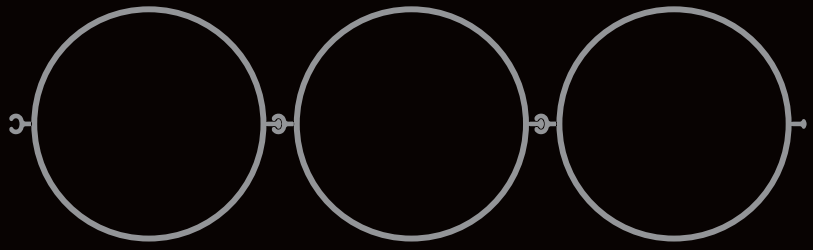
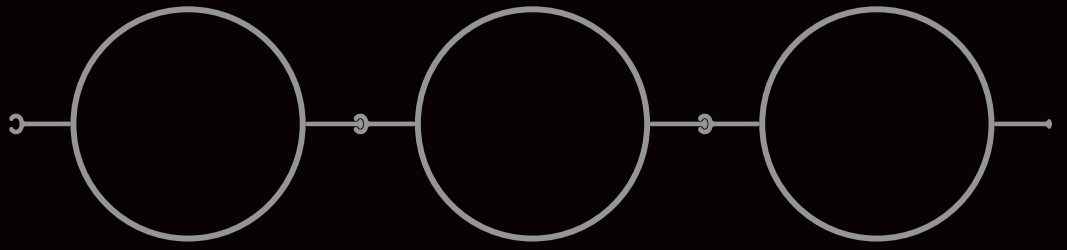
Sheet Pile LLC

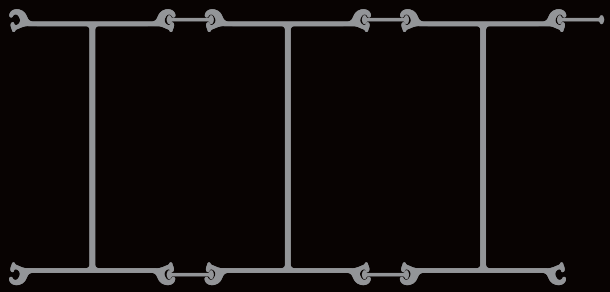
the large black book

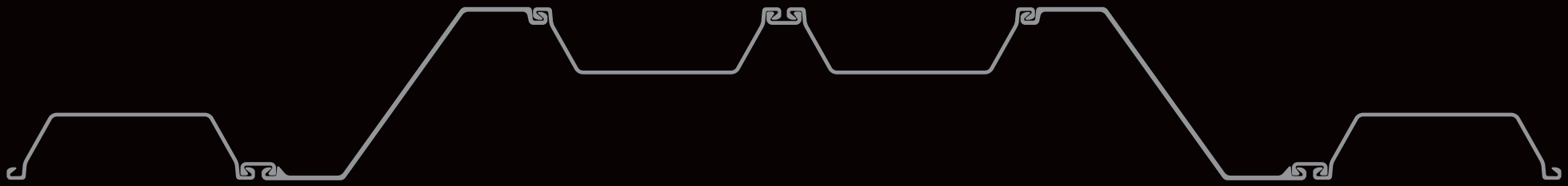
Your guide to sheet pile solutions:

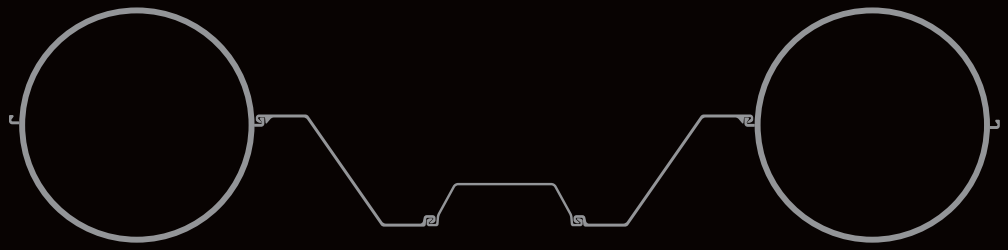
PilePro Connectors | Z-Pile | O-Pile | I-Pile | OZ Pile | IZ Pile | WADIT

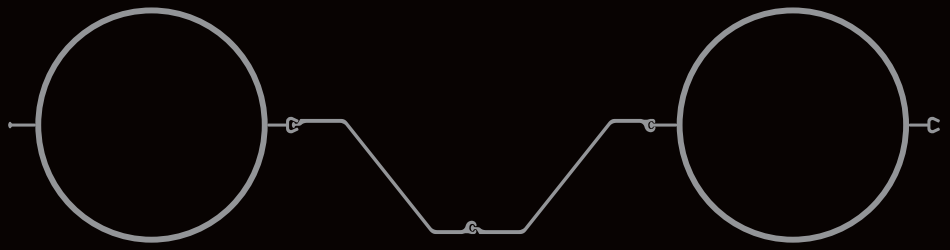












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Sheet Pile

Structures are built from the bottom up, but designed from the top down. This book provides designers, contractors, engineers and other users with information to help enable the selection of the most efficient and cost-effective steel sheet pile sections for for the typical shoring or a bulkhead construction in North America, Europe and beyond.

Introduction

A sheet pile systems' vertically driven sheets of steel create a durable and watertight barrier that resists lateral pressures from soil or water. These interlocking sheet pile walls find application in various settings, including excavation, waterfront structures, flood control projects, and foundation support in urban construction.

Utilizing steel sheet piles for constructing walls offers a superior cost advantage over any concrete alternatives. To illustrate, the 2009 North American Steel Sheet Piling Association (NASSPA) Retaining Wall Comparison study found the cost to build a steel sheet pile wall was approximately $48 per square foot. In contrast, building the same wall with concrete was priced at $110. Thirteen years later in 2022, the estimated cost for the same sheet pile wall increased to $59, whereas the concrete version surged to $214. Upward trends in labor and transport costs over the years have multiplied the cost advantage of steel over concrete. Explore the comprehensive engineering and cost study at sheet-pile.com/resources.

All steel sheet pile producers in the market today offer high quality products at competitive prices. However, we believe the products highlighted in this catalog are the most innovative and efficient solutions available today. For example, Sheet Pile, LLC's Z-Pile system features an increased width per panel compared to alternative Z-shaped sheet pile designs. This enhanced geometry results in an efficiency ratio (determined by dividing the section modulus by the weight) that substantially exceeds that of other sheet pile configurations.

However, rather than discuss the superiority of one type, brand, or configuration of steel sheet pile over another, this Large Black Book is designed to offer you objective data and facts about Sheet Pile, LLC's products. This catalog is meant to provide designers, contractors, engineers and others with the information necessary to determine the most efficient and cost-effective steel sheet pile sections for any job.

Sheet Pile, LLC is a US company and your trusted sheet pile partner, offering streamlined solutions with fast quotes and endless configurations. We are the exclusive supplier of PilePro® Connectors, Z-Pile CF®, Z-Pile HR® O-Pile®, I-Pile®, OZ Pile, IZ Pile wall systems, and WADIT® certified sealant. Our sheet pile and sealants are readily available for installation anywhere across the globe.

Contact us, and we will help determine the best sheet pile configuration to fit your needs.

How to Use This Book

The following pages along with our website at sheet-pile.com will enable you to select the optimum metal sheet pile sections. This book contains examples of many different sheet pile sections, but there maybe near infinite amount of O-Pile (and other systems options) so we show a representative sampling.

If you have a particular part or specific sections you want to utilize that are not in the book we can always quickly make a designs for you using these parts. The contents is comprehensive guide, but does not contain every possible option at our disposal.

If you need additional product data, or information more specific to your particular project, please call toll free:
866.666.PILE or +1.512.243.1228 or email info@sheet-pile.com.

How to Specify

1. Start with Z-Pile: Flexibility and Efficiency

Multiple Z-Pile sections and configurations provide the most economical solutions typically up to the 113.6 in^3/ft^2 (6105 cm^3/m).
After which point you may want to consider an OZ Pile, IZ Pile, I-Pile® or O-Pile® system.

2. Grow into O-Pile®, OZ Pile or IZ Pile

There are occasions when a Z-Pile system is not sufficiently strong to satisfy the calculated bending moment, or may not be able to be installed in the given ground condition effectively. When this is the case, the designer has many available options using the proven ball and socket system with an O-Pile®.

When Should I Consider Using an O-Pile® System?

- When you need a sheet pile section that is stronger than a 113.6 in^3/ft^2 (6105 cm^3/m) level under normal soil conditions.
- When you need to install a wall into rock or cobbles or glacial till and you cannot install a Z-Pile.
- O-Pile is more corrosion resistant than a Z-Pile, OZ Pile or IZ Pile system. See the O-Pile® section for more details.

CF
COLD FORMED

Z-Pile CF®

sheet-pile.com/z-pile

Position 1

Z-Pile CF®

CF
COLD FORMED

Configuration A

Wadit® Factory Installed

Comes tack-welded and driven as one unit.

SECTION NAME:

18 - 2146

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible Z-Pile solutions.
Please configure your own system on sheet-pile.com/z-pile

Sheet Pile LLC is the owner and assignee of numerous patents and IP, that may be related to this sheet pile solution.

Z-Pile CF®

sheet-pile.com/z-pile

COLD FORMED

	Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
							Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
			in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
01	16-2146	Z	84.5	24.4	0.31	0.31	35.55	121	2508.8	208.5	18.64	9.32	17.2	356.3	29.6	A
02			2146.0	621.0	8.0	8.0	229.36	180.0	104425.4	3415.9	5.68	2.84	83.9	48660.5	1591.8	
03	18-2146	Z	84.5	24.5	0.31	0.31	39.11	133.1	2856.5	236.1	18.64	9.32	18.9	405.7	33.5	A
04			2146.0	622.0	8.0	8.0	252.33	198.1	118896.9	3868.6	5.68	2.84	92.3	55404.0	1802.7	
05	19-2146	Z	84.5	24.5	0.33	0.33	40.7	138.5	2976.4	245.5	18.64	9.32	19.7	422.7	34.9	A
06			2146.0	622.0	8.3	8.3	262.6	206.1	123885.5	4022.3	5.68	2.84	96.1	57728.6	1874.3	
07	20-2146	Z	84.5	24.5	0.34	0.34	42.65	145.1	3118.9	257.2	18.64	9.32	20.6	443.0	36.5	A
08			2146.0	622.0	8.7	8.7	275.13	216.0	129819.3	4214.9	5.68	2.84	100.6	60493.6	1964.1	

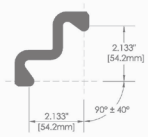
	Section	Solution Type	Bending Moment									Configuration
			g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP	
			k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	
01	16-2146	Z	123.4	136	148	160.4	96.6	127	139.6	153.9	164.6	A
02			548.7	604.9	658.5	713.4	429.8	565.1	620.8	684.5	732.2	
03	18-2146	Z	139.7	154	167.7	181.6	109.4	143.9	158.1	174.3	186.4	A
04			621.5	685	745.7	807.9	486.7	640	703.1	775.2	829.2	
05	19-2146	Z	145.3	160.1	174.3	188.8	113.8	149.6	164.3	181.2	193.8	A
06			646.1	712.2	775.4	840	506.1	665.4	731	806	862.2	
07	20-2146	Z	152.2	167.8	182.7	197.9	119.2	156.7	172.2	189.9	203.1	A
08			677.1	746.3	812.5	880.2	530.3	697.2	766	844.6	903.5	

LARSSEN
HOT ROLLED

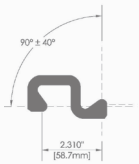
Z-Pile HR®

sheet-pile.com/z-pile

PilePro® Sheet Pile Connectors



HR® Omega



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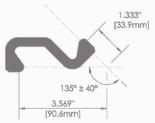
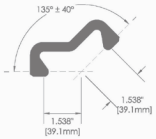
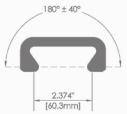


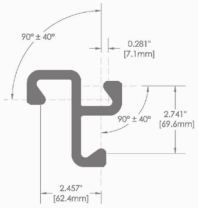
HR® Colt



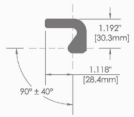
HR® 135



HR® 180



HR® Tee

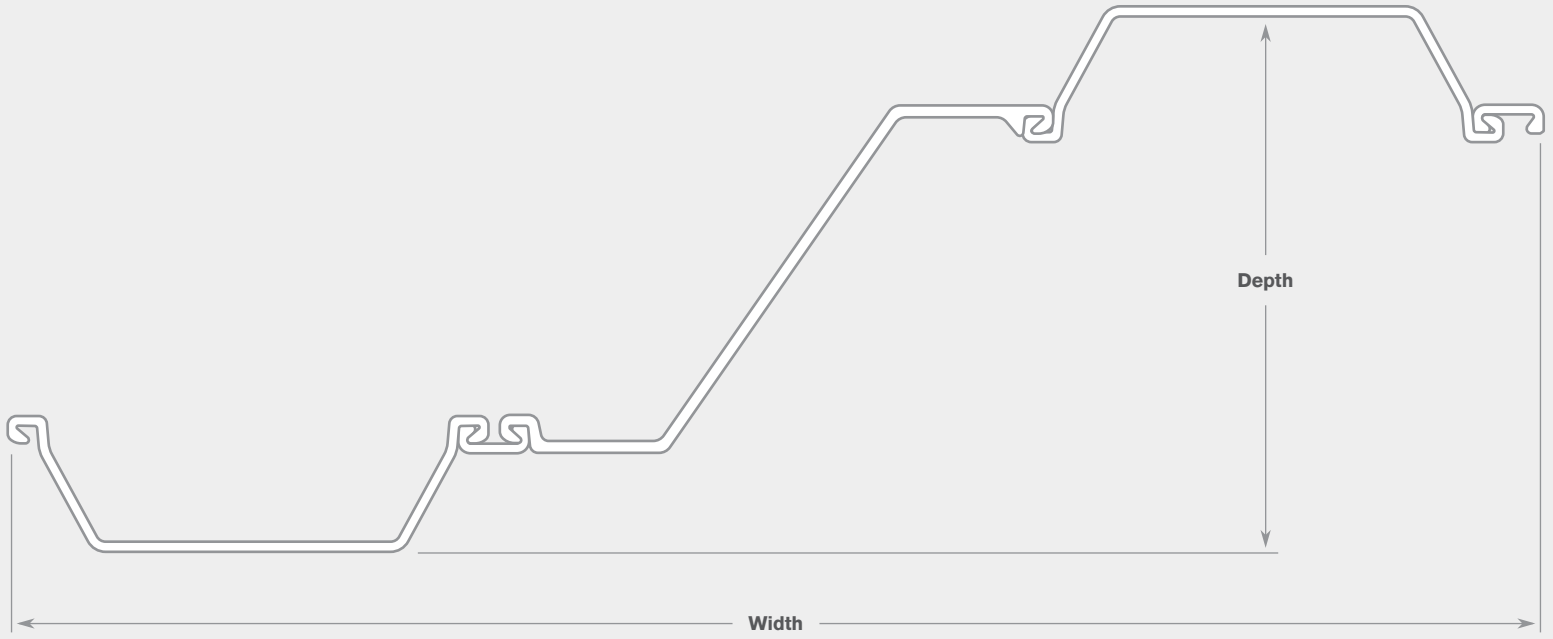


C9®

Z-Pile HR®

LARSSEN
HOT ROLLED

Configuration A



SECTION NAME:

42 - 2010

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible Z-Pile solutions.
Please configure your own system on sheet-pile.com/z-pile

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Z-Pile HR®

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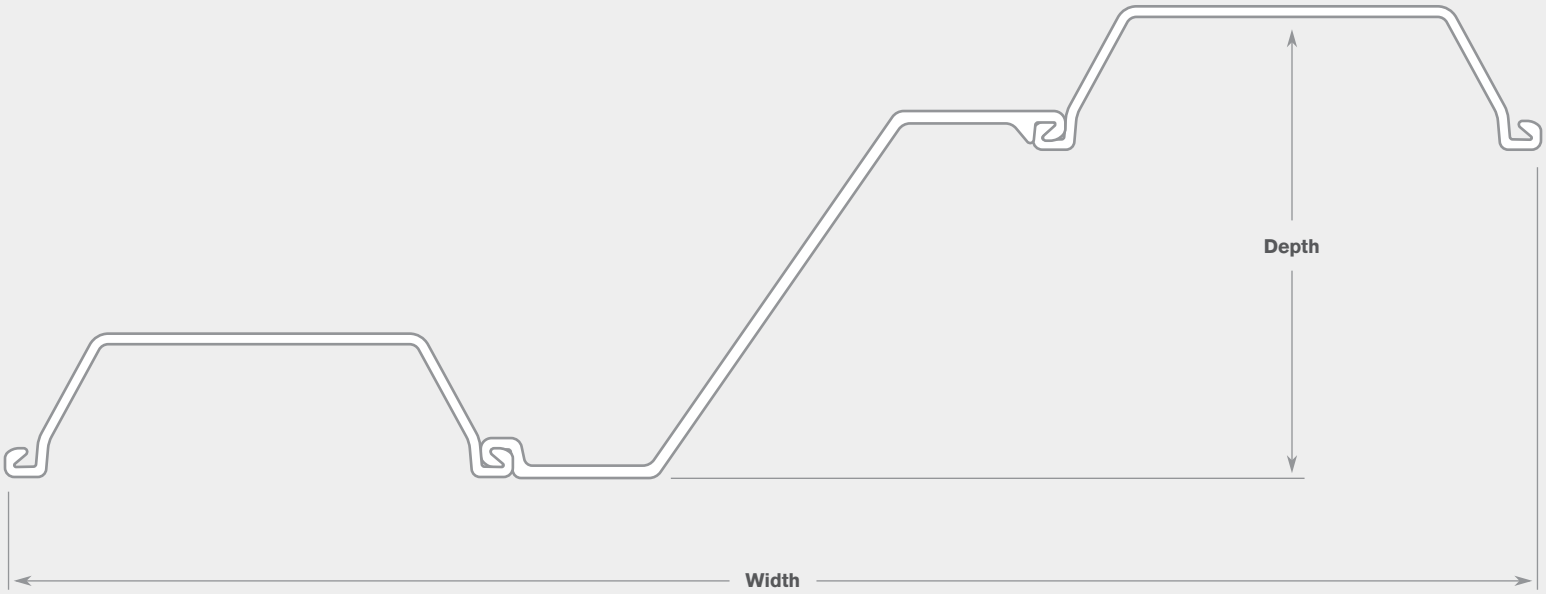
Configuration B



SECTION NAME:

21 - 1900

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

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Z-Pile HR®

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Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
						Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
		in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
10-1970	Z	77.6	17.8	0.3	0.3	32.67	111.2	1369.7	114.1	16.57	8.28	17.2	211.9	17.6	B
		1970.0	453.0	8.5	8.6	210.8	165.5	57012.0	1869.2	5.05	2.52	84.0	28940.1	948.9	
12-1900	Z	74.8	20.9	0.3	0.3	32.75	111.5	1950.5	144.2	16.6	8.3	17.9	312.9	23.1	B
		1900.0	530.0	8.4	8.5	211.3	165.9	81187.0	2363.6	5.06	2.53	87.3	42730.0	1244.0	
12-1970	Z	77.6	18.8	0.4	0.4	34.02	115.8	1290.0	149.6	16.57	8.28	17.9	199.6	23.1	B
		1970.0	477.0	9.5	9.6	219.47	172.3	53694.2	2451.8	5.05	2.52	87.5	27255.9	1244.6	
13-1970	Z	77.6	18.8	0.4	0.4	36.8	125.2	1399.8	160.2	16.57	8.28	19.4	216.6	24.8	B
		1970.0	477.0	9.5	9.6	237.44	186.4	58266.1	2624.6	5.05	2.52	94.6	29576.7	1332.3	
15-2080	Z	81.9	24.1	0.4	0.4	38.25	130.2	2326.7	193.8	17.55	8.78	19.1	341.0	28.4	A
		2080.0	611.0	9.5	9.6	246.8	193.7	96845.6	3175.3	5.35	2.68	93.1	46560.4	1526.6	
15-1970	Z	77.6	19.0	0.4	0.4	42.5	144.6	1694.7	184.7	17.39	8.69	22.4	262.2	28.6	B
		1970.0	482.0	9.5	9.6	274.2	215.2	70539.9	3027.5	5.3	2.65	109.3	35807.1	1536.8	
16-1900	Z	74.8	21.8	0.4	0.4	34.1	116.0	1878.8	185.7	16.6	8.3	18.6	301.4	29.8	B
		1900.0	553.0	9.5	9.6	219.98	172.7	78200.9	3042.8	5.06	2.53	90.9	41158.4	1601.5	
17-2080	Z	81.9	24.0	0.4	0.4	41.04	139.7	2570.7	214.1	17.55	8.78	20.5	376.7	31.4	A
		2080.0	610.0	9.5	9.6	264.78	207.9	107000.0	3508.2	5.35	2.68	99.9	51442.3	1686.6	
17-2010	Z	79.1	22.2	0.3	0.3	39.13	133.2	2547.3	211.5	17.55	8.78	20.2	386.3	32.1	A
		2010.0	563.0	8.5	8.6	252.47	198.2	106027.5	3465.2	5.35	2.68	98.6	52750.0	1724.0	
18-1900	Z	74.8	21.8	0.4	0.4	37.75	128.5	2100.0	205.9	16.6	8.3	20.6	336.9	33.0	B
		1900.0	553.0	9.5	9.6	243.57	191.2	87408.0	3374.8	5.06	2.53	100.6	46004.2	1776.2	
19-2010	Z	79.1	27.0	0.4	0.4	38.33	130.5	3195.5	236.6	17.59	8.79	19.8	484.6	35.9	A
		2010.0	686.0	9.5	9.6	247.32	194.1	133004.7	3877.7	5.36	2.68	96.6	66171.5	1929.2	
20-1900	Z	74.8	22.0	0.4	0.4	42.58	144.9	2460.4	230.6	17.42	8.71	23.2	394.7	37.0	B
		1900.0	559.0	9.5	9.6	274.71	215.6	102409.9	3779.0	5.31	2.66	113.5	53899.9	1988.9	
21-2010	Z	79.1	25.2	0.3	0.3	40.2	136.8	3489.5	257.7	17.59	8.79	20.7	529.1	39.1	A
		2010.0	640.0	8.4	8.5	259.38	203.6	145242.6	4223.0	5.36	2.68	101.3	72260.0	2101.0	

Z-Pile HR®

sheet-pile.com/z-pile

LARSSEN | HOT ROLLED

Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
						Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
		in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
21-1900	Z	74.8	23.3	0.5	0.5	41.41	140.9	2660.5	246.6	16.83	6.56	22.6	426.8	39.6	B
		1900.0	592.0	12.2	12.3	267.17	209.7	110736.4	4041.5	5.13	2	110.4	58282.3	2127.1	
21-2080	Z	81.9	24.4	0.4	0.4	46.74	159.1	3321.9	271.3	18.37	9.19	23.3	486.8	39.8	A
		2080.0	621.0	9.5	9.6	301.53	236.7	138268.1	4445.9	5.6	2.8	113.8	66475.0	2137.5	
22-1970	Z	77.6	21.7	0.4	0.4	56.6	192.6	2745.5	258.3	18.37	9.19	29.8	424.8	40.0	B
		1970.0	551.0	9.5	9.6	365.16	286.7	114278.2	4232.5	5.6	2.8	145.5	58009.2	2148.5	
22-2010	Z	79.1	28.5	0.5	0.5	42.86	145.9	3892.8	273.1	17.81	8.91	22.1	590.3	41.4	A
		2010.0	724.0	12.2	12.3	276.53	217.1	162029.0	4475.9	5.43	2.72	108.0	80611.5	2226.8	
23-1900	Z	74.8	24.1	0.4	0.4	48.24	164.2	3094.2	262.9	18.41	9.2	26.3	496.4	42.2	B
		1900.0	611.0	9.5	9.6	311.21	244.3	128791.0	4307.4	5.61	2.8	128.6	67784.7	2267.0	
23-1970	Z	77.6	21.7	0.4	0.4	60.1	204.5	2913.8	278.2	18.83	9.42	31.6	450.8	43.0	B
		1970.0	551.0	9.5	9.6	387.77	304.4	121279.7	4559.4	5.74	2.87	154.5	61563.3	2314.4	
24-1970	Z	77.6	21.7	0.4	0.4	61.85	210.5	3003.8	287.9	18.83	9.42	32.6	464.8	44.5	B
		1970.0	552.0	9.5	9.6	399.01	313.2	125028.9	4718.1	5.74	2.87	159.0	63466.4	2395.0	
24-1900	Z	74.8	23.5	0.5	0.5	47.11	160.3	3129.0	278.9	17.68	8.84	25.7	502.0	44.7	B
		1900.0	596.0	12.2	12.3	303.92	238.6	130238.8	4569.8	5.39	2.7	125.6	68546.7	2405.1	
26-2010	Z	79.1	28.5	0.5	0.5	47.78	162.6	4500.5	315.8	17.81	8.91	24.7	682.5	47.9	A
		2010.0	724.0	12.2	12.3	308.24	242.0	187323.7	5174.7	5.43	2.72	120.4	93195.9	2574.5	
26-1900	Z	74.8	24.7	0.4	0.4	56.68	192.9	3795.1	302.2	18.41	9.2	30.9	608.8	48.5	B
		1900.0	628.0	9.5	9.6	365.67	287.1	157965.9	4951.9	5.61	2.8	151.1	83140.0	2606.3	
27-2010	Z	79.1	27.4	0.4	0.4	46.82	159.3	4478.9	326.9	18.41	9.2	24.2	679.2	49.6	A
		2010.0	697.0	9.5	9.6	302.05	237.1	186424.6	5357.0	5.61	2.8	118.0	92748.6	2665.2	
27-1900	Z	74.8	25.5	0.5	0.5	52.76	179.6	3853.4	314.7	18.67	9.33	28.8	618.2	50.5	B
		1900.0	648.0	12.2	12.3	340.41	267.2	160391.4	5157.3	5.69	2.84	140.6	84416.5	2714.4	
28-2080	Z	81.9	28.5	0.4	0.4	52.39	178.3	4981.3	349.5	19.36	9.68	26.1	729.9	51.2	A
		2080.0	725.0	9.5	9.6	338.03	265.4	207335.5	5727.5	5.9	2.95	127.6	99680.5	2753.6	

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Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
						Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
		in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
28-1900	Z	74.8	24.7	0.4	0.4	61.93	210.7	4153.3	323.6	18.86	9.43	33.8	666.3	51.9	B
		1900.0	628.0	9.5	9.6	399.52	313.6	172873.5	5302.9	5.75	2.88	165.1	90986.0	2791.0	
29-2010	Z	79.1	28.3	0.5	0.6	50.72	172.6	5322.6	353.5	18.64	9.32	26.2	807.1	53.6	A
		2010.0	720.0	12.2	16.1	327.23	256.9	221542.2	5792.8	5.68	2.84	127.8	110220.0	2882.0	
30-2010	Z	79.1	28.9	0.5	0.5	51.35	174.7	5323.9	368.5	18.67	9.33	26.5	807.3	55.9	A
		2010.0	734.0	12.2	12.3	331.26	260.0	221598.7	6038.1	5.69	2.84	129.4	110248.1	3004.0	
31-1900	Z	74.8	26.2	0.5	0.5	61.21	208.3	4684.3	360.5	18.67	9.33	33.4	751.5	57.8	B
		1900.0	665.0	12.2	12.3	394.89	310.0	194975.3	5908.3	5.69	2.84	163.2	102618.6	3109.7	
33-1900	Z	74.8	26.2	0.5	0.5	64.71	220.2	4973.8	381.7	19.13	9.56	35.3	797.9	61.2	B
		1900.0	665.0	12.2	12.3	417.49	327.7	207024.7	6254.5	5.83	2.92	172.5	108960.4	3291.9	
33-2010	Z	79.1	29.6	0.3	0.3	51.55	175.5	6271.0	408.5	19.42	9.71	26.6	950.9	61.9	A
		2010.0	752.6	8.4	8.5	332.61	261.1	261018.6	6693.3	5.92	2.96	129.9	129860.0	3330.0	
34-1900	Z	74.8	26.2	0.5	0.5	66.45	226.2	5114.9	394.9	19.13	9.56	36.3	820.5	63.3	B
		1900.0	666.0	12.2	12.3	428.73	336.6	212898.5	6471.1	5.83	2.92	177.1	112051.9	3405.8	
36-2080	Z	81.9	29.8	0.4	0.4	60.84	207.0	6800.5	457.0	19.36	9.68	30.3	996.5	67.0	A
		2080.0	757.0	9.5	9.6	392.5	308.1	283056.6	7488.3	5.9	2.95	148.1	136084.9	3600.1	
37-2010	Z	79.1	33.0	0.5	0.5	57	194.0	7460.9	452.3	19.65	9.83	29.4	1131.4	68.6	A
		2010.0	838.0	12.2	12.3	367.75	288.7	310547.0	7411.6	5.99	3	143.6	154501.0	3687.4	
38-1900	Z	74.8	27.8	0.4	0.6	67.83	230.8	6127.0	441.5	19.55	9.78	37.0	982.9	70.8	B
		1900.0	705.0	11.2	15.1	437.58	343.5	255023.4	7234.7	5.96	2.98	180.8	134222.8	3807.7	
39-1900	Z	74.8	27.8	0.5	0.6	69.36	236.0	6238.9	448.9	19.55	9.78	37.9	1000.9	72.0	B
		1900.0	706.0	12.2	16.1	447.47	351.3	259682.5	7356.4	5.96	2.98	184.9	136675.0	3871.8	
39-2080	Z	81.9	29.9	0.4	0.4	64.34	219.0	7456.8	499.7	19.82	9.91	32.1	1092.7	73.2	A
		2080.0	759.0	9.5	9.6	415.11	325.9	310377.0	8189.4	6.04	3.02	156.7	149219.7	3937.2	
40-1900	Z	74.8	27.8	0.5	0.6	71.1	242.0	6412.8	461.4	19.55	9.78	38.8	1028.8	74.0	B
		1900.0	706.0	12.2	16.1	458.71	360.1	266921.8	7561.5	5.96	2.98	189.5	140485.1	3979.7	

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Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
						Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
		in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
41-2080	Z	81.9	30.0	0.4	0.4	66.08	224.9	7787.0	520.5	19.82	9.91	33.0	1141.1	76.3	A
		2080.0	761.0	9.5	9.6	426.34	334.7	324121.1	8529.5	6.04	3.02	160.9	155827.4	4100.7	
42-2010	Z	79.1	30.9	0.3	0.3	59.33	201.9	8450.8	515.4	19.42	9.71	30.6	1281.5	78.2	A
		2010.0	785.0	8.4	8.5	382.8	300.5	351750.0	8446.0	5.92	2.96	149.5	175000.0	4202.0	
44-2010	Z	79.1	32.8	0.4	0.4	62.41	212.4	8764.7	535.2	19.39	9.69	32.2	1329.1	81.2	A
		2010.0	833.0	9.5	9.6	402.68	316.1	364812.9	8769.5	5.91	2.96	157.3	181499.0	4363.0	
47-2010	Z	79.1	32.8	0.4	0.4	64.42	219.2	9434.1	574.6	19.85	9.92	33.2	1430.6	87.1	A
		2010.0	833.0	9.5	9.6	415.62	326.3	392677.2	9416.7	6.05	3.02	162.3	195361.8	4684.9	
49-2010	Z	79.1	32.9	0.4	0.4	66.16	225.2	9854.6	598.8	19.85	9.92	34.1	1494.4	90.8	A
		2010.0	836.0	9.5	9.6	426.86	335.1	410179.5	9812.9	6.05	3.02	166.7	204069.4	4882.0	
51-2010	Z	79.1	34.3	0.5	0.5	68.95	234.6	10723.7	626.2	20.11	10.06	35.6	1626.2	95.0	A
		2010.0	871.0	12.2	12.3	444.83	349.2	446353.6	10261.0	6.13	3.06	173.7	222066.5	5105.0	
53-2010	Z	79.1	34.4	0.5	0.5	70.69	240.6	11194.7	650.7	20.11	10.06	36.5	1697.6	98.7	A
		2010.0	874.0	12.2	12.3	456.07	358.0	465959.2	10662.7	6.13	3.06	178.1	231820.5	5304.8	
54-2010	Z	79.1	34.2	0.6	0.9	77.75	264.6	11851.9	658.7	20.01	10.01	40.1	1797.2	99.9	A
		2010.0	869.0	16.0	23.1	501.6	393.8	493314.3	10793.7	6.1	3.05	195.9	245430.0	5370.0	
56-2010	Z	79.1	35.9	0.4	0.6	72.06	245.2	12316.3	687.5	20.54	10.27	37.2	1867.7	104.3	A
		2010.0	911.0	11.2	15.1	464.92	365.0	512644.7	11266.9	6.26	3.13	181.6	255047.1	5605.4	
57-2010	Z	79.1	35.9	0.5	0.6	73.6	250.5	12404.3	692.5	20.54	10.27	38.0	1881.0	105.0	A
		2010.0	911.0	12.2	16.1	474.81	372.7	516306.0	11347.4	6.26	3.13	185.4	256868.6	5645.5	
58-2010	Z	79.1	35.9	0.4	0.6	73.8	251.2	12803.8	713.2	20.54	10.27	38.1	1941.6	108.2	A
		2010.0	913.0	11.2	15.1	476.16	373.8	532935.5	11687.2	6.26	3.13	186.0	265142.1	5814.5	
59-2010	Z	79.1	36.0	0.5	0.6	75.34	256.4	12908.6	717.5	20.54	10.27	38.9	1957.5	108.8	A
		2010.0	914.0	12.2	16.1	486.05	381.5	537296.5	11757.0	6.26	3.13	189.8	267311.7	5849.3	
60-2010	Z	79.1	34.3	0.6	0.8	82.07	279.3	13237.9	735.8	20.54	10.27	42.4	2007.4	111.6	A
		2010.0	870.0	16.0	20.1	529.51	415.7	551001.3	12056.9	6.26	3.13	206.8	274130.0	5998.5	

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	Section	Solution Type	Width	Depth	Web Thickness	Flange Thickness	Per Panel Section						Per Unit of Wall			Configuration
							Cross Section Area	Panel Weight	Panel Moment of Inertia	Panel Section Modulus	Coating Area	Coating Area Waterside	Weight	Moment of Intertia	Section Modulus	
			in (mm)	in (mm)	in (mm)	in (mm)	in^2 (cm^2)	lb/ft (kg/m)	in^4 (cm^4)	in^3 (cm^3)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	in^3/ft (cm^3/m)	
01	61-2010	Z	79.1	34.4	0.6	0.9	83.66	284.7	13531.5	748.8	20.47	10.24	43.2	2051.9	113.5	A
02			2010.0	873.0	16.0	23.1	539.76	423.7	563222.1	12270.6	6.24	3.12	210.8	280210.0	6104.8	

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Section	Solution Type	Bending Moment									Configuration
		g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP	
		k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	
10-1970	Z	73.5	81.1	88.2	95.6	57.6	75.7	83.2	91.7	98.1	B
		327.1	360.6	392.5	425.2	256.2	336.8	370.1	408	436.5	
12-1900	Z	96.4	106.3	115.7	125.3	75.5	99.3	109.1	120.3	128.6	B
		428.9	472.7	514.6	557.5	335.9	441.6	485.2	534.9	572.2	
12-1970	Z	96.5	106.3	115.7	125.4	75.5	99.3	109.1	120.3	128.7	B
		429	472.9	514.9	557.8	336	441.8	485.4	535.2	572.5	
13-1970	Z	103.3	113.8	123.9	134.2	80.9	106.3	116.8	128.8	137.8	B
		459.3	506.3	551.1	597.1	359.7	473	519.6	572.9	612.9	
15-2080	Z	118.3	130.4	142	153.8	92.7	121.8	133.8	147.6	157.9	A
		526.3	580.1	631.5	684.1	412.2	541.9	595.4	656.4	702.2	
15-1970	Z	119.1	131.3	142.9	154.8	93.3	122.6	134.7	148.6	158.9	B
		529.8	584	635.7	688.7	414.9	545.6	599.3	660.8	706.9	
16-1900	Z	124.1	136.8	148.9	161.4	97.2	127.8	140.4	154.8	165.6	B
		552.1	608.6	662.5	717.7	432.4	568.5	624.6	688.6	736.7	
17-2080	Z	130.7	144.1	156.9	169.9	102.4	134.6	147.9	163	174.4	A
		581.4	640.9	697.7	755.9	455.4	598.8	657.8	725.3	775.9	
17-2010	Z	133.6	147.3	160.3	173.7	104.6	137.6	151.2	166.7	178.3	A
		594.3	655.1	713.2	772.6	465.5	612	672.4	741.3	793	
18-1900	Z	137.7	151.7	165.2	179	107.8	141.8	155.7	171.7	183.7	B
		612.3	675	734.8	796	479.6	630.6	692.7	763.8	817.1	
19-2010	Z	149.5	164.8	179.4	194.4	117.1	154	169.1	186.5	199.5	A
		665.1	733.1	798.1	864.6	520.9	684.9	752.4	829.6	887.4	
20-1900	Z	154.1	169.9	185	200.4	120.7	158.7	174.4	192.3	205.7	B
		685.7	755.8	822.8	891.4	537	706.1	775.7	855.2	914.9	
21-2010	Z	162.8	179.5	195.4	211.7	127.5	167.7	184.2	203.1	217.3	A
		724.3	798.4	869.2	941.6	567.3	745.9	819.4	903.4	966.5	

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Section	Solution Type	Bending Moment									Configuration
		g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP	
		k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	
21-1900	Z	164.9	181.7	197.8	214.3	129.1	169.8	186.5	205.6	220	B
		733.3	808.3	879.9	953.3	574.3	755.1	829.6	914.6	978.5	
21-2080	Z	165.7	182.6	198.8	215.3	129.7	170.6	187.4	206.6	221	A
		736.9	812.2	884.2	957.9	577.1	758.8	833.6	919.1	983.2	
22-1970	Z	166.5	183.5	199.8	216.5	130.4	171.5	188.4	207.7	222.2	B
		740.7	816.4	888.8	962.9	580.1	762.7	837.9	923.9	988.3	
22-2010	Z	172.6	190.2	207.1	224.4	135.2	177.7	195.2	215.3	230.3	A
		767.7	846.2	921.2	998	601.2	790.5	868.5	957.5	1024.3	
23-1900	Z	175.7	193.7	210.8	228.4	137.6	180.9	198.8	219.2	234.4	B
		781.5	861.5	937.8	1016	612.1	804.8	884.1	974.8	1042.8	
23-1970	Z	179.4	197.7	215.2	233.2	140.5	184.7	202.9	223.7	239.3	B
		797.9	879.5	957.4	1037.2	624.9	821.6	902.6	995.2	1064.6	
24-1970	Z	185.6	204.6	222.7	241.3	145.4	191.1	210	231.5	247.7	B
		825.6	910.1	990.8	1073.3	646.6	850.2	934	1029.8	1101.7	
24-1900	Z	186.4	205.5	223.7	242.3	146	191.9	210.9	232.5	248.7	B
		829.1	914	995	1077.9	649.4	853.8	938	1034.2	1106.4	
26-2010	Z	199.5	219.9	239.4	259.4	156.3	205.5	225.7	248.9	266.2	A
		887.5	978.3	1065	1153.8	695.1	913.9	1004	1107	1184.3	
26-1900	Z	202	222.6	242.4	262.6	158.2	208	228.5	251.9	269.5	B
		898.5	990.4	1078.2	1168	703.7	925.2	1016.4	1120.7	1198.9	
27-2010	Z	206.6	227.7	247.9	268.5	161.8	212.7	233.7	257.6	275.6	A
		918.8	1012.8	1102.5	1194.4	719.6	946.1	1039.4	1146	1226	
27-1900	Z	210.4	231.9	252.4	273.5	164.8	216.6	238	262.4	280.7	B
		935.7	1031.5	1122.9	1216.5	732.9	963.6	1058.6	1167.2	1248.6	
28-2080	Z	213.4	235.2	256.1	277.4	167.1	219.8	241.4	266.2	284.8	A
		949.3	1046.4	1139.1	1234.1	743.5	977.5	1073.9	1184.1	1266.7	

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		g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP	
		k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	
28-1900	Z	216.3	238.4	259.6	281.2	169.4	222.7	244.7	269.8	288.6	B
		962.2	1060.6	1154.6	1250.8	753.6	990.8	1088.5	1200.1	1283.9	
29-2010	Z	223.4	246.2	268	290.4	174.9	230	252.7	278.6	298	A
		993.5	1095.2	1192.2	1291.6	778.1	1023.1	1124	1239.3	1325.7	
30-2010	Z	232.8	256.6	279.4	302.7	182.3	239.7	263.4	290.4	310.7	A
		1035.6	1141.5	1242.7	1346.3	811.1	1066.4	1171.6	1291.7	1381.9	
31-1900	Z	241	265.6	289.2	313.3	188.8	248.2	272.6	300.6	321.6	B
		1072	1181.7	1286.4	1393.6	839.6	1103.9	1212.8	1337.2	1430.4	
33-1900	Z	255.1	281.2	306.1	331.7	199.8	262.7	288.6	318.2	340.4	B
		1134.8	1250.9	1361.8	1475.3	888.8	1168.6	1283.8	1415.5	1514.3	
33-2010	Z	258.1	284.5	309.7	335.5	202.1	265.8	292	321.9	344.4	A
		1148	1265.4	1377.6	1492.4	899.1	1182.1	1298.7	1431.9	1531.8	
34-1900	Z	264	291	316.7	343.1	206.7	271.8	298.6	329.2	352.2	B
		1174.1	1294.2	1408.9	1526.4	919.6	1209.1	1328.3	1464.5	1566.7	
36-2080	Z	279	307.5	334.8	362.7	218.5	287.3	315.6	348	372.3	A
		1241.1	1368	1489.3	1613.4	972	1278	1404.1	1548.1	1656.1	
37-2010	Z	285.8	315	342.9	371.5	223.8	294.3	323.3	356.5	381.3	A
		1271.2	1401.2	1525.4	1652.5	995.6	1309	1438.1	1585.6	1696.2	
38-1900	Z	295.1	325.3	354.1	383.6	231.1	303.9	333.8	368.1	393.8	B
		1312.7	1446.9	1575.2	1706.5	1028.1	1351.7	1485	1637.3	1751.6	
39-1900	Z	300.1	330.8	360.1	390.1	235	309	339.5	374.3	400.4	B
		1334.8	1471.3	1601.7	1735.2	1045.4	1374.5	1510	1664.9	1781	
39-2080	Z	305.1	336.3	366.2	396.7	239	314.2	345.2	380.6	407.2	A
		1357.3	1496.1	1628.8	1764.5	1063	1397.7	1535.5	1693	1811.1	
40-1900	Z	308.4	340	370.1	401	241.6	317.6	348.9	384.7	411.6	B
		1372	1512.3	1646.4	1783.6	1074.5	1412.8	1552.1	1711.3	1830.7	

Z-Pile HR®

sheet-pile.com/z-pile

LARSSEN | HOT ROLLED

Section	Solution Type	Bending Moment									Configuration
		g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP	
		k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	
41-2080	Z	317.8	350.3	381.4	413.1	248.9	327.3	359.5	396.4	424.1	A
		1413.7	1558.3	1696.4	1837.8	1107.2	1455.8	1599.3	1763.3	1886.3	
42-2010	Z	325.7	359	390.8	423.4	255.1	335.4	368.4	406.2	434.5	A
		1448.6	1596.8	1738.3	1883.2	1134.5	1491.7	1638.8	1806.9	1932.9	
44-2010	Z	338.1	372.7	405.8	439.6	264.8	348.2	382.5	421.8	451.2	A
		1504.1	1657.9	1804.9	1955.3	1178	1548.8	1701.6	1876.1	2007	
47-2010	Z	363.1	400.2	435.7	472	284.4	373.9	410.8	452.9	484.5	A
		1615.1	1780.3	1938.1	2099.6	1264.9	1663.2	1827.1	2014.5	2155.1	
49-2010	Z	378.4	417.1	454	491.9	296.3	389.6	428	471.9	504.9	A
		1683	1855.2	2019.6	2187.9	1318.2	1733.1	1904	2099.3	2245.7	
51-2010	Z	395.6	436.1	474.8	514.3	309.9	407.4	447.6	493.5	527.9	A
		1759.9	1939.9	2111.9	2287.8	1378.3	1812.3	1990.9	2195.1	2348.3	
53-2010	Z	411.1	453.2	493.3	534.5	322	423.4	465.1	512.8	548.6	A
		1828.8	2015.8	2194.5	2377.4	1432.3	1883.2	2068.9	2281.1	2440.2	
54-2010	Z	416.2	458.7	499.4	541	326	428.6	470.8	519.1	555.3	A
		1851.2	2040.6	2221.5	2406.6	1449.9	1906.4	2094.3	2309.1	2470.2	
56-2010	Z	434.4	478.9	521.3	564.7	340.2	447.4	491.5	541.9	579.7	A
		1932.4	2130.1	2318.9	2512.1	1513.5	1989.9	2186.1	2410.3	2578.5	
57-2010	Z	437.5	482.3	525	568.8	342.7	450.5	495	545.7	583.8	A
		1946.2	2145.3	2335.4	2530.1	1524.3	2004.1	2201.7	2427.5	2596.9	
58-2010	Z	450.6	496.7	540.8	585.8	352.9	464	509.8	562.1	601.3	A
		2004.5	2209.5	2405.4	2605.8	1569.9	2064.2	2267.7	2500.2	2674.7	
59-2010	Z	453.3	499.7	544	589.3	355	466.8	512.8	565.4	604.9	A
		2016.5	2222.7	2419.8	2621.4	1579.3	2076.5	2281.2	2515.2	2690.7	
60-2010	Z	464.9	512.4	557.9	604.3	364.1	478.7	525.9	579.9	620.3	A
		2067.9	2279.4	2481.5	2688.3	1619.6	2129.5	2339.4	2579.3	2759.3	

Z-Pile HR®

sheet-pile.com/z-pile

LARSSEN | HOT ROLLED

	Section	Solution Type	Bending Moment									Configuration	
			g50	g55	g60	g65	S 270 GP	S 355 GP	S 390 GP	S 430 GP	S 460 GP		
			k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)	k·ft/ft (kN·m/m)		
01	61-2010	Z	473.1	521.5	567.7	615.1	370.6	487.2	535.2	590.1	631.3	A	01
02			2104.6	2319.8	2525.5	2735.9	1648.3	2167.2	2380.9	2625.1	2808.2		02

About O-Pile®

The Certified O-Pile® System is an innovative and rapidly growing construction method that use pipes to create foundations, barriers, and retaining walls. The system uses steel pipes with welded PilePro® connectors to form a continuous pipe sheet pile wall. This approach offers a cost-effective solution with exceptional strength and durability.

There are three key reasons engineers and designers often prefer the O-Pile® system over other sheet pile or concrete options:

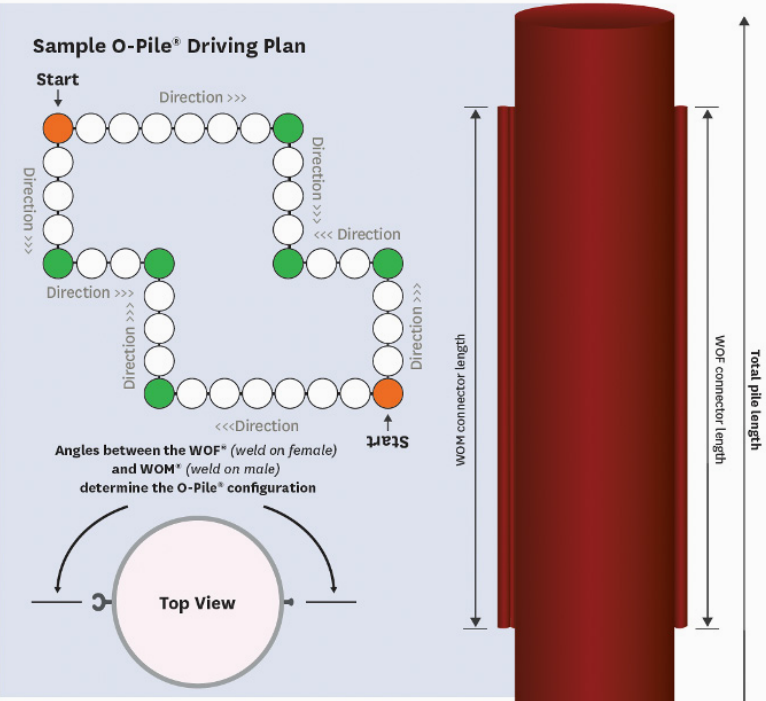
- O-Pile® systems offer superior load-bearing geometry, resulting in a higher strength-to-weight ratio and impressive section modulus values, making them more effective at resisting high bending moments.
- The surcharge capacity of O-Pile® is typically much higher than that of combined OZ and IZ sheet piles, enabling O-Pile® systems to support greater vertical forces while minimizing deflection.
- The interlocking capacity of the O-Pile® system is exceptionally robust, with testing showing strength of over 19 kips/in (3400 kN/m). See **sheet-pile/o-pile.com** for details.

O-Pile® systems are stronger, more cost-effective, and easier to install compared to other combined wall sheet pile systems such as an OZ (made with pipes and z sheet pile) or an IZ (made with I-Beams and Z sheet pile.)

Unlike the limited number of factories that produce Z- and U-shaped sheet piles, pipe manufacturing facilities are widespread globally. As a result, we can most often source locally produced pipes to create your Certified O-Pile® system, eliminating the added costs of transportation and importation fees.

The Certified O-Pile® System

A Certified O-Pile® System guarantees the authenticity and integrity of the O-Pile® plaque. It ensures the components meet the high-quality standards of all Sheet Pile LLC products and benefit from the expertise and professionalism of the brand's global network of specialists. All certified systems include test reports with an official seal, confirming their authenticity at the time of purchase and ensuring proper functionality. Additionally, you are covered by an international product warranty that guarantees load-bearing capacity, corrosion resistance, and connector interlocking performance.



Whether you're driving into pure rock or building a port or both, as your engineering partner, we will help you pick from O-Pile® and/or our branded systems (O-Pile®: DTH and O-Pile®: Mariner) and services (O-Pile®: Ambulance) to ensure you meet your specific project needs.

Certified O-Pile® systems also come with patent and intellectual property protection against infringement claims from others.

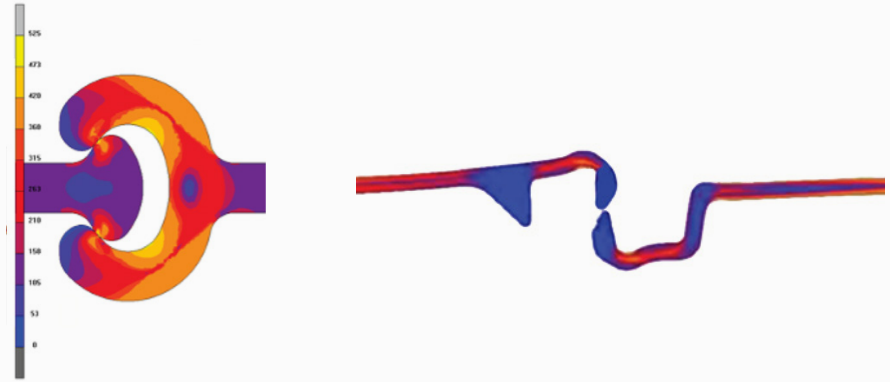
O-Pile® Attributes

1. Bending Moment Capacity (BMC)

O-Pile® systems typically have a higher strength to weight ratio when compared combined sheet pile walls as they can be made using high strength coiled steel, which exceeds the capabilities of hot rolled sheet pile, and allows for a larger Bending Moment Capacity. For example, O-Pile® is available in X80 to provide 80,000 yield strength, whereas hot rolled sheet piling is limited to less than 65,000 and typically uses steel with a yield strength of 50,000. The selection of the steel grade has a marked impact on the structural resistance of the pile wall. Selecting stronger steel grades such as X70 or X80 often allow for the use of piles with reduced diameters and wall thickness.

2. Strong Efficient Connection.

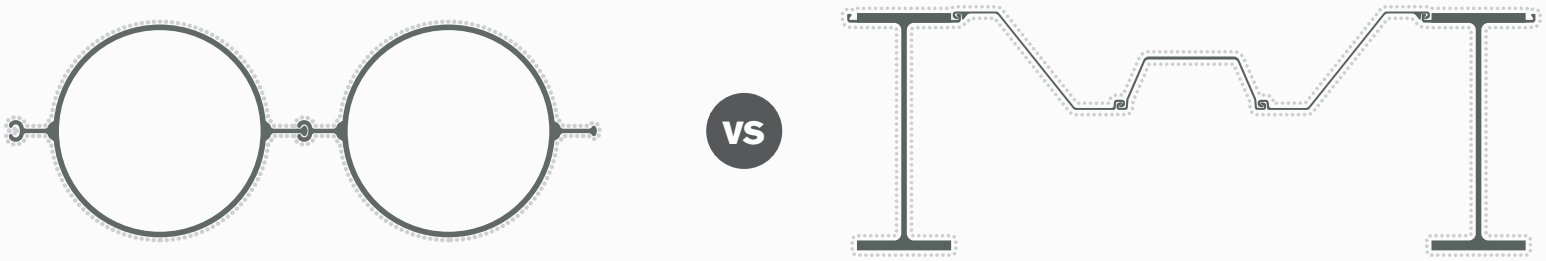
PilePro Connectors: WOM (weld on male) and WOF (weld on female) have an interlocking strength of 19.5 kips/inch (3418 kN/m); Figure 1 shows the high pull-out resistance of the connection, which is more than 4 times stronger than typical Larssen hot rolled sheet pile.



A WOM/WOF® has a high pull out capacity of 19.5 kips/inch (3418 kN/m) compared to a Larssen 4.57 kips/inch (801 kN/m).

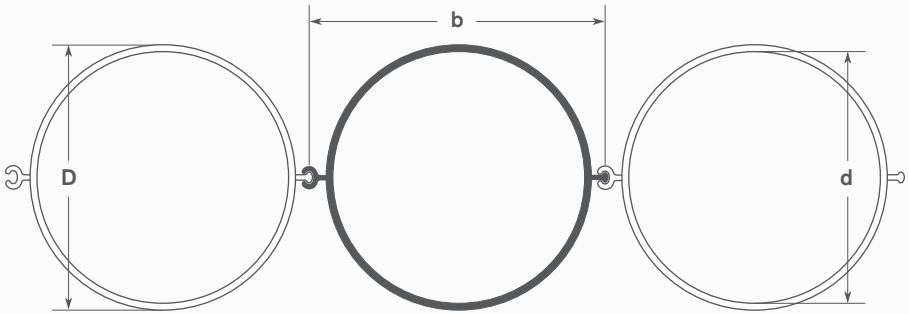
3. Superior Geometry for Durability

The geometry of O-Pile® results in minimal exposed surfaces, which presents distinct advantages over other sheet pile types. The interior of the pipe can be either capped or filled with concrete to prevent interior corrosion, leaving only the exterior face exposed to potentially corrosive elements. This minimal amount of surface area requiring the application of corrosion protection can result in a notable cost savings. Figure 2 illustrates the contrasting corrosion exposure between beam king pile and O-Pile®.



4. Exceptional Strength

O-Pile® systems do not account for the load capacity of the joining connectors, allowing them to be separately calculated for strength, with the full thickness considered sacrificial.



$$Jy = \frac{\pi}{64} \times \frac{D^4 - d^4}{b}$$

$$Wy = \frac{Jy \times 2}{b \times D}$$

$$A = \frac{\pi}{4} \times (D^2 - d^2)$$

$$G_{pipe} = A \times 0.785$$

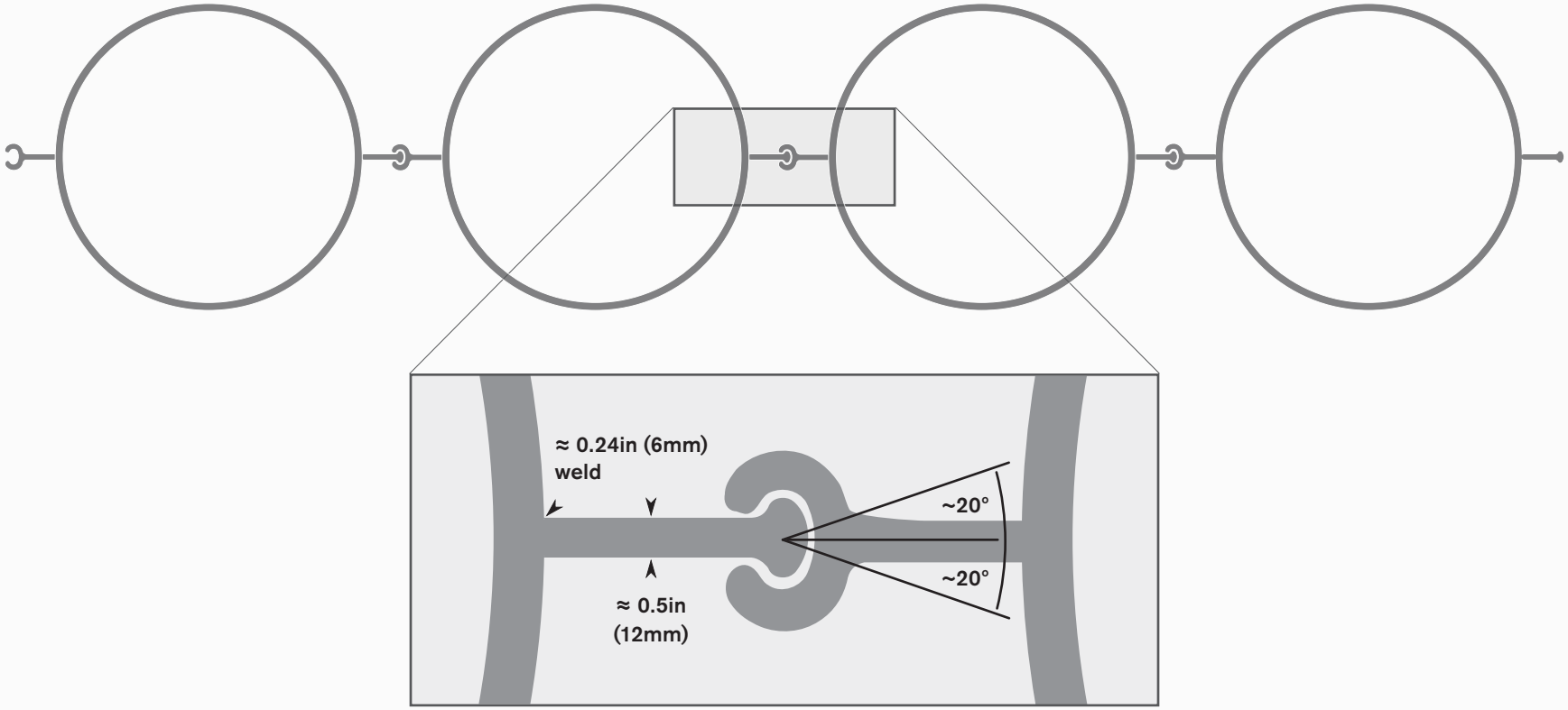
$$G = \frac{G_{pipe} + 12.5 + 11.2}{b}$$

WOM = 12.5 kg/m

WOF = 11.2 kg/m

5. Positional Flexibility

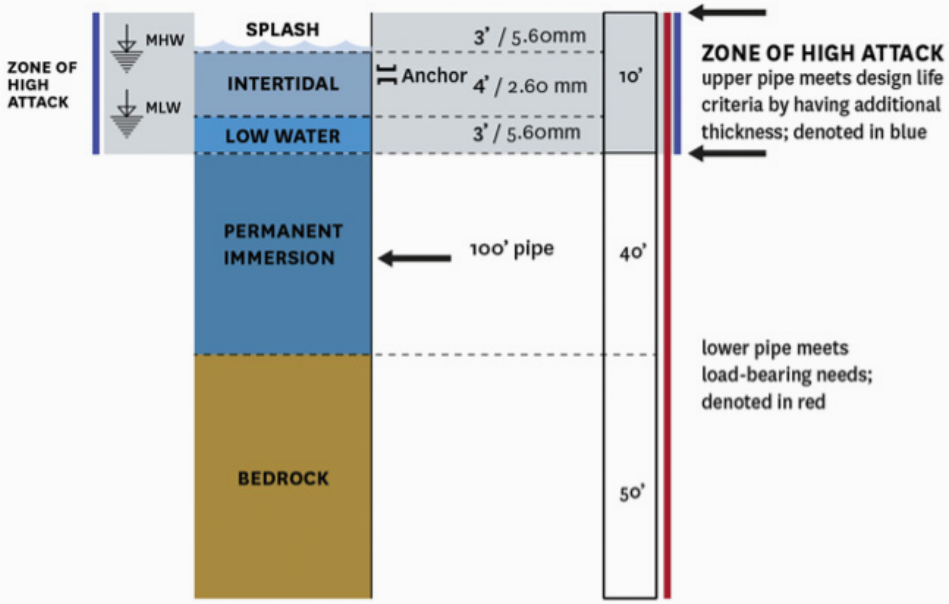
Each WOF/WOM connection provides 20 degrees of rotation to ease placement.



6. Variable Pipe Thickness

O-Pile® offers adjustable pipe thickness, enabling you to customize each pipe with the thickness needed to match your structural load and durability requirements, all while maintaining optimal safety. The ability to adjust thickness as needed—adding where necessary and reducing where not—ensures the most efficient and cost-effective use of steel. Varying the pipe thickness of O-Pile® targets design life and the use of sacrificial thickness exactly where you need it—in the "Zone of High Attack."

For example, with a 100' pipe, the thickness of the upper 10' of pipe (zone of high attack) can be increased to stay well within the corrosion allowance, while the bottom 90' of the pipe can be dialed-down to meet the load bearing needs (see figure below). Leveraging O-Pile®'s variable thickness can also eliminate the need for additional coatings, special steel grades, or cathodic protection.



7. Ease of Installation

Installing O-Pile® is often less challenging than installing than with an OZ or IZ combined sheet pile because O-Pile®'s are supported throughout the process. Installation using WOF/WOM connections are simplified by using a template and the panel installation method. The installation of the O-Pile® section is similar to driving Z or U type sheet pile template. At no stage is there a pipe pile entirely unsupported throughout its length as it is driven to grade. Each pipe is supported by adjacent pipes with a small lead ahead of the rest, ensuring accurate wall alignment.

8. O-Pile® paired with WADIT System = Watertight wall

WADIT is the globally proven sheet pile interlock sealant. WADIT (short for WASSERDICHT, German for waterproof) is an environmentally friendly sealant that was developed to deliver robust water-stopping protection. WADIT is available for use anywhere with any type of sheet pile, including O-Pile®. The WADIT system can be utilized before driving sheet pile, in the middle interlock of already paired sheet pile, and after the sheet pile has already been installed.

The Certified O-Pile® system is always delivered with WADIT sealant applied in the WOF, serving as a corrosion inhibitor within the connecting elements.

9. O-Pile®: DTH (Down the Hole) Drilling

A Certified O-Pile®: DTH system pairs the superior quality of O-Pile® with state-of-the-art DTH drilling technology, allowing its systems to be driven into any ground or rock strata at levels of productivity not achieved before. With a Certified O-Pile®: DTH system, predictable and quantifiable installation is possible in difficult driving conditions like bed rock or job sites with heavy debris.

The Certified O-Pile®: DTH system is installed with the centric drilling method using ring bits of a larger diameter than standard bits. The ring bit drills a hole larger than the pile to accommodate the WOF/ WOM connectors. Diameter from 10" (323mm) to 42" (914.4mm), ranging from a wide range of diameter pipe can be installed using O-Pile®: DTH.

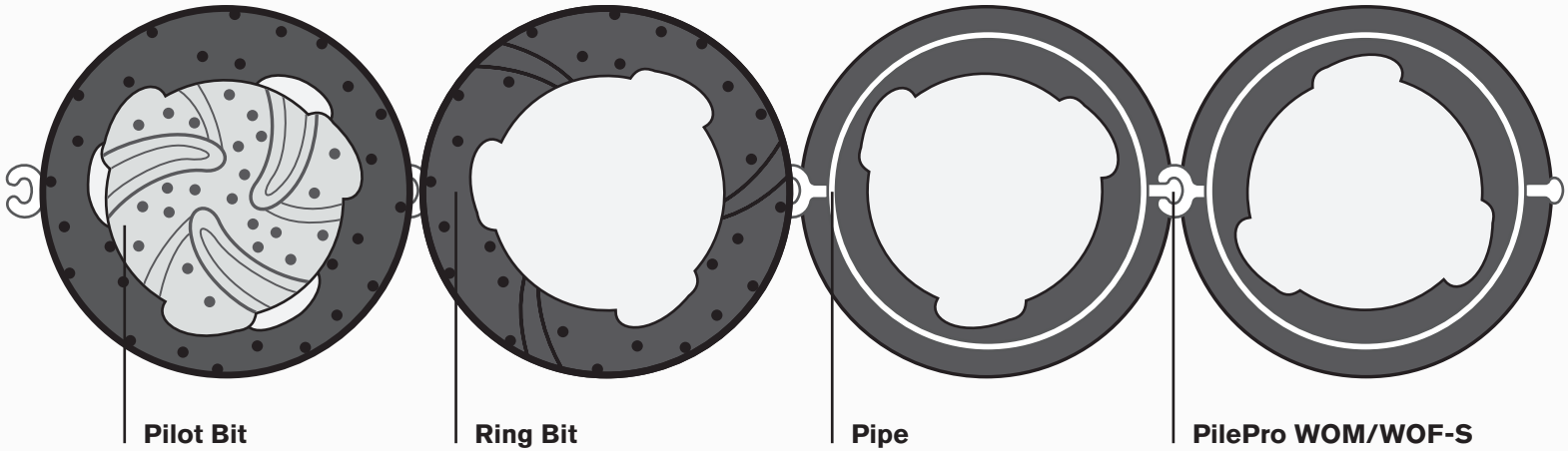
Development of new DTH techniques, especially the introduction of new air control bits, is making DTH drilling safer and more environmentally friendly than ever before. Using DTH in urban areas and in sensitive ground is now possible; plus, there is no danger of overdrilling or air escaping, which could otherwise cause settlement to existing structures.

DTH drilling has been used in post glacial soils of Norway, boulders of Sweden, granite of Finland, deep bed rock of Hong Kong, through heavy structure in Macau, and tunnels in Virginia.

Every Certified O-Pile® system is delivered with the ring bits attached and ready for use in conjunction with your pilot bit.

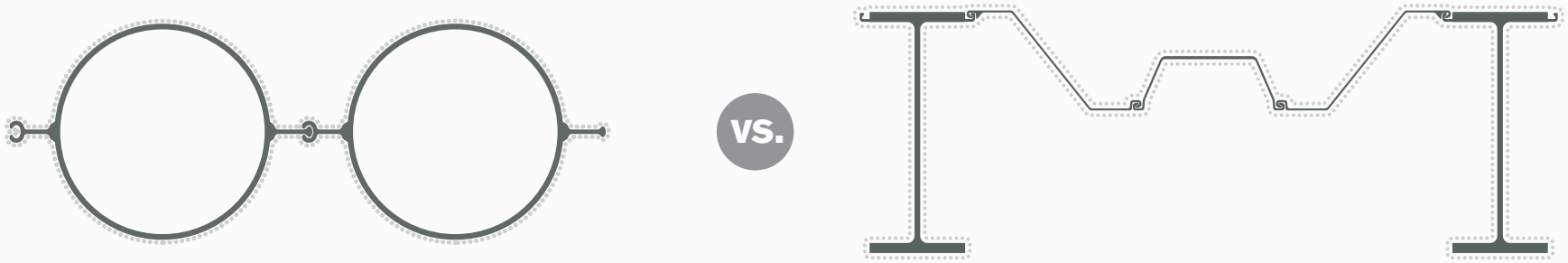
DTH-O-Pile

The only SSP system that can be driven through solid rock.



Contiguous Sheet Pile: O-Pile®

O-Pile® is a pipe or tube section with attached connectors so that one entire section can be driven into the next to form a continuous steel wall with a similar load-bearing element, sometimes with varying diameters of pipes/tubes.



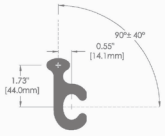
O-Pile® is a dynamic, cost-effective, contiguous Pipe Sheet Pile® system that allows you to drive predictably into pure rock, if necessary, as well as dial in your corrosion and bending moment needs separately. O-Pile® is versatile and readily available, as you can use your local pipe plant or supply—no need to bring the majority of the steel from Luxembourg anymore.

Whether you're driving into pure rock or building a port or both, as your engineering partner, we will help you pick from a wide array of O-Pile® systems to ensure you meet your specific project needs.

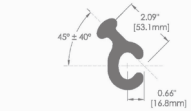
O-Pile®

sheet-pile.com/o-pile

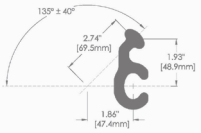
PilePro® Sheet Pile Connectors



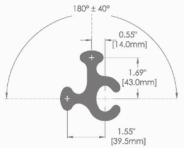
PZ 90



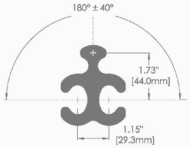
Colt



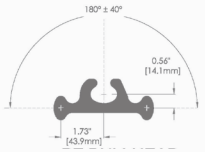
Cobra



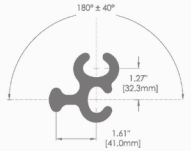
PZ Tee



Joker



Bullhead



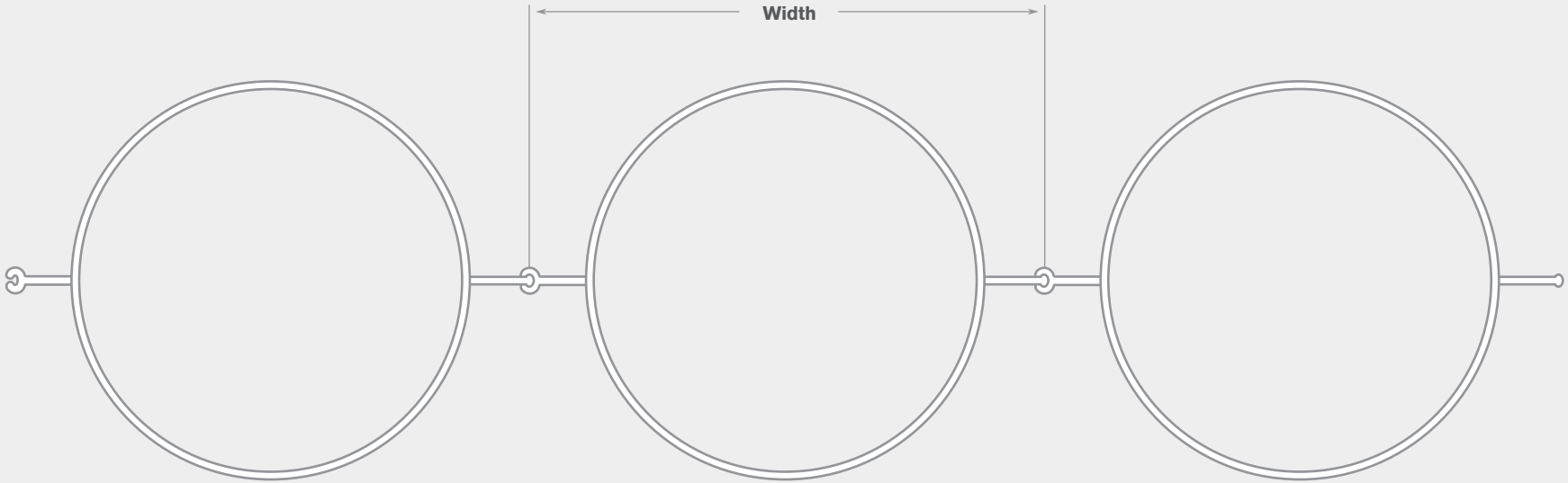
PZT-S

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

O-Pile®

BALL & SOCKET
MULTI-USE

Configuration A



SECTION NAME:

101 - 978

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible O-Pile solutions.
Please configure your own system on sheet-pile.com/o-pile

Sheet Pile LLC is the owner and assignee of numerous patents and trademarks related to the O-Pile® system, including, but not limited to, United States Patent Nos. 8,088,469, 8,323,765, and 7,935,406.

O-Pile®

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BALL & SOCKET | MULTI-USE

Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
13-308	O	9.6	0.394	12.13	25	36.43	42.18	47.93	20	0.472	2.5	120	104	124.8	135.2	107.1	129.8	144.8	229.3
		244.1	10	308.1	1342.2	177.89	205.96	234.02	3413	12	64	16381.9	462.7	555.3	601.5	476.5	577.2	644.3	1020.1
16-308	O	9.6	0.472	12.13	29.2	42.26	48.74	55.21	20	0.472	2.5	140.4	121.8	146.1	158.3	125.4	151.9	169.5	268.4
		244.1	12	308.1	1571.1	206.33	237.96	269.58	3413	12	64	19174.9	541.6	649.9	704.1	557.7	675.6	754.1	1194
19-388	O	12.8	0.375	15.27	34.4	35.75	41.16	46.58	20	0.472	2.5	219.5	143.5	172.2	186.5	147.7	179	199.8	316.3
		323.8	9.525	387.85	1851.3	174.53	200.97	227.42	3413	12	64	29977.6	638.2	765.9	829.7	657.2	796.1	888.6	1407
23-808	O	20	0.375	31.81	42	29.52	34.41	39.3	20	0.472	11.8	420	175	210	227.5	180.2	218.3	243.7	385.8
		508	9.525	808	2258.2	144.12	168	191.89	3413	12	300	57359.1	778.5	934.2	1012	801.7	971	1084	1716.3
24-775	O	20	0.375	30.51	43.8	30.26	35.19	40.12	20	0.472	10.5	437.9	182.5	219	237.2	187.9	227.6	254.1	402.3
		508	9.525	775	2354.4	147.76	171.83	195.9	3413	12	267	59801.5	811.6	974	1055.1	835.8	1012.4	1130.1	1789.3
24-808	O	20	0.394	31.81	44	30.68	35.72	40.75	20	0.472	11.8	439.7	183.2	219.9	238.2	188.7	228.5	255.1	403.9
		508	10	808	2364.2	149.78	174.38	198.97	3413	12	300	60049.8	815	978	1059.5	839.3	1016.6	1134.8	1796.8
24-763	O	20	0.375	30.02	44.5	30.45	35.35	40.26	20	0.472	10	445.1	185.5	222.5	241.1	191	231.3	258.2	408.9
		508	9.525	762.5	2393	148.65	172.6	196.56	3413	12	254.5	60781.8	825	989.9	1072.4	849.5	1029	1148.6	1818.7
24-470	O	16	0.375	18.52	45.5	36.23	41.54	46.85	20	0.472	2.5	364.2	189.7	227.6	246.6	195.3	236.6	264.1	418.2
		406.4	9.525	470.4	2447.6	176.88	202.81	228.73	3413	12	64	49735.8	843.8	1012.5	1096.9	868.9	1052.5	1174.9	1860.2
25-741	O	20	0.375	29.17	45.8	30.99	35.93	40.86	20	0.472	9.2	458	190.8	229	248.1	196.5	238	265.7	420.7
		508	9.525	741	2462.4	151.31	175.41	199.5	3413	12	233	62545.4	848.9	1018.7	1103.6	874.2	1058.8	1182	1871.4
25-775	O	20	0.394	30.51	45.8	31.47	36.55	41.64	20	0.472	10.5	458.5	191	229.2	248.3	196.7	238.3	266	421.1
		508	10	775	2464.8	153.67	178.48	203.29	3413	12	267	62606.8	849.7	1019.7	1104.6	875	1059.9	1183.1	1873.3
25-763	O	20	0.394	30.02	46.6	31.67	36.73	41.79	20	0.472	10	466	194.2	233	252.4	199.9	242.2	270.3	428
		508	10	762.5	2505.2	154.65	179.35	204.06	3413	12	254.5	63633.1	863.7	1036.4	1122.7	889.4	1077.3	1202.5	1904
26-470	O	16	0.394	18.52	47.6	37.81	43.31	48.82	20	0.472	2.5	381	198.4	238.1	258	204.4	247.5	276.3	437.5
		406.4	10	470.4	2560.6	184.58	211.48	238.37	3413	12	64	52031.9	882.7	1059.3	1147.6	909	1101.1	1229.1	1946.1
26-711	O	20	0.375	27.99	47.7	31.82	36.8	41.78	20	0.472	8	477.3	198.9	238.7	258.6	204.8	248.1	276.9	438.5
		508	9.525	711	2566.3	155.34	179.67	204	3413	12	203	65184.4	884.7	1061.6	1150.1	911	1103.5	1231.8	1950.4
26-859	O	22	0.375	33.81	47.9	30.05	34.94	39.82	20	0.472	11.8	527.4	199.8	239.7	259.7	205.7	249.2	278.1	440.4
		558.8	9.525	858.8	2577.6	146.71	170.57	194.43	3413	12	300	72019.5	888.6	1066.3	1155.2	915.1	1108.4	1237.3	1959

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
26-741	O	20	0.394	29.17	47.9	32.26	37.35	42.44	20	0.472	9.2	479.5	199.8	239.7	259.7	205.7	249.2	278.2	440.5
		508	10	741	2577.9	157.48	182.36	207.23	3413	12	233	65479.4	888.7	1066.5	1155.3	915.2	1108.5	1237.4	1959.2
26-808	O	20	0.438	31.81	48.5	33.39	38.76	44.14	20	0.472	11.8	485.4	202.3	242.7	262.9	208.3	252.3	281.6	445.9
		508	11.112	808	2609.9	163.01	189.26	215.5	3413	12	300	66290.6	899.7	1079.7	1169.6	926.5	1122.2	1252.7	1983.5
27-688	O	20	0.375	27.09	49.3	32.01	36.88	41.74	20	0.472	7.1	493.3	205.5	246.6	267.2	211.7	256.4	286.2	453.1
		508	9.525	688	2652.1	156.31	180.05	203.78	3413	12	180	67363.6	914.3	1097.1	1188.6	941.5	1140.4	1273	2015.6
27-826	O	22	0.375	32.51	49.9	30.77	35.69	40.62	20	0.472	10.5	548.5	207.8	249.3	270.1	213.9	259.1	289.3	458
		558.8	9.525	825.8	2680.7	150.23	174.27	198.3	3413	12	267	74897.5	924.1	1108.9	1201.4	951.6	1152.7	1286.7	2037.3
27-711	O	20	0.394	27.99	50	33.13	38.28	43.43	20	0.472	8	499.7	208.2	249.9	270.7	214.4	259.7	289.9	459
		508	10	711	2686.7	161.78	186.91	212.05	3413	12	203	68242.3	926.2	1111.4	1204.1	953.8	1155.3	1289.6	2041.9
27-859	O	22	0.394	33.81	50.3	31.25	36.29	41.33	20	0.472	11.8	553.6	209.7	251.7	272.6	216	261.6	292	462.3
		558.8	10	858.8	2706	152.59	177.19	201.79	3413	12	300	75605.7	932.9	1119.4	1212.7	960.6	1163.6	1298.9	2056.6
27-775	O	20	0.438	30.51	50.6	34.3	39.73	45.17	20	0.472	10.5	506.1	210.9	253.1	274.1	217.2	263	293.6	464.9
		508	11.112	775	2721	167.46	193.99	220.52	3413	12	267	69113.3	938	1125.6	1219.4	966	1170	1306.1	2068
27-813	O	22	0.375	32.02	50.6	30.95	35.85	40.75	20	0.472	10	556.9	210.9	253.1	274.2	217.2	263.1	293.7	465
		558.8	9.525	813.3	2721.9	151.1	175.03	198.95	3413	12	254.5	76048.6	938.3	1126	1219.8	966.3	1170.4	1306.5	2068.6
28-763	O	20	0.438	30.02	51.4	34.55	39.96	45.38	20	0.472	10	514.4	214.3	257.2	278.6	220.7	267.3	298.4	472.5
		508	11.112	762.5	2765.6	168.66	195.12	221.58	3413	12	254.5	70246.3	953.4	1144.1	1239.4	981.8	1189.2	1327.5	2101.9
28-688	O	20	0.394	27.09	51.6	33.38	38.41	43.44	20	0.472	7.1	516.4	215.2	258.2	279.7	221.6	268.4	299.6	474.4
		508	10	688	2776.5	162.96	187.53	212.1	3413	12	180	70523.6	957.2	1148.6	1244.3	985.7	1193.9	1332.7	2110.2
28-792	O	22	0.375	31.17	52	31.47	36.4	41.33	20	0.472	9.2	572	216.7	260	281.7	223.1	270.3	301.7	477.7
		558.8	9.525	791.8	2795.8	153.66	177.72	201.78	3413	12	233	78113.6	963.8	1156.6	1252.9	992.5	1202.2	1342	2124.8
28-808	O	20	0.472	31.81	52.1	35.54	41.18	46.83	20	0.472	11.8	521.4	217.3	260.7	282.4	223.7	271	302.5	479
		508	12	808	2803.5	173.52	201.08	228.64	3413	12	300	71208	966.5	1159.8	1256.4	995.2	1205.5	1345.7	2130.6
28-826	O	22	0.394	32.51	52.3	32.02	37.1	42.18	20	0.472	10.5	575.8	218.1	261.7	283.5	224.6	272	303.7	480.8
		558.8	10	825.8	2814.1	156.35	181.15	205.95	3413	12	267	78627	970.1	1164.2	1261.2	999	1210.1	1350.8	2138.7
28-521	O	18	0.375	20.52	52.4	36.45	41.71	46.97	20	0.472	2.5	471.7	218.4	262.1	283.9	224.9	272.4	304.1	481.5
		457.2	9.525	521.2	2817.9	177.95	203.64	229.33	3413	12	64	64417.7	971.4	1165.7	1262.9	1000.4	1211.7	1352.6	2141.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
28-470	O	16	0.438	18.52	52.5	41.49	47.46	53.42	20	0.472	2.5	419.9	218.7	262.4	284.3	225.2	272.8	304.5	482.2
		406.4	11.112	470.4	2822	202.56	231.7	260.84	3413	12	64	57343.8	972.9	1167.4	1264.7	1001.8	1213.5	1354.6	2144.7
28-741	O	20	0.438	29.17	52.9	35.21	40.67	46.14	20	0.472	9.2	529.3	220.6	264.7	286.7	227.1	275.1	307.1	486.2
		508	11.112	741	2845.8	171.91	198.58	225.25	3413	12	233	72284.4	981.1	1177.3	1275.4	1010.3	1223.7	1366	2162.8
29-813	O	22	0.394	32.02	53.1	32.22	37.28	42.34	20	0.472	10	584.6	221.4	265.7	287.9	228	276.2	308.3	488.2
		558.8	10	813.3	2857.4	157.31	182.02	206.72	3413	12	254.5	79835.4	985.1	1182.1	1280.6	1014.4	1228.7	1371.5	2171.6
29-762	O	22	0.375	29.99	54	32.26	37.23	42.21	20	0.472	8	594.5	225.2	270.2	292.8	231.9	280.9	313.6	496.5
		558.8	9.525	761.8	2905.9	157.51	181.79	206.06	3413	12	203	81189.7	1001.8	1202.1	1302.3	1031.6	1249.5	1394.8	2208.5
29-910	O	24	0.375	35.81	54.2	30.52	35.4	40.29	20	0.472	11.8	650.8	226	271.2	293.8	232.7	281.9	314.7	498.2
		609.6	9.525	909.6	2916	149.01	172.85	196.69	3413	12	300	88879.3	1005.3	1206.3	1306.8	1035.2	1253.9	1399.7	2216.2
29-775	O	20	0.472	30.51	54.4	36.54	42.26	47.97	20	0.472	10.5	543.6	226.5	271.8	294.5	233.3	282.5	315.4	499.4
		508	12	775	2922.8	178.41	206.31	234.22	3413	12	267	74240.1	1007.6	1209.1	1309.9	1037.6	1256.8	1403	2221.4
29-792	O	22	0.394	31.17	54.6	32.78	37.87	42.96	20	0.472	9.2	600.5	227.5	273	295.7	234.2	283.7	316.7	501.5
		558.8	10	791.8	2935	160.04	184.9	209.75	3413	12	233	82003.2	1011.8	1214.2	1315.3	1041.9	1262	1408.8	2230.6
29-521	O	18	0.394	20.52	54.9	38.06	43.52	48.99	20	0.472	2.5	493.7	228.6	274.3	297.1	235.4	285.1	318.2	503.9
		457.2	10	521.2	2949.2	185.82	212.5	239.17	3413	12	64	67418.3	1016.7	1220	1321.7	1047	1268.1	1415.6	2241.4
30-808	O	20	0.5	31.81	55	37.23	43.09	48.94	20	0.472	11.8	549.6	229	274.8	297.7	235.8	285.6	318.8	504.8
		508	12.7	808	2954.7	181.78	210.37	238.96	3413	12	300	75048.6	1018.6	1222.3	1324.2	1048.9	1270.5	1418.2	2245.5
30-711	O	20	0.438	27.99	55.2	36.21	41.75	47.28	20	0.472	8	551.7	229.9	275.8	298.8	236.7	286.7	320	506.7
		508	11.112	711	2965.9	176.81	203.82	230.84	3413	12	203	75334.4	1022.5	1227	1329.2	1052.9	1275.3	1423.6	2254.1
30-763	O	20	0.472	30.02	55.3	36.83	42.53	48.23	20	0.472	10	552.6	230.2	276.3	299.3	237.1	287.2	320.6	507.6
		508	12	762.5	2970.8	179.8	207.65	235.5	3413	12	254.5	75457.2	1024.1	1229	1331.4	1054.6	1277.4	1426	2257.8
30-739	O	22	0.375	29.09	55.7	32.46	37.32	42.18	20	0.472	7.1	613	232.2	278.7	301.9	239.1	289.6	323.3	511.9
		558.8	9.525	738.8	2996.3	158.48	182.2	205.92	3413	12	180	83717.3	1032.9	1239.5	1342.8	1063.7	1288.4	1438.2	2277.2
30-608	O	20	0.375	23.94	55.8	34.9	39.96	45.02	20	0.472	3.9	558.2	232.6	279.1	302.4	239.5	290.1	323.8	512.7
		508	9.525	608	3001.1	170.41	195.12	219.82	3413	12	100	76227.2	1034.6	1241.5	1345	1065.4	1290.5	1440.5	2280.8
30-877	O	24	0.375	34.51	56.3	31.22	36.13	41.05	20	0.472	10.5	675.4	234.5	281.4	304.8	241.5	292.5	326.5	517
		609.6	9.525	876.6	3025.8	152.41	176.42	200.42	3413	12	267	92225.2	1043.1	1251.7	1356	1074.1	1301.1	1452.4	2299.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
30-470	O	16	0.472	18.52	56.3	44.41	50.74	57.08	20	0.472	2.5	450.5	234.6	281.5	305	241.6	292.6	326.7	517.2
		406.4	12	470.4	3027.4	216.83	247.75	278.67	3413	12	64	61515.8	1043.6	1252.4	1356.7	1074.7	1301.8	1453.1	2300.8
31-762	O	22	0.394	29.99	56.7	33.62	38.76	43.9	20	0.472	8	624.1	236.4	283.7	307.3	243.5	294.9	329.2	521.2
		558.8	10	761.8	3050.6	164.15	189.25	214.36	3413	12	203	85232.5	1051.6	1262	1367.1	1082.9	1311.7	1464.3	2318.4
31-910	O	24	0.394	35.81	56.8	31.76	36.8	41.84	20	0.472	11.8	681.7	236.7	284	307.7	243.7	295.2	329.6	521.8
		609.6	10	909.6	3054.2	155.09	179.69	204.29	3413	12	300	93092.6	1052.9	1263.5	1368.8	1084.2	1313.3	1466	2321.2
31-741	O	20	0.472	29.17	56.9	37.56	43.31	49.07	20	0.472	9.2	568.6	236.9	284.3	308	244	295.5	329.9	522.3
		508	12	741	3057	183.36	211.47	239.58	3413	12	233	77646.5	1053.8	1264.6	1370	1085.2	1314.5	1467.3	2323.3
31-688	O	20	0.438	27.09	57	36.56	41.99	47.42	20	0.472	7.1	570.1	237.5	285.1	308.8	244.6	296.3	330.7	523.7
		508	11.112	688	3065.1	178.49	205	231.52	3413	12	180	77852.9	1056.6	1268	1373.6	1088.1	1318	1471.2	2329.5
31-864	O	24	0.375	34.02	57.1	31.39	36.29	41.18	20	0.472	10	685.1	237.9	285.5	309.3	245	296.7	331.2	524.4
		609.6	9.525	864.1	3069.5	153.26	177.16	201.06	3413	12	254.5	93559.3	1058.2	1269.8	1375.6	1089.7	1319.9	1473.4	2332.8
31-775	O	20	0.5	30.51	57.3	38.31	44.24	50.18	20	0.472	10.5	573	238.7	286.5	310.4	245.8	297.8	332.4	526.3
		508	12.7	775	3080.5	187.02	216	244.98	3413	12	267	78244.2	1062	1274.3	1380.5	1093.6	1324.6	1478.6	2341.2
31-763	O	20	0.5	30.02	58.2	38.62	44.55	50.47	20	0.472	10	582.4	242.7	291.2	315.4	249.9	302.7	337.9	534.9
		508	12.7	762.5	3131	188.55	217.5	246.44	3413	12	254.5	79526.9	1079.4	1295.2	1403.2	1111.5	1346.3	1502.9	2379.5
31-608	O	20	0.394	23.94	58.4	36.44	41.7	46.95	20	0.472	3.9	584.4	243.5	292.2	316.5	250.7	303.7	339	536.8
		508	10	608	3141.9	177.94	203.59	229.23	3413	12	100	79803	1083.1	1299.7	1408	1115.4	1351	1508.1	2387.8
31-739	O	22	0.394	29.09	58.5	33.86	38.89	43.93	20	0.472	7.1	643.6	243.8	292.5	316.9	251	304.1	339.4	537.4
		558.8	10	738.8	3145.5	165.32	189.9	214.47	3413	12	180	87886	1084.4	1301.3	1409.7	1116.7	1352.6	1509.9	2390.6
31-843	O	24	0.375	33.17	58.6	31.89	36.82	41.74	20	0.472	9.2	702.6	244	292.8	317.1	251.2	304.3	339.7	537.8
		609.6	9.525	842.6	3147.9	155.72	179.75	203.77	3413	12	233	95946.6	1085.2	1302.2	1410.7	1117.5	1353.6	1511	2392.4
32-877	O	24	0.394	34.51	58.9	32.51	37.59	42.66	20	0.472	10.5	707.4	245.6	294.7	319.3	252.9	306.4	342	541.5
		609.6	10	876.6	3169.2	158.72	183.52	208.31	3413	12	267	96597.1	1092.5	1311	1420.3	1125.1	1362.8	1521.2	2408.6
32-711	O	20	0.472	27.99	59.3	38.66	44.5	50.34	20	0.472	8	592.6	246.9	296.3	321	254.3	308	343.8	544.3
		508	12	711	3185.9	188.75	217.26	245.77	3413	12	203	80922.8	1098.3	1318	1427.8	1131	1370	1529.2	2421.3
32-470	O	16	0.5	18.52	59.3	46.71	53.33	59.95	20	0.472	2.5	474.3	247	296.4	321.1	254.4	308.1	343.9	544.6
		406.4	12.7	470.4	3187.3	228.04	260.36	292.68	3413	12	64	64765.6	1098.8	1318.5	1428.4	1131.5	1370.5	1529.9	2422.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
32-572	O	20	0.375	22.52	59.3	36.63	41.85	47.07	20	0.472	2.5	593.3	247.2	296.7	321.4	254.6	308.4	344.2	545
		508	9.525	572	3189.9	178.84	204.33	229.83	3413	12	64	81024.7	1099.7	1319.6	1429.6	1132.4	1371.7	1531.2	2424.4
32-859	O	22	0.472	33.81	59.7	36.31	41.97	47.64	20	0.472	11.8	657.2	249	298.7	323.6	256.4	310.5	346.6	548.8
		558.8	12	858.8	3212.3	177.26	204.94	232.62	3413	12	300	89751.9	1107.4	1328.9	1439.6	1140.4	1381.3	1541.9	2441.4
32-864	O	24	0.394	34.02	59.8	32.7	37.76	42.82	20	0.472	10	717.6	249.2	299	323.9	256.6	310.8	346.9	549.3
		609.6	10	864.1	3215	159.66	184.36	209.06	3413	12	254.5	97994.4	1108.3	1330	1440.8	1141.3	1382.5	1543.2	2443.4
32-741	O	20	0.5	29.17	59.9	39.4	45.39	51.38	20	0.472	9.2	599.3	249.7	299.6	324.6	257.1	311.4	347.7	550.5
		508	12.7	741	3221.8	192.37	221.6	250.84	3413	12	233	81834.4	1110.7	1332.8	1443.9	1143.7	1385.4	1546.5	2448.6
33-521	O	18	0.438	20.52	60.5	41.82	47.75	53.69	20	0.472	2.5	544.6	252.1	302.6	327.8	259.6	314.5	351.1	555.8
		457.2	11.112	521.2	3253.3	204.19	233.16	262.13	3413	12	64	74369.8	1121.5	1345.8	1458	1154.9	1398.9	1561.6	2472.5
33-813	O	24	0.375	31.99	60.7	32.65	37.61	42.57	20	0.472	8	728.5	253	303.6	328.9	260.5	315.5	352.2	557.7
		609.6	9.525	812.6	3264.1	159.41	183.64	207.87	3413	12	203	99488.8	1125.2	1350.3	1462.8	1158.7	1403.5	1566.8	2480.7
33-688	O	20	0.472	27.09	61.2	39.09	44.83	50.58	20	0.472	7.1	612.4	255.2	306.2	331.7	262.8	318.3	355.3	562.5
		508	12	688	3292.4	190.83	218.89	246.94	3413	12	180	83628	1135	1362	1475.5	1168.8	1415.8	1580.4	2502.3
33-808	O	20	0.562	31.81	61.2	41.05	47.38	53.72	20	0.472	11.8	612.5	255.2	306.2	331.7	262.8	318.3	355.3	562.6
		508	14.288	808	3292.7	200.42	231.35	262.27	3413	12	300	83635.5	1135.1	1362.2	1475.7	1168.9	1415.9	1580.5	2502.5
33-843	O	24	0.394	33.17	61.3	33.24	38.33	43.42	20	0.472	9.2	735.9	255.5	306.6	332.2	263.1	318.7	355.8	563.3
		609.6	10	842.6	3297.1	162.28	187.13	211.98	3413	12	233	100494.9	1136.6	1364	1477.6	1170.5	1417.7	1582.6	2505.8
33-572	O	20	0.394	22.52	62.1	38.27	43.69	49.12	20	0.472	2.5	621.2	258.8	310.6	336.5	266.5	322.8	360.4	570.6
		508	10	572	3339.6	186.84	213.34	239.83	3413	12	64	84825.6	1151.3	1381.5	1496.7	1185.6	1436	1603	2538.1
33-826	O	22	0.472	32.51	62.1	37.28	43.01	48.75	20	0.472	10.5	683.5	258.9	310.7	336.6	266.6	322.9	360.5	570.8
		558.8	12	825.8	3340.7	182	210.01	238.01	3413	12	267	93338.5	1151.7	1382	1497.2	1185.9	1436.5	1603.5	2538.9
34-711	O	20	0.5	27.99	62.5	40.58	46.66	52.74	20	0.472	8	624.5	260.2	312.3	338.3	268	324.6	362.3	573.7
		508	12.7	711	3357.8	198.14	227.82	257.5	3413	12	203	85287.3	1157.6	1389.1	1504.8	1192	1443.8	1611.7	2551.9
34-790	O	24	0.375	31.09	62.5	32.85	37.7	42.56	20	0.472	7.1	749.8	260.3	312.4	338.4	268.1	324.7	362.5	573.9
		609.6	9.525	789.6	3359.1	160.38	184.08	207.79	3413	12	180	102386.8	1158	1389.6	1505.4	1192.5	1444.4	1612.4	2553
34-659	O	22	0.375	25.94	62.5	35.18	40.22	45.26	20	0.472	3.9	687.5	260.4	312.5	338.5	268.2	324.8	362.6	574.1
		558.8	9.525	658.8	3360.2	171.76	196.37	220.99	3413	12	100	93883.4	1158.4	1390.1	1505.9	1192.9	1444.9	1612.9	2553.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
34-910	O	24	0.438	35.81	62.8	34.67	40.08	45.48	20	0.472	11.8	753.4	261.6	313.9	340.1	269.4	326.3	364.2	576.7
		609.6	11.112	909.6	3375.4	169.29	195.67	222.04	3413	12	300	102881.3	1163.6	1396.3	1512.7	1198.3	1451.4	1620.2	2565.3
34-859	O	22	0.5	33.81	63	38.06	43.95	49.84	20	0.472	11.8	693	262.5	315	341.2	270.3	327.4	365.5	578.7
		558.8	12.7	858.8	3386.9	185.85	214.6	243.36	3413	12	300	94628.7	1167.6	1401.1	1517.8	1202.3	1456.3	1625.7	2574
34-813	O	22	0.472	32.02	63.1	37.55	43.28	49.01	20	0.472	10	694	262.9	315.5	341.7	270.7	327.9	366	579.5
		558.8	12	813.3	3392	183.36	211.31	239.27	3413	12	254.5	94773.1	1169.4	1403.2	1520.2	1204.2	1458.6	1628.2	2577.9
34-813	O	24	0.394	31.99	63.6	34.04	39.18	44.32	20	0.472	8	763.1	265	317.9	344.4	272.8	330.5	368.9	584.1
		609.6	10	812.6	3418.8	166.22	191.3	216.37	3413	12	203	104205	1178.6	1414.3	1532.2	1213.7	1470.1	1641	2598.3
34-775	O	20	0.562	30.51	63.9	42.29	48.72	55.15	20	0.472	10.5	638.5	266.1	319.3	345.9	274	331.9	370.4	586.5
		508	14.288	775	3432.9	206.46	237.87	269.28	3413	12	267	87196.8	1183.5	1420.2	1538.5	1218.7	1476.2	1647.8	2609
35-608	O	20	0.438	23.94	64.5	40.04	45.75	51.45	20	0.472	3.9	645.1	268.8	322.6	349.4	276.8	335.3	374.3	592.6
		508	11.112	608	3468.4	195.52	223.36	251.2	3413	12	100	88096.7	1195.7	1434.8	1554.4	1231.3	1491.4	1664.8	2636
35-688	O	20	0.5	27.09	64.5	41.07	47.07	53.06	20	0.472	7.1	645.4	268.9	322.7	349.6	276.9	335.4	374.4	592.9
		508	12.7	688	3470	200.54	229.8	259.07	3413	12	180	88138.5	1196.2	1435.5	1555.1	1231.9	1492.1	1665.6	2637.2
35-792	O	22	0.472	31.17	64.8	38.26	44.03	49.81	20	0.472	9.2	712.9	270	324	351	278.1	336.8	376	595.3
		558.8	12	791.8	3484.1	186.79	214.99	243.19	3413	12	233	97346.5	1201.1	1441.3	1561.4	1236.9	1498.2	1672.4	2647.9
35-763	O	20	0.562	30.02	64.9	42.67	49.1	55.53	20	0.472	10	649	270.4	324.5	351.5	278.5	337.3	376.5	596.2
		508	14.288	762.5	3489.2	208.31	239.72	271.14	3413	12	254.5	88626.2	1202.9	1443.4	1563.7	1238.7	1500.4	1674.8	2651.8
35-521	O	18	0.472	20.52	65	44.81	51.11	57.42	20	0.472	2.5	584.7	270.7	324.8	351.9	278.7	337.6	376.9	596.7
		457.2	12	521.2	3492.5	218.77	249.56	280.36	3413	12	64	79839.5	1204	1444.8	1565.2	1239.9	1501.8	1676.4	2654.3
35-877	O	24	0.438	34.51	65.1	35.53	40.98	46.44	20	0.472	10.5	781.7	271.4	325.7	352.9	279.5	338.6	377.9	598.4
		609.6	11.112	876.6	3502.4	173.46	200.09	226.73	3413	12	267	106754.3	1207.4	1448.9	1569.6	1243.4	1506	1681.2	2661.9
35-790	O	24	0.394	31.09	65.4	34.28	39.32	44.35	20	0.472	7.1	785.3	272.7	327.2	354.5	280.8	340.1	379.7	601.1
		609.6	10	789.6	3518.4	167.38	191.96	216.54	3413	12	180	107240.4	1212.9	1455.5	1576.8	1249	1512.9	1688.8	2674
35-826	O	22	0.5	32.51	65.5	39.11	45.07	51.04	20	0.472	10.5	720.6	273	327.6	354.9	281.1	340.5	380.1	601.8
		558.8	12.7	825.8	3522.2	190.93	220.06	249.18	3413	12	267	98410.2	1214.2	1457.1	1578.5	1250.4	1514.5	1690.7	2676.9
35-659	O	22	0.394	25.94	65.6	36.75	41.99	47.23	20	0.472	3.9	721.7	273.4	328.1	355.4	281.5	341	380.6	602.7
		558.8	10	658.8	3527.5	179.43	205	230.57	3413	12	100	98558.2	1216.1	1459.3	1580.9	1252.3	1516.8	1693.2	2680.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
35-470	O	16	0.562	18.52	65.9	51.88	59.15	66.41	20	0.472	2.5	527.3	274.6	329.5	357	282.8	342.5	382.4	605.4
		406.4	14.288	470.4	3543.5	253.3	288.78	324.26	3413	12	64	72004.1	1221.6	1465.9	1588.1	1257.9	1523.7	1700.9	2693.1
36-864	O	24	0.438	34.02	66.1	35.76	41.2	46.65	20	0.472	10	793.1	275.4	330.4	358	283.6	343.5	383.4	607.1
		609.6	11.112	864.1	3553.1	174.61	201.18	227.75	3413	12	254.5	108298.6	1224.9	1469.9	1592.4	1261.4	1527.8	1705.5	2700.4
36-623	O	22	0.375	24.52	66.1	36.78	41.97	47.16	20	0.472	2.5	727.2	275.5	330.6	358.1	283.7	343.6	383.5	607.3
		558.8	9.525	622.8	3554.4	179.58	204.91	230.24	3413	12	64	99310.1	1225.3	1470.4	1592.9	1261.8	1528.4	1706.1	2701.3
36-813	O	22	0.5	32.02	66.5	39.41	45.37	51.33	20	0.472	10	731.7	277.2	332.6	360.3	285.4	345.7	385.9	611
		558.8	12.7	813.3	3576.3	192.43	221.52	250.61	3413	12	254.5	99922.7	1232.9	1479.5	1602.8	1269.6	1537.8	1716.6	2718
36-741	O	20	0.562	29.17	66.8	43.56	50.07	56.58	20	0.472	9.2	667.8	278.3	333.9	361.7	286.5	347.1	387.4	613.4
		508	14.288	741	3590.5	212.7	244.48	276.25	3413	12	233	91197.7	1237.8	1485.3	1609.1	1274.6	1543.9	1723.4	2728.7
36-1011	O	28	0.375	39.81	66.9	31.32	36.2	41.07	20	0.472	11.8	936	278.6	334.3	362.1	286.9	347.5	387.9	614.1
		711.2	9.525	1011.2	3594.3	152.92	176.73	200.53	3413	12	300	127813.5	1239.1	1486.9	1610.8	1276	1545.6	1725.3	2731.7
36-762	O	22	0.472	29.99	67.4	39.31	45.17	51.02	20	0.472	8	740.9	280.7	336.8	364.8	289	350.1	390.8	618.7
		558.8	12	761.8	3621.3	191.95	220.53	249.11	3413	12	203	101180	1248.4	1498.1	1622.9	1285.6	1557.2	1738.2	2752.2
36-808	O	20	0.625	31.81	67.4	44.84	51.65	58.46	20	0.472	11.8	674.1	280.9	337	365.1	289.2	350.3	391.1	619.2
		508	15.875	808	3624.2	218.94	252.18	285.42	3413	12	300	92053.5	1249.4	1499.3	1624.2	1286.6	1558.4	1739.6	2754.4
36-910	O	24	0.472	35.81	67.5	36.99	42.68	48.37	20	0.472	11.8	810	281.2	337.5	365.6	289.6	350.8	391.6	620
		609.6	12	909.6	3629	180.58	208.37	236.16	3413	12	300	110611.3	1251	1501.3	1626.4	1288.3	1560.5	1741.9	2758
36-843	O	24	0.438	33.17	67.8	36.38	41.86	47.34	20	0.472	9.2	813.3	282.4	338.9	367.1	290.8	352.2	393.2	622.6
		609.6	11.112	842.6	3643.8	177.61	204.38	231.14	3413	12	233	111062	1256.1	1507.4	1633	1293.5	1566.8	1749	2769.3
37-792	O	22	0.5	31.17	68.3	40.17	46.18	52.19	20	0.472	9.2	751.6	284.7	341.6	370.1	293.2	355.1	396.4	627.6
		558.8	12.7	791.8	3673.4	196.1	225.47	254.84	3413	12	233	102635.9	1266.4	1519.6	1646.3	1304.1	1579.6	1763.3	2791.8
37-521	O	18	0.5	20.52	68.4	47.15	53.76	60.36	20	0.472	2.5	615.9	285.1	342.2	370.7	293.6	355.7	397	628.6
		457.2	12.7	521.2	3679.2	230.23	262.46	294.68	3413	12	64	84106.4	1268.4	1522	1648.9	1306.1	1582.1	1766	2796.2
37-572	O	20	0.438	22.52	68.6	42.09	48	53.9	20	0.472	2.5	685.7	285.7	342.9	371.4	294.2	356.4	397.8	629.9
		508	11.112	572	3686.7	205.52	234.36	263.19	3413	12	64	93641.2	1270.9	1525.1	1652.2	1308.8	1585.3	1769.6	2801.9
37-978	O	28	0.375	38.51	69.1	31.97	36.88	41.78	20	0.472	10.5	967.5	288	345.5	374.3	296.5	359.2	400.9	634.8
		711.2	9.525	978.2	3715.6	156.1	180.05	204	3413	12	267	132125.3	1280.9	1537.1	1665.2	1319	1597.7	1783.5	2823.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
37-608	O	20	0.472	23.94	69.3	42.91	48.97	55.03	20	0.472	3.9	693	288.7	346.5	375.4	297.3	360.2	402	636.5
		508	12	608	3725.7	209.48	239.07	268.66	3413	12	100	94631.7	1284.4	1541.2	1669.7	1322.6	1602	1788.3	2831.5
37-623	O	22	0.394	24.52	69.4	38.44	43.84	49.23	20	0.472	2.5	763.4	289.2	347	375.9	297.8	360.7	402.6	637.5
		558.8	10	622.8	3731.4	187.69	214.04	240.39	3413	12	64	104255.2	1286.4	1543.6	1672.3	1324.6	1604.5	1791.1	2835.9
37-739	O	22	0.472	29.09	69.5	39.73	45.5	51.27	20	0.472	7.1	764	289.4	347.3	376.2	298	361	402.9	638
		558.8	12	738.8	3734.1	193.99	222.15	250.31	3413	12	180	104329.9	1287.3	1544.7	1673.5	1325.6	1605.7	1792.4	2837.9
37-710	O	24	0.375	27.94	69.5	35.42	40.44	45.47	20	0.472	3.9	834.3	289.7	347.6	376.6	298.3	361.3	403.3	638.6
		609.6	9.525	709.6	3737.9	172.92	197.45	221.98	3413	12	100	113929.8	1288.6	1546.3	1675.2	1326.9	1607.3	1794.2	2840.8
37-711	O	20	0.562	27.99	69.6	44.92	51.54	58.16	20	0.472	8	696	290	348	377	298.6	361.7	403.8	639.3
		508	14.288	711	3742	219.33	251.66	283.99	3413	12	203	95045.7	1290	1548	1677	1328.4	1609	1796.1	2843.9
38-966	O	28	0.375	38.02	70	32.14	37.02	41.91	20	0.472	10	980.1	291.7	350	379.2	300.4	363.8	406.1	643
		711.2	9.525	965.7	3763.7	156.91	180.77	204.62	3413	12	254.5	133835.6	1297.5	1557	1686.7	1336.1	1618.4	1806.6	2860.4
38-877	O	24	0.472	34.51	70	37.93	43.68	49.44	20	0.472	10.5	840.5	291.8	350.2	379.4	300.5	364	406.3	643.4
		609.6	12	876.6	3765.6	185.17	213.27	241.37	3413	12	267	114775.3	1298.1	1557.8	1687.6	1336.8	1619.2	1807.5	2861.9
38-1011	O	28	0.394	39.81	70	32.63	37.67	42.71	20	0.472	11.8	980.7	291.9	350.2	379.4	300.5	364	406.4	643.4
		711.2	10	1011.2	3765.9	159.33	183.94	208.55	3413	12	300	133917.1	1298.3	1557.9	1687.7	1336.9	1619.4	1807.7	2862.1
38-813	O	24	0.438	31.99	70.3	37.3	42.84	48.39	20	0.472	8	843.3	292.8	351.4	380.7	301.5	365.2	407.7	645.5
		609.6	11.112	812.6	3778.3	182.11	209.18	236.24	3413	12	203	115162.2	1302.5	1563	1693.3	1341.3	1624.7	1813.6	2871.5
38-775	O	20	0.625	30.51	70.3	46.24	53.17	60.1	20	0.472	10.5	702.8	292.8	351.4	380.7	301.5	365.3	407.7	645.6
		508	15.875	775	3778.5	225.77	259.6	293.42	3413	12	267	95973.2	1302.6	1563.1	1693.4	1341.4	1624.7	1813.7	2871.6
38-762	O	22	0.5	29.99	71	41.3	47.4	53.5	20	0.472	8	781.2	295.9	355.1	384.7	304.7	369.1	412	652.3
		558.8	12.7	761.8	3818.1	201.63	231.42	261.21	3413	12	203	106677.8	1316.2	1579.5	1711.1	1355.4	1641.8	1832.7	2901.8
38-864	O	24	0.472	34.02	71.1	38.2	43.94	49.69	20	0.472	10	852.6	296.1	355.3	384.9	304.9	369.3	412.2	652.7
		609.6	12	864.1	3820.1	186.5	214.55	242.6	3413	12	254.5	116435.6	1316.9	1580.3	1712	1356.1	1642.6	1833.6	2903.2
38-910	O	24	0.5	35.81	71.2	38.8	44.72	50.64	20	0.472	11.8	854.3	296.6	355.9	385.6	305.5	370	413	653.9
		609.6	12.7	909.6	3827.4	189.46	218.36	247.26	3413	12	300	116657.9	1319.4	1583.3	1715.3	1358.7	1645.8	1837.1	2908.8
38-763	O	20	0.625	30.02	71.4	46.69	53.62	60.56	20	0.472	10	714.3	297.6	357.2	386.9	306.5	371.2	414.4	656.2
		508	15.875	762.5	3840.4	227.94	261.8	295.67	3413	12	254.5	97546.5	1323.9	1588.7	1721.1	1363.3	1651.4	1843.4	2918.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
38-944	O	28	0.375	37.17	71.6	32.6	37.51	42.42	20	0.472	9.2	1002.4	298.3	358	387.8	307.2	372.1	415.4	657.7
		711.2	9.525	944.2	3849.4	159.19	183.15	207.12	3413	12	233	136883.1	1327	1592.4	1725.1	1366.5	1655.2	1847.7	2925.5
39-688	O	20	0.562	27.09	71.9	45.56	52.11	58.67	20	0.472	7.1	719.3	299.7	359.6	389.6	308.6	373.8	417.3	660.7
		508	14.288	688	3867.1	222.43	254.44	286.44	3413	12	180	98223.1	1333.1	1599.7	1733.1	1372.8	1662.8	1856.2	2939
39-790	O	24	0.438	31.09	72.3	37.63	43.09	48.54	20	0.472	7.1	867.9	301.3	361.6	391.8	310.3	375.9	419.6	664.3
		609.6	11.112	789.6	3888.3	183.74	210.36	236.99	3413	12	180	118516.7	1340.5	1608.5	1742.6	1380.4	1672	1866.4	2955.1
39-470	O	16	0.625	18.52	72.4	57.01	64.92	72.83	20	0.472	2.5	579	301.5	361.9	392	310.5	376.1	419.9	664.8
		406.4	15.875	470.4	3890.9	278.35	316.96	355.57	3413	12	64	79062.4	1341.3	1609.6	1743.7	1381.3	1673.1	1867.6	2957.1
39-978	O	28	0.394	38.51	72.4	33.33	38.4	43.48	20	0.472	10.5	1013.7	301.7	362	392.2	310.7	376.3	420.1	665.1
		711.2	10	978.2	3893	162.73	187.51	212.29	3413	12	267	138434.9	1342.1	1610.5	1744.7	1382	1674	1868.6	2958.7
39-710	O	24	0.394	27.94	72.8	37.01	42.24	47.46	20	0.472	3.9	873.8	303.4	364.1	394.4	312.4	378.5	422.5	668.9
		609.6	10	709.6	3915	180.71	206.22	231.72	3413	12	100	119330.6	1349.7	1619.6	1754.6	1389.8	1683.5	1879.2	2975.4
39-843	O	24	0.472	33.17	72.9	38.87	44.67	50.46	20	0.472	9.2	874.4	303.6	364.3	394.7	312.6	378.7	422.7	669.3
		609.6	12	842.6	3917.5	189.8	218.09	246.37	3413	12	233	119406.6	1350.5	1620.6	1755.7	1390.7	1684.5	1880.4	2977.3
39-608	O	20	0.5	23.94	73	45.15	51.49	57.84	20	0.472	3.9	730.3	304.3	365.2	395.6	313.4	379.6	423.7	670.9
		508	12.7	608	3926.6	220.46	251.42	282.38	3413	12	100	99735.7	1353.6	1624.4	1759.7	1393.9	1688.4	1884.8	2984.2
39-739	O	22	0.5	29.09	73.2	41.78	47.8	53.82	20	0.472	7.1	805.5	305.1	366.1	396.6	314.2	380.6	424.8	672.6
		558.8	12.7	738.8	3937	203.98	233.38	262.79	3413	12	180	109998.8	1357.2	1628.7	1764.4	1397.6	1692.9	1889.7	2992.1
39-674	O	24	0.375	26.52	73.2	36.91	42.07	47.23	20	0.472	2.5	878.9	305.2	366.2	396.7	314.3	380.6	424.9	672.8
		609.6	9.525	673.6	3937.6	180.21	205.4	230.59	3413	12	64	120018.7	1357.4	1628.9	1764.7	1397.9	1693.2	1890.1	2992.6
39-1062	O	30	0.375	41.81	73.3	31.66	36.54	41.41	20	0.472	11.8	1099.1	305.3	366.4	396.9	314.4	380.8	425.1	673.1
		762	9.525	1062	3939.3	154.59	178.39	202.18	3413	12	300	150088.5	1358	1629.6	1765.4	1398.5	1693.9	1890.9	2993.9
39-966	O	28	0.394	38.02	73.3	33.51	38.57	43.63	20	0.472	10	1026.9	305.6	366.7	397.3	314.7	381.2	425.5	673.7
		711.2	10	965.7	3943.4	163.62	188.32	213.01	3413	12	254.5	140226.8	1359.4	1631.3	1767.3	1399.9	1695.7	1892.8	2997
40-741	O	20	0.625	29.17	73.5	47.7	54.73	61.75	20	0.472	9.2	735	306.3	367.5	398.1	315.4	382	426.4	675.2
		508	15.875	741	3951.8	232.9	267.2	301.5	3413	12	233	100376.8	1362.4	1634.8	1771.1	1402.9	1699.3	1896.9	3003.4
40-572	O	20	0.472	22.52	73.7	45.13	51.42	57.7	20	0.472	2.5	736.6	306.9	368.3	399	316	382.8	427.3	676.6
		508	12	572	3960.1	220.37	251.05	281.74	3413	12	64	100587.6	1365.2	1638.3	1774.8	1405.8	1702.9	1900.9	3009.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
40-877	O	24	0.5	34.51	73.9	39.81	45.8	51.8	20	0.472	10.5	886.4	307.8	369.3	400.1	316.9	383.9	428.6	678.5
		609.6	12.7	876.6	3971.4	194.39	223.64	252.89	3413	12	267	121049.5	1369.1	1642.9	1779.8	1409.9	1707.7	1906.3	3018.3
40-914	O	28	0.375	35.99	73.9	33.3	38.24	43.19	20	0.472	8	1035.3	308.1	369.7	400.5	317.3	384.3	429	679.3
		711.2	9.525	914.2	3975.7	162.58	186.73	210.87	3413	12	203	141375	1370.6	1644.7	1781.7	1411.4	1709.5	1908.3	3021.5
40-864	O	24	0.5	34.02	74.9	40.11	46.1	52.08	20	0.472	10	899.3	312.2	374.7	405.9	321.5	389.5	434.8	688.4
		609.6	12.7	864.1	4028.9	195.84	225.07	254.29	3413	12	254.5	122800.6	1388.9	1666.7	1805.6	1430.3	1732.4	1933.9	3062
40-944	O	28	0.394	37.17	75	34.01	39.09	44.18	20	0.472	9.2	1050.2	312.6	375.1	406.3	321.9	389.9	435.2	689.1
		711.2	10	944.2	4033.2	166.05	190.88	215.7	3413	12	233	143419.8	1390.4	1668.5	1807.5	1431.8	1734.3	1935.9	3065.2
41-813	O	24	0.472	31.99	75.6	39.89	45.75	51.62	20	0.472	8	906.7	314.8	377.8	409.3	324.2	392.7	438.3	694
		609.6	12	812.6	4062.2	194.75	223.39	252.04	3413	12	203	123814.9	1400.4	1680.5	1820.5	1442.1	1746.7	1949.8	3087.2
41-1029	O	30	0.375	40.51	75.6	32.29	37.19	42.1	20	0.472	10.5	1134.3	315.1	378.1	409.6	324.5	393	438.7	694.6
		762	9.525	1029	4065.7	157.67	181.6	205.53	3413	12	267	154901.8	1401.6	1681.9	1822.1	1443.3	1748.2	1951.5	3089.9
41-891	O	28	0.375	35.09	75.9	33.49	38.34	43.19	20	0.472	7.1	1062	316.1	379.3	410.9	325.5	394.2	440.1	696.8
		711.2	9.525	891.2	4078.3	163.52	187.2	210.88	3413	12	180	145023.6	1405.9	1687.1	1827.7	1447.8	1753.7	1957.6	3099.5
41-521	O	18	0.562	20.52	76.2	52.45	59.71	66.97	20	0.472	2.5	685.6	317.4	380.9	412.7	326.9	395.9	442	699.8
		457.2	14.288	521.2	4095.8	256.08	291.54	327	3413	12	64	93630.5	1412	1694.4	1835.6	1454	1761.2	1966	3112.8
41-1017	O	30	0.375	40.02	76.6	32.46	37.34	42.22	20	0.472	10	1148.3	319	382.8	414.7	328.5	397.9	444.1	703.2
		762	9.525	1016.5	4115.7	158.46	182.3	206.14	3413	12	254.5	156806.7	1418.8	1702.6	1844.5	1461.1	1769.7	1975.5	3127.9
41-711	O	20	0.625	27.99	76.6	49.23	56.39	63.55	20	0.472	8	766.1	319.2	383	414.9	328.7	398.1	444.4	703.7
		508	15.875	711	4118.6	240.37	275.34	310.3	3413	12	203	104612.1	1419.8	1703.8	1845.8	1462.1	1771	1976.9	3130.1
41-674	O	24	0.394	26.52	76.7	38.59	43.96	49.33	20	0.472	2.5	920.5	319.6	383.6	415.5	329.1	398.7	445	704.7
		609.6	10	673.6	4124.3	188.42	214.64	240.86	3413	12	64	125708.1	1421.8	1706.2	1848.3	1464.1	1773.4	1979.7	3134.5
41-1062	O	30	0.394	41.81	76.8	33.01	38.05	43.09	20	0.472	11.8	1151.7	319.9	383.9	415.9	329.4	399	445.4	705.3
		762	10	1062	4128	161.15	185.76	210.37	3413	12	300	157276.8	1423.1	1707.7	1850	1465.4	1775	1981.4	3137.3
41-843	O	24	0.5	33.17	76.8	40.84	46.88	52.92	20	0.472	9.2	922.2	320.2	384.2	416.3	329.7	399.4	445.8	705.9
		609.6	12.7	842.6	4131.7	199.39	228.87	258.36	3413	12	233	125934	1424.4	1709.2	1851.7	1466.8	1776.6	1983.2	3140.1
42-1011	O	28	0.438	39.81	77.5	35.7	41.12	46.55	20	0.472	11.8	1084.6	322.8	387.4	419.6	332.4	402.6	449.5	711.7
		711.2	11.112	1011.2	4165.2	174.31	200.79	227.27	3413	12	300	148116.1	1435.9	1723.1	1866.7	1478.7	1791.1	1999.3	3165.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
42-914	O	28	0.394	35.99	77.5	34.75	39.88	45	20	0.472	8	1084.7	322.8	387.4	419.7	332.4	402.7	449.5	711.7
		711.2	10	914.2	4165.5	169.67	194.7	219.73	3413	12	203	148126.2	1436	1723.2	1866.8	1478.8	1791.2	1999.5	3165.8
42-859	O	22	0.625	33.81	77.5	45.99	52.86	59.74	20	0.472	11.8	852.7	323	387.6	419.9	332.6	402.9	449.7	712
		558.8	15.875	858.8	4167.5	224.52	258.11	291.7	3413	12	300	116438.6	1436.7	1724	1867.7	1479.4	1792	2000.4	3167.3
42-572	O	20	0.5	22.52	77.6	47.52	54.11	60.69	20	0.472	2.5	776.3	323.5	388.2	420.5	333.1	403.5	450.4	713.1
		508	12.7	572	4173.7	232.04	264.18	296.33	3413	12	64	106012.7	1438.8	1726.6	1870.5	1481.7	1794.7	2003.4	3172
42-790	O	24	0.472	31.09	77.8	40.3	46.08	51.87	20	0.472	7.1	933.1	324	388.8	421.2	333.6	404.1	451.1	714.3
		609.6	12	789.6	4180.5	196.74	224.99	253.25	3413	12	180	127421.5	1441.2	1729.4	1873.5	1484.1	1797.6	2006.6	3177.2
42-659	O	22	0.472	25.94	77.9	43.34	49.4	55.46	20	0.472	3.9	856.8	324.5	389.4	421.9	334.2	404.8	451.9	715.5
		558.8	12	658.8	4187.5	211.58	241.17	270.76	3413	12	100	116999	1443.6	1732.3	1876.7	1486.6	1800.6	2010	3182.5
42-995	O	30	0.375	39.17	78.2	32.9	37.81	42.71	20	0.472	9.2	1173.1	325.9	391	423.6	335.6	406.4	453.7	718.4
		762	9.525	995	4204.6	160.65	184.6	208.54	3413	12	233	160195	1449.5	1739.4	1884.3	1492.6	1808	2018.2	3195.5
43-688	O	20	0.625	27.09	79.2	50.01	57.12	64.24	20	0.472	7.1	791.7	329.9	395.8	428.8	339.7	411.4	459.3	727.2
		508	15.875	688	4256.3	244.19	278.91	313.63	3413	12	180	108109.3	1467.3	1760.8	1907.5	1511	1830.2	2043	3234.8
43-1029	O	30	0.394	40.51	79.2	33.68	38.75	43.83	20	0.472	10.5	1188.7	330.2	396.2	429.2	340	411.8	459.7	727.9
		762	10	1029	4260.4	164.43	189.21	213.98	3413	12	267	162320.7	1468.7	1762.5	1909.3	1512.4	1832	2045	3237.9
43-808	O	20	0.75	31.81	79.4	52.35	60.1	67.85	20	0.472	11.8	793.7	330.7	396.9	429.9	340.6	412.5	460.5	729.1
		508	19.05	808	4267.4	255.62	293.44	331.27	3413	12	300	108391.6	1471.1	1765.4	1912.5	1514.9	1835	2048.3	3243.2
43-910	O	24	0.562	35.81	79.5	42.91	49.35	55.78	20	0.472	11.8	953.5	331.1	397.3	430.4	340.9	413	461	729.9
		609.6	14.288	909.6	4272.1	209.52	240.93	272.33	3413	12	300	130212.2	1472.7	1767.3	1914.6	1516.6	1837	2050.6	3246.8
43-891	O	28	0.394	35.09	79.5	34.98	40.02	45.05	20	0.472	7.1	1112.7	331.2	397.4	430.5	341	413.1	461.1	730.1
		711.2	10	891.2	4273	170.79	195.38	219.97	3413	12	180	151949.1	1473.1	1767.7	1915	1516.9	1837.4	2051.1	3247.5
43-813	O	24	0.5	31.99	79.7	41.92	48.05	54.17	20	0.472	8	956.2	332	398.4	431.6	341.9	414.1	462.3	732
		609.6	12.7	812.6	4284.2	204.69	234.58	264.46	3413	12	203	130583.3	1476.9	1772.3	1920	1520.9	1842.2	2056.4	3256
43-1113	O	32	0.375	43.81	79.7	31.97	36.84	41.72	20	0.472	11.8	1276	332.3	398.7	432	342.2	414.5	462.7	732.5
		812.8	9.525	1112.8	4287.5	156.12	179.89	203.67	3413	12	300	174245.1	1478.1	1773.7	1921.5	1522.1	1843.6	2058	3258.5
43-978	O	28	0.438	38.51	80.1	36.5	41.97	47.44	20	0.472	10.5	1121.2	333.7	400.4	433.8	343.6	416.2	464.6	735.7
		711.2	11.112	978.2	4305.8	178.21	204.93	231.64	3413	12	267	153112.9	1484.4	1781.2	1929.7	1528.5	1851.5	2066.8	3272.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
43-1017	O	30	0.394	40.02	80.2	33.86	38.91	43.97	20	0.472	10	1203.3	334.2	401.1	434.5	344.2	416.9	465.4	736.9
		762	10	1016.5	4312.8	165.31	190	214.69	3413	12	254.5	164316.8	1486.8	1784.1	1932.8	1531	1854.5	2070.1	3277.7
43-710	O	24	0.438	27.94	80.5	40.74	46.43	52.12	20	0.472	3.9	965.7	335.3	402.4	435.9	345.3	418.3	466.9	739.2
		609.6	11.112	709.6	4326.7	198.91	226.69	254.48	3413	12	100	131878.2	1491.6	1789.9	1939.1	1536	1860.5	2076.8	3288.3
43-826	O	22	0.625	32.51	80.6	47.34	54.34	61.33	20	0.472	10.5	886.7	335.9	403.1	436.6	345.9	419	467.7	740.5
		558.8	15.875	825.8	4334	231.15	265.3	299.45	3413	12	267	121091.6	1494.1	1792.9	1942.3	1538.6	1863.6	2080.3	3293.8
43-965	O	30	0.375	37.99	80.6	33.57	38.51	43.45	20	0.472	8	1209.6	336	403.2	436.8	346	419.1	467.8	740.7
		762	9.525	965	4335.3	163.91	188.03	212.14	3413	12	203	165175.1	1494.5	1793.5	1942.9	1539	1864.2	2080.9	3294.8
44-966	O	28	0.438	38.02	81.1	36.72	42.18	47.64	20	0.472	10	1135.7	338	405.6	439.4	348.1	421.6	470.6	745.2
		711.2	11.112	965.7	4361.5	179.31	205.96	232.62	3413	12	254.5	155094.7	1503.6	1804.3	1954.6	1548.3	1875.4	2093.5	3314.7
44-608	O	20	0.562	23.94	81.4	50.23	57.2	64.18	20	0.472	3.9	813.9	339.1	407	440.9	349.2	423	472.2	747.6
		508	14.288	608	4375.9	245.24	279.3	313.36	3413	12	100	111147.2	1508.5	1810.2	1961.1	1553.4	1881.6	2100.4	3325.7
44-813	O	22	0.625	32.02	81.9	47.78	54.78	61.78	20	0.472	10	900.4	341	409.3	443.4	351.2	425.4	474.9	751.9
		558.8	15.875	813.3	4400.6	233.26	267.46	301.66	3413	12	254.5	122952.7	1517.1	1820.5	1972.2	1562.2	1892.3	2112.3	3344.5
44-995	O	30	0.394	39.17	82	34.34	39.42	44.5	20	0.472	9.2	1229.3	341.5	409.8	443.9	351.6	425.9	475.4	752.8
		762	10	995	4406	167.65	192.46	217.28	3413	12	233	167867.3	1518.9	1822.7	1974.6	1564.1	1894.6	2114.9	3348.5
44-790	O	24	0.5	31.09	82	42.39	48.44	54.49	20	0.472	7.1	984.1	341.7	410	444.2	351.9	426.2	475.8	753.3
		609.6	12.7	789.6	4409	206.97	236.5	266.03	3413	12	180	134387	1520	1823.9	1975.9	1565.2	1895.9	2116.3	3350.9
44-659	O	22	0.5	25.94	82.1	45.63	51.98	58.32	20	0.472	3.9	903.3	342.2	410.6	444.8	352.4	426.8	476.4	754.3
		558.8	12.7	658.8	4415	222.78	253.77	284.76	3413	12	100	123356.3	1522	1826.4	1978.6	1567.3	1898.5	2119.2	3355.4
44-1080	O	32	0.375	42.51	82.2	32.59	37.48	42.38	20	0.472	10.5	1315	342.4	410.9	445.2	352.6	427.1	476.8	754.9
		812.8	9.525	1079.8	4418.6	159.1	183	206.91	3413	12	267	179570.3	1523.2	1827.9	1980.2	1568.6	1900	2120.9	3358.1
44-623	O	22	0.472	24.52	82.4	45.41	51.68	57.94	20	0.472	2.5	906.3	343.3	411.9	446.3	353.5	428.2	478	756.8
		558.8	12	622.8	4429.6	221.7	252.3	282.9	3413	12	64	123762	1527	1832.4	1985.1	1572.5	1904.7	2126.2	3366.5
44-877	O	24	0.562	34.51	82.5	44.08	50.6	57.13	20	0.472	10.5	989.4	343.5	412.3	446.6	353.8	428.5	478.3	757.4
		609.6	14.288	876.6	4432.9	215.2	247.06	278.91	3413	12	267	135114.1	1528.2	1833.8	1986.6	1573.7	1906.1	2127.8	3369
44-942	O	30	0.375	37.09	82.6	33.76	38.61	43.46	20	0.472	7.1	1239.1	344.2	413	447.4	354.4	429.3	479.2	758.8
		762	9.525	942	4441.2	164.83	188.5	212.17	3413	12	180	169208.1	1531	1837.2	1990.3	1576.6	1909.7	2131.8	3375.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
44-775	O	20	0.75	30.51	82.8	54.07	61.98	69.89	20	0.472	10.5	827.5	344.8	413.8	448.2	355.1	430.1	480.1	760.1
		508	19.05	775	4449.1	264.01	302.61	341.22	3413	12	267	113007	1533.8	1840.5	1993.9	1579.4	1913.1	2135.6	3381.3
45-944	O	28	0.438	37.17	83	37.3	42.79	48.29	20	0.472	9.2	1161.6	345.7	414.9	449.4	356	431.2	481.4	762.2
		711.2	11.112	944.2	4460.8	182.09	208.92	235.76	3413	12	233	158626.4	1537.8	1845.4	1999.2	1583.6	1918.1	2141.2	3390.2
45-1067	O	32	0.375	42.02	83.1	32.74	37.62	42.5	20	0.472	10	1330.4	346.4	415.7	450.4	356.8	432.1	482.4	763.8
		812.8	9.525	1067.3	4470.3	159.86	183.68	207.51	3413	12	254.5	181673.4	1541.1	1849.3	2003.4	1587	1922.2	2145.7	3397.4
45-811	O	28	0.375	31.94	83.3	35.8	40.8	45.8	20	0.472	3.9	1166.7	347.2	416.7	451.4	357.6	433.1	483.5	765.5
		711.2	9.525	811.2	4480.5	174.8	199.2	223.6	3413	12	100	159325.7	1544.6	1853.5	2008	1590.6	1926.6	2150.6	3405.2
45-1011	O	28	0.472	39.81	83.3	38.14	43.87	49.6	20	0.472	11.8	1166.9	347.3	416.7	451.5	357.6	433.2	483.5	765.6
		711.2	12	1011.2	4481	186.22	214.19	242.16	3413	12	300	159344.3	1544.8	1853.7	2008.2	1590.8	1926.8	2150.9	3405.6
45-1113	O	32	0.394	43.81	83.6	33.34	38.38	43.43	20	0.472	11.8	1337.2	348.2	417.9	452.7	358.6	434.4	484.9	767.7
		812.8	10	1112.8	4493.4	162.8	187.41	212.02	3413	12	300	182613.2	1549.1	1858.9	2013.8	1595.2	1932.2	2156.8	3415
45-864	O	24	0.562	34.02	83.6	44.44	50.96	57.49	20	0.472	10	1003.7	348.5	418.2	453.1	358.9	434.7	485.3	768.3
		609.6	14.288	864.1	4497	216.96	248.82	280.69	3413	12	254.5	137068.6	1550.3	1860.3	2015.4	1596.4	1933.7	2158.6	3417.7
45-521	O	18	0.625	20.52	83.8	57.71	65.63	73.54	20	0.472	2.5	753.9	349	418.8	453.7	359.4	435.3	485.9	769.4
		457.2	15.875	521.2	4503.3	281.74	320.41	359.07	3413	12	64	102945.3	1552.5	1862.9	2018.2	1598.7	1936.4	2161.6	3422.5
45-792	O	22	0.625	31.17	84.1	48.76	55.85	62.93	20	0.472	9.2	924.8	350.3	420.4	455.4	360.7	436.9	487.8	772.3
		558.8	15.875	791.8	4520.1	238.05	272.66	307.27	3413	12	233	126291.3	1558.2	1869.9	2025.7	1604.6	1943.6	2169.6	3435.3
45-763	O	20	0.75	30.02	84.1	54.65	62.58	70.51	20	0.472	10	841.1	350.5	420.5	455.6	360.9	437.1	488	772.6
		508	19.05	762.5	4522	266.8	305.53	344.25	3413	12	254.5	114859.6	1558.9	1870.7	2026.6	1605.3	1944.5	2170.6	3436.7
45-965	O	30	0.394	37.99	84.5	35.05	40.17	45.29	20	0.472	8	1267.5	352.1	422.5	457.7	362.6	439.2	490.2	776.2
		762	10	965	4542.9	171.13	196.14	221.15	3413	12	203	173086	1566.1	1879.3	2036	1612.7	1953.5	2180.6	3452.6
45-470	O	16	0.75	18.52	84.6	67.14	76.32	85.49	20	0.472	2.5	676.9	352.6	423.1	458.3	363.1	439.8	490.9	777.3
		406.4	19.05	470.4	4549.3	327.81	372.61	417.41	3413	12	64	92441.8	1568.3	1882	2038.8	1615	1956.2	2183.7	3457.5
46-674	O	24	0.438	26.52	84.8	42.52	48.38	54.24	20	0.472	2.5	1017.3	353.2	423.9	459.2	363.8	440.6	491.8	778.7
		609.6	11.112	673.6	4558	207.59	236.21	264.82	3413	12	64	138926.4	1571.3	1885.6	2042.7	1618.1	1959.9	2187.8	3464
46-1046	O	32	0.375	41.17	84.9	33.18	38.08	42.97	20	0.472	9.2	1357.7	353.6	424.3	459.6	364.1	441	492.3	779.5
		812.8	9.525	1045.8	4562.2	161.98	185.9	209.82	3413	12	233	185408.3	1572.8	1887.3	2044.6	1619.6	1961.8	2189.9	3467.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
46-1062	O	30	0.438	41.81	84.9	36.14	41.57	47.01	20	0.472	11.8	1274.2	354	424.7	460.1	364.5	441.5	492.8	780.3
		762	11.112	1062	4567.1	176.46	202.98	229.51	3413	12	300	174007.5	1574.5	1889.4	2046.8	1621.3	1963.9	2192.2	3471
46-914	O	28	0.438	35.99	85.7	38.14	43.7	49.25	20	0.472	8	1199.7	357.1	428.5	464.2	367.7	445.4	497.2	787.2
		711.2	11.112	914.2	4607.2	186.24	213.34	240.44	3413	12	203	163831.8	1588.3	1905.9	2064.8	1635.6	1981.1	2211.5	3501.5
46-843	O	24	0.562	33.17	85.8	45.27	51.87	58.46	20	0.472	9.2	1029.3	357.4	428.9	464.6	368.1	445.8	497.6	787.9
		609.6	14.288	842.6	4611.7	221.04	253.23	285.43	3413	12	233	140566.1	1589.8	1907.8	2066.8	1637.2	1983.1	2213.6	3504.9
46-1080	O	32	0.394	42.51	86.1	34	39.07	44.14	20	0.472	10.5	1378.1	358.9	430.7	466.5	369.6	447.6	499.7	791.2
		812.8	10	1079.8	4630.8	165.98	190.75	215.52	3413	12	267	188194.1	1596.4	1915.7	2075.3	1643.9	1991.2	2222.8	3519.4
46-978	O	28	0.472	38.51	86.2	39.02	44.81	50.6	20	0.472	10.5	1206.2	359	430.8	466.7	369.7	447.8	499.8	791.4
		711.2	12	978.2	4632.2	190.53	218.78	247.04	3413	12	267	164719.9	1596.9	1916.3	2075.9	1644.4	1991.8	2223.4	3520.4
46-1164	O	34	0.375	45.81	86.3	32.26	37.13	41.99	20	0.472	11.8	1466.7	359.5	431.4	467.3	370.2	448.4	500.5	792.5
		863.6	9.525	1163.6	4638.5	157.5	181.27	205.03	3413	12	300	200292.2	1599.1	1918.9	2078.8	1646.7	1994.6	2226.5	3525.3
47-572	O	20	0.562	22.52	86.5	52.92	60.18	67.44	20	0.472	2.5	865.1	360.5	432.6	468.6	371.2	449.6	501.9	794.7
		508	14.288	572	4651.3	258.37	293.81	329.25	3413	12	64	118142.5	1603.5	1924.2	2084.5	1651.2	2000	2232.6	3535
47-710	O	24	0.472	27.94	86.5	43.7	49.77	55.83	20	0.472	3.9	1038.3	360.5	432.6	468.7	371.2	449.7	502	794.8
		609.6	12	709.6	4651.8	213.39	242.98	272.57	3413	12	100	141786.9	1603.7	1924.4	2084.7	1651.4	2000.3	2232.9	3535.4
47-741	O	20	0.75	29.17	86.6	55.89	63.94	71.99	20	0.472	9.2	865.5	360.6	432.8	468.8	371.4	449.8	502.1	795
		508	19.05	741	4653.2	272.89	312.19	351.48	3413	12	233	118192.2	1604.1	1925	2085.4	1651.9	2000.9	2233.6	3536.5
47-942	O	30	0.394	37.09	86.6	35.27	40.31	45.35	20	0.472	7.1	1298.4	360.7	432.8	468.9	371.4	449.9	502.2	795.1
		762	10	942	4653.9	172.22	196.81	221.41	3413	12	180	177312.1	1604.4	1925.2	2085.7	1652.1	2001.2	2233.9	3536.9
47-623	O	22	0.5	24.52	86.9	47.83	54.4	60.97	20	0.472	2.5	955.5	361.9	434.3	470.5	372.7	451.5	504	797.9
		558.8	12.7	622.8	4670.2	233.55	265.62	297.7	3413	12	64	130486.7	1610	1932	2093	1657.9	2008.2	2241.7	3549.4
47-1067	O	32	0.394	42.02	87.1	34.17	39.23	44.28	20	0.472	10	1394.3	363.1	435.7	472	373.9	452.9	505.5	800.5
		812.8	10	1067.3	4685	166.83	191.52	216.21	3413	12	254.5	190398.2	1615.1	1938.1	2099.6	1663.2	2014.5	2248.8	3560.6
47-775	O	28	0.375	30.52	87.2	37.12	42.23	47.34	20	0.472	2.5	1220.9	363.4	436	472.4	374.2	453.2	505.9	801.1
		711.2	9.525	775.2	4688.5	181.22	206.19	231.16	3413	12	64	166724.7	1616.3	1939.6	2101.2	1664.4	2016.1	2250.5	3563.3
47-966	O	28	0.472	38.02	87.3	39.28	45.06	50.84	20	0.472	10	1221.8	363.6	436.4	472.7	374.5	453.6	506.3	801.7
		711.2	12	965.7	4692.1	191.78	220	248.22	3413	12	254.5	166852	1617.6	1941.1	2102.8	1665.7	2017.6	2252.2	3566

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
47-811	O	28	0.394	31.94	87.3	37.44	42.64	47.84	20	0.472	3.9	1222.4	363.8	436.6	473	374.6	453.8	506.6	802.1
		711.2	10	811.2	4694.4	182.79	208.19	233.59	3413	12	100	166934.2	1618.4	1942	2103.9	1666.5	2018.6	2253.3	3567.8
47-1016	O	32	0.375	39.99	87.4	33.82	38.75	43.68	20	0.472	8	1397.8	364	436.8	473.2	374.9	454	506.8	802.5
		812.8	9.525	1015.8	4696.9	165.12	189.19	213.27	3413	12	203	190884	1619.2	1943.1	2105	1667.4	2019.7	2254.5	3569.7
47-762	O	22	0.625	29.99	87.4	50.23	57.45	64.66	20	0.472	8	961.2	364.1	436.9	473.3	374.9	454.2	507	802.7
		558.8	15.875	761.8	4698.1	245.23	280.47	315.71	3413	12	203	131264.7	1619.6	1943.5	2105.5	1667.8	2020.2	2255.1	3570.5
47-910	O	24	0.625	35.81	87.6	47	53.94	60.89	20	0.472	11.8	1051.2	365	438	474.5	375.9	455.3	508.2	804.6
		609.6	15.875	909.6	4709.5	229.47	263.37	297.27	3413	12	300	143545.5	1623.5	1948.2	2110.6	1671.9	2025.1	2260.6	3579.2
47-1029	O	30	0.438	40.51	87.7	36.92	42.39	47.87	20	0.472	10.5	1315.1	365.3	438.4	474.9	376.2	455.7	508.6	805.3
		762	11.112	1029	4713.6	180.24	206.99	233.74	3413	12	267	179587.9	1625	1949.9	2112.4	1673.3	2026.8	2262.5	3582.3
47-891	O	28	0.438	35.09	87.9	38.46	43.93	49.4	20	0.472	7.1	1230.7	366.3	439.5	476.2	377.2	456.9	510	807.5
		711.2	11.112	891.2	4726.1	187.78	214.5	241.21	3413	12	180	168059.9	1629.3	1955.1	2118	1677.8	2032.2	2268.5	3591.8
47-1011	O	28	0.5	39.81	87.9	40.06	46.03	52	20	0.472	11.8	1231.3	366.4	439.7	476.4	377.4	457.1	510.2	807.9
		711.2	12.7	1011.2	4728.3	195.6	224.74	253.88	3413	12	300	168138.8	1630	1956	2119	1678.6	2033.2	2269.6	3593.5
48-1017	O	30	0.438	40.02	88.8	37.13	42.6	48.07	20	0.472	10	1331.3	369.8	443.8	480.7	380.8	461.3	514.9	815.2
		762	11.112	1016.5	4771.6	181.3	208	234.69	3413	12	254.5	181796.4	1644.9	1973.9	2138.4	1693.9	2051.8	2290.3	3626.4
48-1131	O	34	0.375	44.51	88.8	32.85	37.74	42.64	20	0.472	10.5	1509.5	370	444	481	381	461.5	515.1	815.6
		863.6	9.525	1130.6	4773.9	160.39	184.28	208.17	3413	12	267	206138.3	1645.8	1974.9	2139.5	1694.7	2052.8	2291.5	3628.2
48-1046	O	32	0.394	41.17	88.9	34.63	39.71	44.79	20	0.472	9.2	1422.9	370.6	444.7	481.7	381.6	462.2	515.9	816.9
		812.8	10	1045.8	4781.3	169.09	193.9	218.71	3413	12	233	194312.5	1648.3	1978	2142.8	1697.4	2056	2295	3633.8
48-813	O	24	0.562	31.99	88.9	46.52	53.22	59.92	20	0.472	8	1067.3	370.6	444.7	481.8	381.6	462.3	516	817
		609.6	14.288	812.6	4782	227.15	259.84	292.53	3413	12	203	145755.6	1648.5	1978.2	2143.1	1697.6	2056.3	2295.4	3634.3
48-944	O	28	0.472	37.17	89.3	39.91	45.73	51.55	20	0.472	9.2	1249.7	371.9	446.3	483.5	383	463.9	517.8	819.9
		711.2	12	944.2	4799	194.85	223.28	251.71	3413	12	233	170651.3	1654.4	1985.3	2150.7	1703.6	2063.6	2303.5	3647.2
48-993	O	32	0.375	39.09	89.4	34	38.85	43.69	20	0.472	7.1	1430.2	372.4	446.9	484.2	383.5	464.6	518.6	821.1
		812.8	9.525	992.8	4805.8	166.01	189.67	213.34	3413	12	180	195306.2	1656.7	1988.1	2153.7	1706	2066.5	2306.8	3652.4
48-608	O	20	0.625	23.94	89.6	55.27	62.88	70.48	20	0.472	3.9	895.8	373.3	447.9	485.2	384.4	465.6	519.7	822.9
		508	15.875	608	4816.3	269.85	306.99	344.12	3413	12	100	122334.2	1660.4	1992.4	2158.5	1709.8	2071	2311.8	3660.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
48-1118	O	34	0.375	44.02	89.8	33	37.88	42.76	20	0.472	10	1526.4	374.1	448.9	486.4	385.3	466.6	520.9	824.8
		863.6	9.525	1118.1	4827.3	161.14	184.94	208.75	3413	12	254.5	208442.9	1664.2	1997	2163.4	1713.7	2075.7	2317.1	3668.7
48-739	O	22	0.625	29.09	90.1	50.99	58.16	65.33	20	0.472	7.1	991.2	375.4	450.5	488.1	386.6	468.3	522.7	827.7
		558.8	15.875	738.8	4844.4	248.93	283.96	318.98	3413	12	180	135351.2	1670	2004	2171	1719.7	2083.1	2325.3	3681.7
48-711	O	20	0.75	27.99	90.2	57.77	66	74.22	20	0.472	8	902	375.8	451	488.6	387	468.8	523.3	828.6
		508	19.05	711	4849.6	282.05	322.22	362.4	3413	12	203	123179.2	1671.8	2006.2	2173.4	1721.6	2085.3	2327.8	3685.7
49-862	O	30	0.375	33.94	90.3	35.96	40.95	45.93	20	0.472	3.9	1354.1	376.1	451.4	489	387.3	469.2	523.7	829.2
		762	9.525	862	4853.3	175.57	199.92	224.27	3413	12	100	184911.8	1673.1	2007.7	2175.1	1722.9	2086.9	2329.6	3688.5
49-1164	O	34	0.394	45.81	90.4	33.65	38.69	43.73	20	0.472	11.8	1537.3	376.8	452.1	489.8	388	470	524.6	830.7
		863.6	10	1163.6	4861.8	164.3	188.92	213.53	3413	12	300	209932.1	1676	2011.2	2178.9	1725.9	2090.6	2333.7	3695
49-995	O	30	0.438	39.17	90.7	37.68	43.19	48.69	20	0.472	9.2	1360	377.8	453.3	491.1	389	471.2	526	832.9
		762	11.112	995	4874.7	183.99	210.85	237.71	3413	12	233	185724.6	1680.5	2016.6	2184.6	1730.5	2096.1	2339.8	3704.7
49-877	O	24	0.625	34.51	90.9	48.32	55.37	62.43	20	0.472	10.5	1090.7	378.7	454.5	492.3	390	472.4	527.3	834.9
		609.6	15.875	876.6	4886.8	235.91	270.35	304.79	3413	12	267	148949.3	1684.7	2021.6	2190.1	1734.8	2101.3	2345.7	3714
49-978	O	28	0.5	38.51	90.9	41.01	47.04	53.08	20	0.472	10.5	1272.8	378.8	454.6	492.4	390.1	472.5	527.4	835.1
		711.2	12.7	978.2	4887.8	200.22	229.69	259.15	3413	12	267	173811.1	1685	2022	2190.5	1735.2	2101.8	2346.2	3714.7
49-674	O	24	0.472	26.52	91.1	45.64	51.89	58.14	20	0.472	2.5	1093.8	379.8	455.7	493.7	391.1	473.7	528.8	837.3
		609.6	12	673.6	4900.4	222.84	253.36	283.88	3413	12	64	149364.6	1689.4	2027.2	2196.2	1739.6	2107.2	2352.2	3724.3
49-710	O	24	0.5	27.94	91.3	46.04	52.39	58.74	20	0.472	3.9	1095	380.2	456.3	494.3	391.5	474.3	529.4	838.2
		609.6	12.7	709.6	4906.1	224.77	255.78	286.79	3413	12	100	149537.8	1691.3	2029.6	2198.7	1741.7	2109.6	2354.9	3728.6
49-859	O	22	0.75	33.81	91.3	53.81	61.67	69.53	20	0.472	11.8	1004.3	380.4	456.5	494.5	391.7	474.5	529.7	838.7
		558.8	19.05	858.8	4908.6	262.73	301.1	339.46	3413	12	300	137145.5	1692.2	2030.6	2199.8	1742.5	2110.7	2356.1	3730.5
49-775	O	28	0.394	30.52	91.4	38.83	44.16	49.49	20	0.472	2.5	1279.2	380.7	456.9	494.9	392	474.9	530.1	839.3
		711.2	10	775.2	4912.4	189.58	215.6	241.61	3413	12	64	174686.5	1693.5	2032.2	2201.6	1743.9	2112.4	2358	3733.5
49-1062	O	30	0.472	41.81	91.4	38.64	44.38	50.13	20	0.472	11.8	1371.2	380.9	457.1	495.1	392.2	475.1	530.3	839.7
		762	12	1062	4914.6	188.64	216.69	244.73	3413	12	300	187245.8	1694.2	2033.1	2202.5	1744.7	2113.3	2359	3735.1
49-790	O	24	0.562	31.09	91.5	47.12	53.76	60.4	20	0.472	7.1	1098.4	381.4	457.7	495.8	392.8	475.7	531	840.8
		609.6	14.288	789.6	4921.3	230.08	262.5	294.92	3413	12	180	150001.3	1696.6	2035.9	2205.5	1747.1	2116.2	2362.2	3740.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
49-1097	O	34	0.375	43.17	91.5	33.42	38.32	43.21	20	0.472	9.2	1556.3	381.5	457.7	495.9	392.8	475.8	531.1	840.9
		863.6	9.525	1096.6	4921.9	163.18	187.08	210.98	3413	12	233	212529.6	1696.8	2036.1	2205.8	1747.3	2116.4	2362.5	3740.7
49-1016	O	32	0.394	39.99	91.6	35.32	40.44	45.56	20	0.472	8	1464.9	381.5	457.8	495.9	392.9	475.8	531.2	841
		812.8	10	1015.8	4922.5	172.43	197.43	222.42	3413	12	203	200051.2	1697	2036.4	2206.1	1747.5	2116.7	2362.8	3741.1
50-966	O	28	0.5	38.02	92.1	41.29	47.32	53.35	20	0.472	10	1289.3	383.7	460.5	498.8	395.1	478.6	534.3	845.9
		711.2	12.7	965.7	4951.1	201.6	231.04	260.49	3413	12	254.5	176060.9	1706.8	2048.2	2218.9	1757.6	2129	2376.5	3762.8
50-914	O	28	0.472	35.99	92.2	40.84	46.73	52.62	20	0.472	8	1290.7	384.1	461	499.4	395.6	479.1	534.8	846.8
		711.2	12	914.2	4956.5	199.42	228.17	256.92	3413	12	203	176251.4	1708.7	2050.4	2221.3	1759.5	2131.3	2379.1	3766.9
50-864	O	24	0.625	34.02	92.2	48.74	55.8	62.87	20	0.472	10	1106.5	384.2	461	499.5	395.6	479.2	535	847
		609.6	15.875	864.1	4957.5	237.96	272.45	306.94	3413	12	254.5	151104	1709	2050.8	2221.7	1759.9	2131.7	2379.6	3767.7
50-1113	O	32	0.438	43.81	92.5	36.54	41.98	47.42	20	0.472	11.8	1479.9	385.4	462.5	501	396.9	480.7	536.6	849.6
		812.8	11.112	1112.8	4972.8	178.41	204.98	231.54	3413	12	300	202093.8	1714.3	2057.2	2228.6	1765.3	2138.3	2386.9	3779.3
50-1214	O	36	0.375	47.81	92.9	32.52	37.39	42.25	20	0.472	11.8	1671.3	386.9	464.3	502.9	398.4	482.6	538.7	852.9
		914.4	9.525	1214.4	4992	158.78	182.53	206.28	3413	12	300	228232	1720.9	2065.1	2237.2	1772.1	2146.5	2396.1	3793.9
50-1131	O	34	0.394	44.51	93.1	34.28	39.36	44.43	20	0.472	10.5	1582.2	387.8	465.3	504.1	399.3	483.7	539.9	854.9
		863.6	10	1130.6	5003.7	167.39	192.15	216.91	3413	12	267	216059.6	1725	2070	2242.5	1776.3	2151.6	2401.8	3802.8
50-688	O	20	0.75	27.09	93.2	58.84	67.05	75.26	20	0.472	7.1	932.2	388.4	466.1	504.9	400	484.5	540.8	856.3
		508	19.05	688	5011.7	287.26	327.36	367.47	3413	12	180	127297.1	1727.7	2073.3	2246	1779.2	2155	2405.6	3808.9
50-965	O	30	0.438	37.99	93.5	38.5	44.05	49.61	20	0.472	8	1402.3	389.5	467.4	506.4	401.1	485.9	542.4	858.8
		762	11.112	965	5026.2	187.98	215.09	242.21	3413	12	203	191498.4	1732.7	2079.3	2252.5	1784.3	2161.3	2412.6	3819.9
50-993	O	32	0.394	39.09	93.7	35.54	40.57	45.61	20	0.472	7.1	1498.9	390.3	468.4	507.4	402	486.9	543.5	860.5
		812.8	10	992.8	5036.6	173.5	198.1	222.7	3413	12	180	204685.7	1736.3	2083.5	2257.2	1788	2165.7	2417.5	3827.8
51-1118	O	34	0.394	44.02	94.1	34.45	39.51	44.57	20	0.472	10	1599.9	392.1	470.5	509.8	403.8	489.1	546	864.5
		863.6	10	1118.1	5059.6	168.21	192.9	217.59	3413	12	254.5	218475.1	1744.2	2093.1	2267.5	1796.2	2175.6	2428.6	3845.3
51-1067	O	34	0.375	41.99	94.1	34.04	38.97	43.89	20	0.472	8	1600.1	392.2	470.6	509.8	403.9	489.2	546.1	864.6
		863.6	9.525	1066.6	5060.4	166.2	190.25	214.3	3413	12	203	218507.4	1744.5	2093.4	2267.9	1796.4	2176	2429	3845.9
51-944	O	28	0.5	37.17	94.2	41.97	48.04	54.12	20	0.472	9.2	1318.6	392.4	470.9	510.2	404.1	489.5	546.4	865.2
		711.2	12.7	944.2	5063.8	204.89	234.58	264.26	3413	12	233	180069.9	1745.7	2094.8	2269.4	1797.7	2177.4	2430.6	3848.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
51-826	O	30	0.375	32.52	94.2	37.2	42.3	47.39	20	0.472	2.5	1413.1	392.5	471	510.3	404.2	489.6	546.5	865.4
		762	9.525	826	5064.9	181.63	206.51	231.39	3413	12	64	192970.9	1746	2095.3	2269.9	1798	2177.9	2431.1	3849.3
51-1029	O	30	0.472	40.51	94.3	39.49	45.29	51.09	20	0.472	10.5	1415.1	393.1	471.7	511	404.8	490.3	547.3	866.6
		762	12	1029	5072.2	192.81	221.13	249.45	3413	12	267	193250.7	1748.6	2098.3	2273.2	1800.6	2181	2434.7	3854.9
51-843	O	24	0.625	33.17	94.6	49.68	56.83	63.97	20	0.472	9.2	1134.7	394	472.8	512.2	405.7	491.5	548.6	868.6
		609.6	15.875	842.6	5084	242.58	277.47	312.35	3413	12	233	154959.6	1752.6	2103.2	2278.4	1804.8	2186.1	2440.3	3863.8
51-891	O	28	0.472	35.09	94.6	41.23	47.05	52.87	20	0.472	7.1	1324	394	472.8	512.3	405.8	491.5	548.6	868.7
		711.2	12	891.2	5084.4	201.3	229.71	258.11	3413	12	180	180800	1752.8	2103.3	2278.6	1804.9	2186.3	2440.5	3864.1
51-862	O	30	0.394	33.94	94.6	37.61	42.81	48	20	0.472	3.9	1418.9	394.1	473	512.4	405.9	491.6	548.8	868.9
		762	10	862	5085.8	183.64	209	234.36	3413	12	100	193768	1753.3	2103.9	2279.2	1805.4	2186.9	2441.2	3865.2
51-826	O	22	0.75	32.51	94.9	55.48	63.49	71.51	20	0.472	10.5	1044.4	395.6	474.7	514.3	407.4	493.5	550.8	872.2
		558.8	19.05	825.8	5104.7	270.89	310.01	349.13	3413	12	267	142626	1759.8	2111.7	2287.7	1812.2	2195	2450.3	3879.6
51-572	O	20	0.625	22.52	95.2	58.28	66.21	74.13	20	0.472	2.5	952.2	396.8	476.1	515.8	408.6	494.9	552.4	874.7
		508	15.875	572	5119.4	284.54	323.25	361.95	3413	12	64	130033.6	1764.9	2117.8	2294.3	1817.4	2201.4	2457.3	3890.8
51-1080	O	32	0.438	42.51	95.3	37.29	42.78	48.26	20	0.472	10.5	1525.1	397.2	476.6	516.3	409	495.4	553	875.6
		812.8	11.112	1079.8	5124.8	182.07	208.85	235.63	3413	12	267	208270.1	1766.7	2120	2296.7	1819.3	2203.6	2459.9	3894.8
51-1181	O	36	0.375	46.51	95.4	33.09	37.98	42.87	20	0.472	10.5	1718	397.7	477.2	517	409.5	496	553.7	876.7
		914.4	9.525	1181.4	5131.4	161.57	185.45	209.32	3413	12	267	234607.2	1769	2122.8	2299.7	1821.6	2206.5	2463.1	3899.9
51-1017	O	30	0.472	40.02	95.5	39.74	45.53	51.33	20	0.472	10	1432.5	397.9	477.5	517.3	409.8	496.3	554.1	877.3
		762	12	1016.5	5134.6	194.03	222.32	250.6	3413	12	254.5	195627.2	1770.1	2124.1	2301.1	1822.8	2207.9	2464.6	3902.3
51-910	O	24	0.688	35.81	95.6	51.06	58.51	65.97	20	0.472	11.8	1147.2	398.3	478	517.8	410.2	496.9	554.6	878.2
		609.6	17.462	909.6	5139.8	249.31	285.7	322.08	3413	12	300	156661.2	1771.9	2126.3	2303.4	1824.6	2210.1	2467.1	3906.2
51-942	O	30	0.438	37.09	95.8	38.81	44.29	49.77	20	0.472	7.1	1436.6	399	478.9	518.8	410.9	497.7	555.6	879.7
		762	11.112	942	5148.9	189.48	216.23	242.98	3413	12	180	196174.1	1775	2130	2307.5	1827.9	2214	2471.5	3913.2
52-1097	O	34	0.394	43.17	96	34.9	39.98	45.06	20	0.472	9.2	1631.2	399.8	479.8	519.8	411.7	498.7	556.7	881.4
		863.6	10	1096.6	5158.8	170.39	195.2	220	3413	12	233	222758.5	1778.4	2134.1	2312	1831.4	2218.3	2476.2	3920.7
52-674	O	24	0.5	26.52	96.1	48.1	54.66	61.21	20	0.472	2.5	1153.6	400.5	480.7	520.7	412.5	499.6	557.7	883
		609.6	12.7	673.6	5168.3	234.83	266.85	298.87	3413	12	64	157529.7	1781.7	2138	2316.2	1834.7	2222.4	2480.8	3927.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
52-1044	O	34	0.375	41.09	96.2	34.22	39.07	43.91	20	0.472	7.1	1635.4	400.8	481	521.1	412.8	500	558.1	883.6
		863.6	9.525	1043.6	5171.9	167.08	190.73	214.39	3413	12	180	223323.1	1783	2139.5	2317.8	1836	2223.9	2482.5	3930.7
52-813	O	22	0.75	32.02	96.4	56.04	64.08	72.11	20	0.472	10	1060.5	401.7	482	522.2	413.7	501	559.3	885.6
		558.8	19.05	813.3	5183.2	273.61	312.85	352.09	3413	12	254.5	144818.1	1786.8	2144.2	2322.9	1840	2228.8	2487.9	3939.2
52-1067	O	32	0.438	42.02	96.4	37.5	42.98	48.45	20	0.472	10	1543	401.8	482.2	522.4	413.8	501.2	559.5	885.8
		812.8	11.112	1067.3	5184.8	183.11	209.84	236.56	3413	12	254.5	210709.3	1787.4	2144.9	2323.6	1840.6	2229.5	2488.7	3940.4
52-1169	O	36	0.375	46.02	96.5	33.24	38.12	42.99	20	0.472	10	1736.4	401.9	482.3	522.5	413.9	501.3	559.6	886.1
		914.4	9.525	1168.9	5186.3	162.3	186.09	209.89	3413	12	254.5	237116.1	1787.9	2145.5	2324.3	1841.1	2230.1	2489.4	3941.6
52-1062	O	30	0.5	41.81	96.5	40.6	46.59	52.58	20	0.472	11.8	1447.1	402	482.4	522.6	413.9	501.4	559.7	886.2
		762	12.7	1062	5186.9	198.23	227.47	256.72	3413	12	300	197619.6	1788.1	2145.7	2324.5	1841.3	2230.4	2489.7	3942
52-811	O	28	0.438	31.94	96.6	41.26	46.94	52.62	20	0.472	3.9	1352	402.4	482.9	523.1	414.4	501.9	560.3	887.1
		711.2	11.112	811.2	5192.2	201.46	229.19	256.93	3413	12	100	184633.9	1789.9	2147.9	2326.9	1843.2	2232.6	2492.2	3946.1
52-913	O	32	0.375	35.94	97.2	36.1	41.08	46.05	20	0.472	3.9	1555.5	405.1	486.1	526.6	417.1	505.3	564	893
		812.8	9.525	912.8	5227	176.26	200.56	224.86	3413	12	100	212423.3	1801.9	2162.3	2342.5	1855.6	2247.6	2508.9	3972.5
52-914	O	28	0.5	35.99	97.3	42.97	49.12	55.28	20	0.472	8	1361.9	405.3	486.4	526.9	417.4	505.6	564.4	893.6
		711.2	12.7	914.2	5230	209.79	239.83	269.88	3413	12	203	185979	1803	2163.6	2343.9	1856.7	2248.9	2510.4	3974.8
52-1214	O	36	0.394	47.81	97.3	33.93	38.98	44.02	20	0.472	11.8	1751.9	405.5	486.6	527.2	417.6	505.8	564.7	894
		914.4	10	1214.4	5232.7	165.68	190.3	214.92	3413	12	300	239239.1	1803.9	2164.7	2345.1	1857.6	2250.1	2511.7	3976.9
52-995	O	30	0.472	39.17	97.6	40.35	46.18	52.02	20	0.472	9.2	1463.5	406.5	487.8	528.5	418.6	507.1	566	896.2
		762	12	995	5245.5	196.99	225.48	253.96	3413	12	233	199854.3	1808.3	2170	2350.8	1862.2	2255.6	2517.8	3986.6
53-813	O	24	0.625	31.99	98.1	51.1	58.37	65.63	20	0.472	8	1176.6	408.6	490.3	531.1	420.7	509.6	568.9	900.7
		609.6	15.875	812.6	5271.7	249.48	284.97	320.45	3413	12	203	160680.5	1817.3	2180.8	2362.5	1871.4	2266.8	2530.4	4006.5
53-521	O	18	0.75	20.52	98.2	68.1	77.32	86.54	20	0.472	2.5	883.7	409.1	491	531.9	421.3	510.3	569.7	902
		457.2	19.05	521.2	5279.2	332.5	377.5	422.51	3413	12	64	120681.8	1819.9	2183.9	2365.9	1874.1	2270	2534	4012.2
53-1147	O	36	0.375	45.17	98.3	33.65	38.54	43.43	20	0.472	9.2	1768.9	409.5	491.4	532.3	421.7	510.7	570.1	902.7
		914.4	9.525	1147.4	5283.4	164.27	188.16	212.04	3413	12	233	241559.2	1821.4	2185.7	2367.8	1875.6	2271.9	2536.1	4015.4
53-1011	O	28	0.562	39.81	98.3	44.4	50.91	57.42	20	0.472	11.8	1375.9	409.5	491.4	532.3	421.7	510.8	570.1	902.7
		711.2	14.288	1011.2	5283.7	216.79	248.58	280.37	3413	12	300	187886.7	1821.5	2185.8	2367.9	1875.7	2272	2536.2	4015.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
53-1046	O	32	0.438	41.17	98.4	38.03	43.54	49.05	20	0.472	9.2	1574.7	410.1	492.1	533.1	422.3	511.5	571	904.1
		812.8	11.112	1045.8	5291.4	185.7	212.59	239.48	3413	12	233	215041.1	1824.1	2189	2371.4	1878.4	2275.3	2539.9	4021.4
53-1067	O	34	0.394	41.99	98.7	35.56	40.68	45.79	20	0.472	8	1677.1	411.1	493.3	534.4	423.3	512.7	572.3	906.2
		863.6	10	1066.6	5303.9	173.62	198.6	223.57	3413	12	203	229024	1828.5	2194.2	2377	1882.9	2280.7	2545.9	4031
53-826	O	30	0.394	32.52	98.7	38.93	44.24	49.55	20	0.472	2.5	1480.8	411.3	493.6	534.7	423.6	513.1	572.7	906.8
		762	10	826	5307.4	190.06	215.99	241.92	3413	12	64	202213.1	1829.7	2195.6	2378.6	1884.1	2282.2	2547.6	4033.6
53-792	O	22	0.75	31.17	99	57.25	65.39	73.54	20	0.472	9.2	1089.3	412.6	495.1	536.4	424.9	514.7	574.5	909.6
		558.8	19.05	791.8	5323.9	279.5	319.29	359.08	3413	12	233	148750.3	1835.4	2202.4	2386	1890	2289.3	2555.5	4046.2
53-877	O	24	0.688	34.51	99.2	52.53	60.12	67.7	20	0.472	10.5	1190.4	413.3	496	537.3	425.6	515.6	575.5	911.2
		609.6	17.462	876.6	5333.3	256.5	293.51	330.52	3413	12	267	162558.7	1838.6	2206.3	2390.2	1893.3	2293.3	2560	4053.3
53-1265	O	38	0.375	49.81	99.5	32.76	37.62	42.49	20	0.472	11.8	1889.8	414.4	497.3	538.8	426.8	516.9	577	913.6
		965.2	9.525	1265.2	5347.5	159.95	183.69	207.43	3413	12	300	258071.5	1843.5	2212.2	2396.5	1898.4	2299.4	2566.8	4064.1
54-1113	O	32	0.472	43.81	99.6	39.09	44.85	50.6	20	0.472	11.8	1592.8	414.8	497.8	539.2	427.2	517.4	577.6	914.5
		812.8	12	1112.8	5352.3	190.84	218.95	247.07	3413	12	300	217517.1	1845.1	2214.2	2398.7	1900.1	2301.5	2569.1	4067.7
54-1029	O	30	0.5	40.51	99.6	41.52	47.57	53.63	20	0.472	10.5	1493.5	414.9	497.8	539.3	427.2	517.5	577.7	914.6
		762	12.7	1029	5353.2	202.71	232.26	261.82	3413	12	267	203957.2	1845.5	2214.5	2399.1	1900.4	2301.9	2569.5	4068.4
54-891	O	28	0.5	35.09	99.8	43.41	49.5	55.59	20	0.472	7.1	1397	415.8	498.9	540.5	428.2	518.6	578.9	916.6
		711.2	12.7	891.2	5365	211.94	241.68	271.41	3413	12	180	190778.7	1849.5	2219.4	2404.4	1904.6	2306.9	2575.2	4077.4
54-1181	O	36	0.394	46.51	100	34.55	39.62	44.69	20	0.472	10.5	1800.8	416.9	500.2	541.9	429.3	520	580.4	919
		914.4	10	1181.4	5378.9	168.67	193.43	218.19	3413	12	267	245921.8	1854.3	2225.2	2410.6	1909.5	2312.9	2581.9	4087.9
54-1164	O	34	0.438	45.81	100.1	36.91	42.35	47.8	20	0.472	11.8	1701.7	417.1	500.5	542.2	429.5	520.2	580.7	919.5
		863.6	11.112	1163.6	5381.8	180.19	206.79	233.4	3413	12	300	232384	1855.3	2226.3	2411.9	1910.5	2314.2	2583.2	4090.1
54-965	O	30	0.472	37.99	100.6	41.25	47.14	53.04	20	0.472	8	1509	419.2	503	544.9	431.6	522.8	583.6	924.1
		762	12	965	5408.6	201.38	230.18	258.97	3413	12	203	206067.4	1864.5	2237.5	2423.9	1920.1	2325.7	2596.1	4110.5
54-864	O	24	0.688	34.02	100.6	53.02	60.62	68.21	20	0.472	10	1207.6	419.3	503.2	545.1	431.8	523	583.8	924.4
		609.6	17.462	864.1	5410.4	258.85	295.95	333.05	3413	12	254.5	164910.3	1865.2	2238.2	2424.7	1920.7	2326.5	2597	4111.9
54-1017	O	30	0.5	40.02	100.8	41.79	47.84	53.89	20	0.472	10	1511.9	420	504	546	432.5	523.8	584.8	925.9
		762	12.7	1016.5	5419	204.05	233.58	263.12	3413	12	254.5	206465.3	1868.1	2241.8	2428.6	1923.8	2330.2	2601.1	4118.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
54-1044	O	34	0.394	41.09	100.8	35.77	40.81	45.85	20	0.472	7.1	1714.1	420.1	504.1	546.1	432.6	524	585	926.2
		863.6	10	1043.6	5420.8	174.66	199.26	223.86	3413	12	180	234071.5	1868.8	2242.5	2429.4	1924.4	2331	2602	4119.8
54-790	O	24	0.625	31.09	100.9	51.83	59.06	66.29	20	0.472	7.1	1210.9	420.5	504.5	546.6	433	524.4	585.4	926.9
		609.6	15.875	789.6	5425.2	253.07	288.36	323.65	3413	12	180	165360.9	1870.3	2244.3	2431.4	1926	2332.8	2604.1	4123.2
54-1117	O	36	0.375	43.99	100.9	34.24	39.16	44.08	20	0.472	8	1816.4	420.5	504.6	546.6	433	524.5	585.4	926.9
		914.4	9.525	1117.4	5425.3	167.19	191.21	215.24	3413	12	203	248044.6	1870.3	2244.4	2431.4	1926	2332.9	2604.1	4123.2
54-659	O	22	0.625	25.94	101	55.95	63.59	71.23	20	0.472	3.9	1111.5	421	505.2	547.3	433.6	525.2	586.2	928.2
		558.8	15.875	658.8	5432.6	273.19	310.49	347.78	3413	12	100	151787.3	1872.8	2247.4	2434.7	1928.6	2336	2607.7	4128.8
54-775	O	28	0.438	30.52	101.1	42.83	48.66	54.49	20	0.472	2.5	1414.8	421.1	505.3	547.4	433.6	525.2	586.3	928.3
		711.2	11.112	775.2	5433.3	209.12	237.58	266.03	3413	12	64	193208.2	1873.1	2247.7	2435	1928.8	2336.3	2608	4129.3
54-1169	O	36	0.394	46.02	101.1	34.71	39.77	44.83	20	0.472	10	1820.1	421.3	505.6	547.7	433.9	525.5	586.6	928.8
		914.4	10	1168.9	5436.4	169.48	194.17	218.86	3413	12	254.5	248551.6	1874.1	2249	2436.4	1929.9	2337.6	2609.5	4131.7
54-877	O	32	0.375	34.52	101.2	37.28	42.35	47.43	20	0.472	2.5	1619.4	421.7	506.1	548.2	434.3	526	587.2	929.7
		812.8	9.525	876.8	5441.6	182	206.79	231.59	3413	12	64	221145.1	1875.9	2251.1	2438.7	1931.8	2339.9	2611.9	4135.6
54-1016	O	32	0.438	39.99	101.3	38.82	44.38	49.94	20	0.472	8	1621.2	422.2	506.6	548.9	434.8	526.6	587.8	930.8
		812.8	11.112	1015.8	5447.6	189.54	216.67	243.8	3413	12	203	221392	1878	2253.6	2441.4	1933.9	2342.5	2614.9	4140.2
55-978	O	28	0.562	38.51	101.6	45.5	52.09	58.69	20	0.472	10.5	1422.3	423.3	508	550.3	435.9	528	589.4	933.2
		711.2	14.288	978.2	5461.9	222.13	254.33	286.54	3413	12	267	194225.1	1882.9	2259.5	2447.8	1939	2348.6	2621.7	4151
55-710	O	24	0.562	27.94	101.9	51.3	58.31	65.32	20	0.472	3.9	1222.3	424.4	509.3	551.7	437	529.4	590.9	935.6
		609.6	14.288	709.6	5476.1	250.48	284.71	318.94	3413	12	100	166912.3	1887.8	2265.4	2454.2	1944	2354.7	2628.5	4161.9
55-913	O	32	0.394	35.94	101.9	37.77	42.95	48.14	20	0.472	3.9	1630.2	424.5	509.5	551.9	437.2	529.5	591.1	935.9
		812.8	10	912.8	5478	184.4	209.72	235.04	3413	12	100	222624.9	1888.5	2266.2	2455	1944.7	2355.5	2629.4	4163.3
55-1232	O	38	0.375	48.51	102.1	33.32	38.2	43.09	20	0.472	10.5	1940.4	425.5	510.6	553.2	438.2	530.8	592.5	938.1
		965.2	9.525	1232.2	5490.7	162.66	186.52	210.37	3413	12	267	264983	1892.9	2271.4	2460.7	1949.2	2361	2635.6	4173
55-1080	O	32	0.472	42.51	102.6	39.91	45.73	51.54	20	0.472	10.5	1641.5	427.5	513	555.7	440.2	533.2	595.2	942.4
		812.8	12	1079.8	5515.9	194.88	223.26	251.64	3413	12	267	224164.7	1901.5	2281.8	2472	1958.1	2371.8	2647.6	4192.1
55-966	O	28	0.562	38.02	102.9	45.84	52.43	59.03	20	0.472	10	1440.7	428.8	514.5	557.4	441.5	534.8	597	945.3
		711.2	14.288	965.7	5532.6	223.79	256.01	288.23	3413	12	254.5	196739.2	1907.3	2288.8	2479.5	1964.1	2379	2655.6	4204.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
55-762	O	22	0.75	29.99	102.9	59.05	67.37	75.69	20	0.472	8	1132.2	428.9	514.6	557.5	441.6	534.9	597.1	945.4
		558.8	19.05	761.8	5533.6	288.31	328.93	369.56	3413	12	203	154608.2	1907.6	2289.2	2479.9	1964.4	2379.4	2656.1	4205.5
55-995	O	30	0.5	39.17	103	42.44	48.54	54.64	20	0.472	9.2	1544.6	429.1	514.9	557.8	441.8	535.2	597.4	945.9
		762	12.7	995	5536.1	207.23	236.99	266.76	3413	12	233	210926.6	1908.5	2290.2	2481.1	1965.3	2380.5	2657.3	4207.5
55-1147	O	36	0.394	45.17	103	35.14	40.22	45.3	20	0.472	9.2	1854.2	429.2	515.1	558	442	535.4	597.6	946.2
		914.4	10	1147.4	5538.3	171.58	196.38	221.18	3413	12	233	253209	1909.2	2291.1	2482	1966.1	2381.4	2658.4	4209.1
55-1131	O	34	0.438	44.51	103	37.63	43.12	48.61	20	0.472	10.5	1751.4	429.3	515.1	558	442	535.4	597.7	946.3
		863.6	11.112	1130.6	5538.8	183.74	210.55	237.36	3413	12	267	239166.8	1909.4	2291.3	2482.3	1966.3	2381.7	2658.6	4209.5
55-1094	O	36	0.375	43.09	103	34.42	39.26	44.1	20	0.472	7.1	1854.6	429.3	515.2	558.1	442.1	535.5	597.7	946.4
		914.4	9.525	1094.4	5539.3	168.05	191.69	215.34	3413	12	180	253257.5	1909.6	2291.5	2482.5	1966.5	2381.9	2658.9	4209.9
55-942	O	30	0.472	37.09	103.1	41.62	47.45	53.28	20	0.472	7.1	1545.8	429.4	515.3	558.2	442.2	535.6	597.9	946.6
		762	12	942	5540.6	203.22	231.68	260.15	3413	12	180	211098.7	1910.1	2292.1	2483.1	1966.9	2382.5	2659.5	4210.9
55-1220	O	38	0.375	48.02	103.2	33.46	38.33	43.2	20	0.472	10	1960.3	429.9	515.9	558.9	442.7	536.2	598.6	947.7
		965.2	9.525	1219.7	5547	163.37	187.15	210.93	3413	12	254.5	267698.6	1912.3	2294.7	2485.9	1969.2	2385.2	2662.6	4215.7
55-843	O	24	0.688	33.17	103.2	54.07	61.76	69.46	20	0.472	9.2	1238.4	430	516	559	442.8	536.4	598.7	948
		609.6	17.462	842.6	5548.5	264	301.56	339.12	3413	12	233	169118.2	1912.8	2295.3	2486.6	1969.7	2385.9	2663.3	4216.9
56-910	O	24	0.75	35.81	103.5	55.11	63.06	71.02	20	0.472	11.8	1241.7	431.1	517.4	560.5	444	537.8	600.3	950.5
		609.6	19.05	909.6	5563	269.05	307.89	346.74	3413	12	300	169561.3	1917.8	2301.3	2493.1	1974.9	2392.1	2670.3	4227.9
56-993	O	32	0.438	39.09	103.7	39.12	44.61	50.09	20	0.472	7.1	1658.8	432	518.4	561.6	444.8	538.8	601.5	952.3
		812.8	11.112	992.8	5573.8	191	217.79	244.57	3413	12	180	226521	1921.5	2305.8	2498	1978.7	2396.8	2675.4	4236.1
56-1067	O	32	0.472	42.02	103.8	40.16	45.96	51.77	20	0.472	10	1660.7	432.5	519	562.2	445.4	539.5	602.2	953.4
		812.8	12	1067.3	5580.5	196.06	224.41	252.76	3413	12	254.5	226790	1923.8	2308.6	2500.9	1981.1	2399.6	2678.6	4241.2
56-811	O	28	0.472	31.94	103.9	44.3	50.36	56.43	20	0.472	3.9	1454.5	432.9	519.5	562.8	445.8	540	602.8	954.4
		711.2	12	811.2	5585.8	216.31	245.9	275.49	3413	12	100	198630.4	1925.6	2310.8	2503.3	1983	2401.9	2681.2	4245.2
56-1118	O	34	0.438	44.02	104.2	37.84	43.32	48.8	20	0.472	10	1771	434.1	520.9	564.3	447	541.4	604.4	956.9
		863.6	11.112	1118.1	5600.8	184.75	211.51	238.27	3413	12	254.5	241840.6	1930.8	2316.9	2510	1988.3	2408.3	2688.4	4256.6
56-964	O	34	0.375	37.94	104.2	36.23	41.19	46.16	20	0.472	3.9	1771.1	434.1	520.9	564.3	447	541.5	604.4	957
		863.6	9.525	963.6	5601.3	176.87	201.13	225.39	3413	12	100	241863.8	1931	2317.2	2510.3	1988.5	2408.6	2688.6	4257

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
56-1265	O	38	0.394	49.81	104.3	34.19	39.24	44.28	20	0.472	11.8	1981.1	434.5	521.3	564.8	447.4	541.9	604.9	957.8
		965.2	10	1265.2	5605.9	166.95	191.57	216.19	3413	12	300	270539.8	1932.6	2319.1	2512.3	1990.1	2410.5	2690.8	4260.5
56-862	O	30	0.438	33.94	104.7	41.48	47.15	52.83	20	0.472	3.9	1569.9	436.1	523.3	566.9	449.1	543.9	607.2	961.4
		762	11.112	862	5626.8	202.51	230.22	257.94	3413	12	100	214380.5	1939.8	2327.7	2521.7	1997.5	2419.5	2700.9	4276.4
56-1198	O	38	0.375	47.17	105	33.85	38.74	43.63	20	0.472	9.2	1995.5	437.6	525.1	568.9	450.6	545.8	609.3	964.7
		965.2	9.525	1198.2	5646.5	165.28	189.14	213.01	3413	12	233	272502.1	1946.6	2335.9	2530.5	2004.5	2428	2710.3	4291.4
56-1113	O	32	0.5	43.81	105.1	41.09	47.1	53.11	20	0.472	11.8	1681.4	437.9	525.4	569.2	450.9	546.2	609.7	965.3
		812.8	12.7	1112.8	5649.8	200.62	229.96	259.3	3413	12	300	229609.1	1947.7	2337.2	2532	2005.7	2429.4	2711.9	4293.9
57-944	O	28	0.562	37.17	105.2	46.61	53.27	59.93	20	0.472	9.2	1473.5	438.5	526.2	570.1	451.6	547	610.6	966.8
		711.2	14.288	944.2	5658.6	227.59	260.11	292.63	3413	12	233	201219	1950.7	2340.9	2535.9	2008.8	2433.2	2716.1	4300.5
57-608	O	20	0.75	23.94	105.5	65.25	74.11	82.96	20	0.472	3.9	1054.8	439.5	527.4	571.4	452.6	548.2	612	968.9
		508	19.05	608	5671.1	318.59	361.82	405.05	3413	12	100	144046.7	1955.1	2346.1	2541.6	2013.3	2438.6	2722.1	4310.1
57-1117	O	36	0.394	43.99	105.8	35.78	40.89	46.01	20	0.472	8	1904	440.7	528.9	573	453.9	549.7	613.7	971.6
		914.4	10	1117.4	5686.9	174.69	199.66	224.62	3413	12	203	260007.2	1960.5	2352.6	2548.7	2018.9	2445.4	2729.7	4322.1
57-1046	O	32	0.472	41.17	105.9	40.74	46.59	52.43	20	0.472	9.2	1694.9	441.4	529.7	573.8	454.5	550.5	614.6	973.1
		812.8	12	1045.8	5695.2	198.92	227.46	256	3413	12	233	231452.5	1963.3	2356	2552.4	2021.8	2448.9	2733.7	4328.3
57-877	O	32	0.394	34.52	106.1	39.01	44.31	49.6	20	0.472	2.5	1697.2	442	530.4	574.6	455.1	551.3	615.4	974.4
		812.8	10	876.8	5702.9	190.47	216.33	242.19	3413	12	64	231765.5	1966	2359.2	2555.8	2024.5	2452.2	2737.4	4334.2
57-1316	O	40	0.375	51.81	106.1	32.98	37.84	42.7	20	0.472	11.8	2122.3	442.1	530.6	574.8	455.3	551.5	615.6	974.7
		1016	9.525	1316	5705	161.03	184.76	208.49	3413	12	300	289812.3	1966.7	2360.1	2556.7	2025.3	2453.1	2738.4	4335.8
57-739	O	22	0.75	29.09	106.1	60.08	68.39	76.7	20	0.472	7.1	1167.4	442.2	530.6	574.9	455.4	551.6	615.7	974.9
		558.8	19.05	738.8	5705.8	293.35	333.93	374.51	3413	12	180	159421.4	1967	2360.4	2557.1	2025.6	2453.5	2738.8	4336.4
57-965	O	30	0.5	37.99	106.2	43.41	49.58	55.74	20	0.472	8	1592.6	442.4	530.9	575.1	455.6	551.8	616	975.3
		762	12.7	965	5708.2	211.94	242.05	272.16	3413	12	203	217483.9	1967.8	2361.4	2558.2	2026.4	2454.5	2740	4338.3
57-1097	O	34	0.438	43.17	106.2	38.35	43.86	49.38	20	0.472	9.2	1805.7	442.6	531.1	575.3	455.7	552	616.2	975.7
		863.6	11.112	1096.6	5710.6	187.26	214.17	241.08	3413	12	233	246582.2	1968.6	2362.4	2559.2	2027.3	2455.5	2741.1	4340
57-623	O	22	0.625	24.52	106.9	58.76	66.69	74.63	20	0.472	2.5	1175.8	445.4	534.4	579	458.6	555.5	620.1	981.8
		558.8	15.875	622.8	5746.6	286.88	325.62	364.36	3413	12	64	160561.1	1981.1	2377.3	2575.4	2040.1	2471.1	2758.4	4367.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
58-813	O	24	0.688	31.99	107	55.65	63.48	71.32	20	0.472	8	1284.1	445.9	535.1	579.6	459.2	556.2	620.8	983
		609.6	17.462	812.6	5753.3	271.69	309.95	348.21	3413	12	203	175361.8	1983.4	2380.1	2578.4	2042.4	2473.9	2761.6	4372.5
58-1232	O	38	0.394	48.51	107.1	34.79	39.86	44.93	20	0.472	10.5	2034.2	446.1	535.3	579.9	459.4	556.4	621.1	983.4
		965.2	10	1232.2	5756	169.85	194.61	219.36	3413	12	267	277785.3	1984.3	2381.2	2579.6	2043.4	2475.1	2762.9	4374.6
58-674	O	24	0.562	26.52	107.3	53.65	60.9	68.15	20	0.472	2.5	1287.6	447.1	536.5	581.2	460.4	557.7	622.5	985.6
		609.6	14.288	673.6	5768.8	261.92	297.33	332.73	3413	12	64	175832.8	1988.7	2386.5	2585.3	2047.9	2480.6	2769	4384.3
58-877	O	24	0.75	34.51	107.4	56.73	64.83	72.94	20	0.472	10.5	1288.4	447.4	536.8	581.6	460.7	558	622.9	986.3
		609.6	19.05	876.6	5772.5	276.97	316.55	356.12	3413	12	267	175944.6	1990	2388	2587	2049.2	2482.2	2770.8	4387.1
58-1168	O	38	0.375	45.99	107.7	34.43	39.34	44.26	20	0.472	8	2046.7	448.8	538.6	583.5	462.2	559.9	625	989.5
		965.2	9.525	1168.2	5791.5	168.09	192.09	216.1	3413	12	203	279500.1	1996.6	2395.9	2595.5	2056	2490.4	2779.9	4401.6
58-1214	O	36	0.438	47.81	107.8	37.24	42.7	48.15	20	0.472	11.8	1939.7	449	538.8	583.7	462.4	560.1	625.2	989.9
		914.4	11.112	1214.4	5793.6	181.83	208.46	235.1	3413	12	300	264883.1	1997.3	2396.7	2596.5	2056.7	2491.2	2780.9	4403.1
58-1164	O	34	0.472	45.81	107.8	39.5	45.27	51.04	20	0.472	11.8	1831.9	449	538.8	583.7	462.4	560.1	625.2	989.9
		863.6	12	1163.6	5793.6	192.84	221.02	249.21	3413	12	300	250167.6	1997.3	2396.7	2596.5	2056.7	2491.2	2780.9	4403.1
58-1062	O	30	0.562	41.81	107.9	45.04	51.59	58.13	20	0.472	11.8	1617.8	449.4	539.3	584.2	462.8	560.5	625.7	990.7
		762	14.288	1062	5798.7	219.9	251.86	283.82	3413	12	300	220929.4	1999	2398.8	2598.7	2058.5	2493.4	2783.4	4407
58-1094	O	36	0.394	43.09	108	35.99	41.03	46.07	20	0.472	7.1	1944	450	540	585	463.4	561.3	626.6	992.1
		914.4	10	1094.4	5806.5	175.71	200.31	224.92	3413	12	180	265471.5	2001.7	2402	2602.2	2061.3	2496.8	2787.1	4412.9
58-1220	O	38	0.394	48.02	108.2	34.95	40.01	45.06	20	0.472	10	2055	450.7	540.8	585.9	464.1	562.1	627.5	993.5
		965.2	10	1219.7	5815	170.63	195.32	220.01	3413	12	254.5	280632.1	2004.7	2405.6	2606	2064.3	2500.5	2791.2	4419.4
58-928	O	34	0.375	36.52	108.2	37.34	42.41	47.47	20	0.472	2.5	1839.9	450.9	541.1	586.2	464.4	562.5	627.9	994.1
		863.6	9.525	927.6	5818.7	182.32	207.05	231.77	3413	12	64	251250.5	2005.9	2407.1	2607.7	2065.6	2502	2793	4422.2
58-1080	O	32	0.5	42.51	108.3	41.98	48.05	54.12	20	0.472	10.5	1732.8	451.2	541.5	586.6	464.7	562.8	628.3	994.8
		812.8	12.7	1079.8	5822.5	204.96	234.6	264.24	3413	12	267	236626.2	2007.2	2408.7	2609.4	2067	2503.7	2794.8	4425.1
58-1011	O	28	0.625	39.81	108.5	48.72	55.77	62.83	20	0.472	11.8	1518.5	451.9	542.3	587.5	465.4	563.7	629.2	996.3
		711.2	15.875	1011.2	5831.3	237.89	272.31	306.74	3413	12	300	207360.6	2010.3	2412.3	2613.3	2070.1	2507.5	2799	4431.8
58-914	O	28	0.562	35.99	108.7	47.77	54.52	61.28	20	0.472	8	1521.9	452.9	543.5	588.8	466.4	565	630.6	998.5
		711.2	14.288	914.2	5844.3	233.23	266.21	299.18	3413	12	203	207822.1	2014.7	2417.7	2619.2	2074.7	2513	2805.2	4441.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
58-775	O	28	0.472	30.52	108.7	46.01	52.24	58.47	20	0.472	2.5	1522.1	453	543.6	588.9	466.5	565	630.7	998.7
		711.2	12	775.2	5845.2	224.66	255.06	285.46	3413	12	64	207854.7	2015.1	2418.1	2619.6	2075	2513.4	2805.7	4442.3
58-942	O	30	0.5	37.09	108.8	43.84	49.94	56.05	20	0.472	7.1	1631.5	453.2	543.8	589.1	466.7	565.3	631	999.1
		762	12.7	942	5847.6	214.02	243.84	273.66	3413	12	180	222794.1	2015.9	2419.1	2620.7	2075.9	2514.5	2806.9	4444.2
59-1283	O	40	0.375	50.51	108.8	33.52	38.4	43.29	20	0.472	10.5	2176.8	453.5	544.2	589.6	467	565.7	631.4	999.8
		1016	9.525	1283	5851.7	163.66	187.5	211.34	3413	12	267	297266.6	2017.3	2420.8	2622.5	2077.4	2516.2	2808.8	4447.3
59-864	O	24	0.75	34.02	108.9	57.27	65.4	73.53	20	0.472	10	1307.1	453.8	544.6	590	467.3	566.1	631.9	1000.5
		609.6	19.05	864.1	5856	279.62	319.32	359.01	3413	12	254.5	178489.8	2018.8	2422.5	2624.4	2078.9	2518.1	2810.9	4450.5
59-1016	O	32	0.472	39.99	109.1	41.61	47.51	53.42	20	0.472	8	1744.9	454.4	545.3	590.7	467.9	566.8	632.7	1001.8
		812.8	12	1015.8	5863.4	203.15	231.99	260.82	3413	12	203	238288	2021.3	2425.6	2627.7	2081.5	2521.3	2814.4	4456.2
59-964	O	34	0.394	37.94	109.2	37.91	43.09	48.26	20	0.472	3.9	1856.4	455	546	591.5	468.5	567.5	633.5	1003.1
		863.6	10	963.6	5870.9	185.08	210.36	235.65	3413	12	100	253504.6	2023.9	2428.7	2631.1	2084.2	2524.5	2818	4461.9
59-1067	O	34	0.438	41.99	109.2	39.11	44.67	50.23	20	0.472	8	1856.5	455	546	591.5	468.6	567.6	633.5	1003.1
		863.6	11.112	1066.6	5871.2	190.95	218.1	245.25	3413	12	203	253517.7	2024	2428.8	2631.2	2084.3	2524.6	2818.2	4462.1
59-826	O	30	0.438	32.52	109.2	42.96	48.77	54.59	20	0.472	2.5	1638.3	455.1	546.1	591.6	468.6	567.6	633.6	1003.3
		762	11.112	826	5872	209.74	238.13	266.53	3413	12	64	223724	2024.3	2429.2	2631.6	2084.6	2525	2818.6	4462.7
59-1067	O	32	0.5	42.02	109.6	42.25	48.31	54.38	20	0.472	10	1753.1	456.5	547.8	593.5	470.1	569.4	635.7	1006.5
		812.8	12.7	1067.3	5890.7	206.26	235.88	265.51	3413	12	254.5	239397.5	2030.7	2436.9	2640	2091.2	2533	2827.5	4476.9
59-811	O	28	0.5	31.94	109.6	46.7	53.06	59.42	20	0.472	3.9	1534.8	456.8	548.1	593.8	470.4	569.8	636	1007
		711.2	12.7	811.2	5894.1	228	259.05	290.1	3413	12	100	209593.2	2031.9	2438.3	2641.5	2092.4	2534.5	2829.2	4479.5
59-1145	O	38	0.375	45.09	109.9	34.6	39.44	44.28	20	0.472	7.1	2087.8	457.9	549.4	595.2	471.5	571.1	637.5	1009.4
		965.2	9.525	1145.2	5907.9	168.93	192.57	216.21	3413	12	180	285113.5	2036.7	2444	2647.7	2097.3	2540.4	2835.8	4490
59-1271	O	40	0.375	50.02	109.9	33.66	38.53	43.4	20	0.472	10	2198.3	458	549.6	595.4	471.6	571.2	637.7	1009.6
		1016	9.525	1270.5	5909.3	164.35	188.12	211.89	3413	12	254.5	300191.3	2037.2	2444.6	2648.3	2097.8	2541	2836.5	4491.1
59-1198	O	38	0.394	47.17	110.1	35.37	40.44	45.52	20	0.472	9.2	2091.9	458.8	550.5	596.4	472.4	572.2	638.7	1011.3
		965.2	10	1198.2	5919.3	172.67	197.46	222.26	3413	12	233	285667.7	2040.6	2448.7	2652.8	2101.4	2545.3	2841.3	4498.7
59-790	O	24	0.688	31.09	110.1	56.51	64.33	72.14	20	0.472	7.1	1321.6	458.9	550.6	596.5	472.5	572.4	638.9	1011.6
		609.6	17.462	789.6	5920.9	275.92	314.07	352.22	3413	12	180	180469.9	2041.2	2449.4	2653.5	2101.9	2546	2842	4499.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
60-1181	O	36	0.438	46.51	110.8	37.95	43.44	48.94	20	0.472	10.5	1993.9	461.5	553.9	600	475.3	575.7	642.6	1017.5
		914.4	11.112	1181.4	5955.4	185.27	212.1	238.94	3413	12	267	272282	2053.1	2463.7	2669	2114.2	2560.8	2858.6	4526.1
60-1131	O	34	0.472	44.51	110.9	40.3	46.12	51.95	20	0.472	10.5	1885.4	462.1	554.5	600.7	475.9	576.4	643.4	1018.8
		863.6	12	1130.6	5962.7	196.76	225.19	253.63	3413	12	267	257469.5	2055.6	2466.7	2672.2	2116.8	2564	2862.1	4531.7
60-1014	O	36	0.375	39.94	111.2	36.34	41.3	46.26	20	0.472	3.9	2000.8	463.2	555.8	602.1	476.9	577.7	644.9	1021.1
		914.4	9.525	1014.4	5976.2	177.43	201.64	225.86	3413	12	100	273230.5	2060.2	2472.3	2678.3	2121.5	2569.8	2868.6	4541.9
60-910	O	24	0.812	35.81	111.2	59.12	67.58	76.04	20	0.472	11.8	1334.6	463.4	556.1	602.4	477.2	578	645.2	1021.6
		609.6	20.638	909.6	5979.3	288.67	329.97	371.27	3413	12	300	182248.2	2061.3	2473.5	2679.7	2122.6	2571.1	2870.1	4544.2
60-1316	O	40	0.394	51.81	111.2	34.43	39.48	44.52	20	0.472	11.8	2225	463.5	556.2	602.6	477.3	578.2	645.4	1021.9
		1016	10	1316	5981.1	168.12	192.74	217.36	3413	12	300	303837.4	2061.9	2474.3	2680.5	2123.3	2571.9	2870.9	4545.6
60-1029	O	30	0.562	40.51	111.3	46.1	52.73	59.35	20	0.472	10.5	1669.7	463.8	556.6	603	477.6	578.5	645.8	1022.5
		762	14.288	1029	5984.6	225.08	257.43	289.79	3413	12	267	228014.6	2063.1	2475.8	2682.1	2124.5	2573.4	2872.6	4548.3
60-891	O	28	0.562	35.09	111.5	48.33	55.04	61.75	20	0.472	7.1	1561.1	464.6	557.5	604	478.5	579.5	646.9	1024.3
		711.2	14.288	891.2	5995.1	235.99	268.73	301.47	3413	12	180	213185.6	2066.7	2480.1	2686.8	2128.3	2577.9	2877.6	4556.3
60-993	O	32	0.472	39.09	111.6	41.97	47.82	53.66	20	0.472	7.1	1785.4	464.9	557.9	604.4	478.8	579.9	647.4	1025
		812.8	12	992.8	5999.2	204.93	233.46	261.98	3413	12	180	243808.4	2068.2	2481.8	2688.6	2129.7	2579.7	2879.6	4559.4
60-1044	O	34	0.438	41.09	111.6	39.4	44.89	50.39	20	0.472	7.1	1897.4	465	558.1	604.6	478.9	580.1	647.5	1025.2
		863.6	11.112	1043.6	6000.6	192.38	219.19	246.01	3413	12	180	259105	2068.6	2482.3	2689.2	2130.2	2580.2	2880.3	4560.4
60-843	O	24	0.75	33.17	111.7	58.43	66.67	74.91	20	0.472	9.2	1340.4	465.4	558.5	605	479.3	580.5	648	1026
		609.6	19.05	842.6	6005.4	285.3	325.53	365.75	3413	12	233	183044.1	2070.3	2484.3	2691.4	2131.9	2582.3	2882.6	4564.1
60-1249	O	40	0.375	49.17	111.8	34.04	38.93	43.81	20	0.472	9.2	2236.1	465.9	559	605.6	479.7	581.1	648.6	1027
		1016	9.525	1249	6011	166.2	190.05	213.9	3413	12	233	305358.7	2072.2	2486.7	2693.9	2133.9	2584.7	2885.3	4568.4
60-1046	O	32	0.5	41.17	111.8	42.87	48.99	55.1	20	0.472	9.2	1789.1	465.9	559.1	605.7	479.8	581.1	648.7	1027.1
		812.8	12.7	1045.8	6011.8	209.33	239.17	269.01	3413	12	233	244319.2	2072.5	2487	2694.2	2134.2	2585.1	2885.7	4569
60-1169	O	36	0.438	46.02	112	38.15	43.63	49.12	20	0.472	10	2015.2	466.5	559.8	606.4	480.4	581.9	649.5	1028.4
		914.4	11.112	1168.9	6019.1	186.25	213.04	239.82	3413	12	254.5	275193.8	2075	2490	2697.5	2136.8	2588.2	2889.2	4574.5
60-978	O	28	0.625	38.51	112.1	49.96	57.12	64.27	20	0.472	10.5	1569.7	467.2	560.6	607.3	481.1	582.7	650.5	1029.9
		711.2	15.875	978.2	6028	243.93	278.86	313.79	3413	12	267	214356	2078.1	2493.7	2701.5	2139.9	2592	2893.4	4581.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
60-572	O	20	0.75	22.52	112.1	68.89	78.14	87.4	20	0.472	2.5	1121.2	467.2	560.6	607.3	481.1	582.7	650.5	1029.9
		508	19.05	572	6028.1	336.35	381.53	426.71	3413	12	64	153112.6	2078.1	2493.7	2701.5	2140	2592.1	2893.5	4581.3
60-1118	O	34	0.472	44.02	112.1	40.54	46.35	52.17	20	0.472	10	1906.5	467.3	560.7	607.5	481.2	582.8	650.6	1030.1
		863.6	12	1118.1	6029.4	197.91	226.32	254.72	3413	12	254.5	260347.9	2078.6	2494.3	2702.1	2140.4	2592.6	2894.1	4582.3
60-710	O	24	0.625	27.94	112.3	56.54	64.21	71.87	20	0.472	3.9	1347.4	467.9	561.4	608.2	481.8	583.6	651.4	1031.4
		609.6	15.875	709.6	6036.9	276.06	313.48	350.91	3413	12	100	184003.7	2081.1	2497.4	2705.5	2143.1	2595.9	2897.7	4588
61-862	O	30	0.472	33.94	112.6	44.55	50.61	56.67	20	0.472	3.9	1689.3	469.3	563.1	610	483.2	585.3	653.4	1034.5
		762	12	862	6054.9	217.52	247.11	276.7	3413	12	100	230690.3	2087.3	2504.8	2713.5	2149.5	2603.6	2906.3	4601.7
61-1017	O	30	0.562	40.02	112.7	46.43	53.06	59.69	20	0.472	10	1690.2	469.5	563.4	610.4	483.5	585.6	653.7	1035.1
		762	14.288	1016.5	6058.2	226.69	259.06	291.43	3413	12	254.5	230818.5	2088.5	2506.2	2715	2150.7	2605	2907.9	4604.3
61-913	O	32	0.438	35.94	112.8	41.67	47.34	53.01	20	0.472	3.9	1804.2	469.8	563.8	610.8	483.8	586	654.2	1035.8
		812.8	11.112	912.8	6062.3	203.44	231.14	258.83	3413	12	100	246373.8	2089.9	2507.9	2716.9	2152.1	2606.8	2909.9	4607.4
61-1367	O	42	0.375	53.81	112.8	33.19	38.04	42.9	20	0.472	11.8	2368.6	470	564	611	484	586.2	654.4	1036.1
		1066.8	9.525	1366.8	6064.1	162.03	185.75	209.47	3413	12	300	323459.2	2090.5	2508.6	2717.7	2152.8	2607.6	2910.8	4608.7
61-1168	O	38	0.394	45.99	112.9	35.98	41.09	46.2	20	0.472	8	2145.6	470.5	564.6	611.7	484.5	586.9	655.1	1037.3
		965.2	10	1168.2	6071.4	175.68	200.63	225.58	3413	12	203	293003.8	2093	2511.6	2720.9	2155.3	2610.7	2914.3	4614.2
61-928	O	34	0.394	36.52	113.4	39.09	44.37	49.65	20	0.472	2.5	1928.4	472.7	567.2	614.4	486.7	589.6	658.1	1042
		863.6	10	927.6	6098.7	190.85	216.64	242.43	3413	12	64	263343	2102.5	2523	2733.2	2165	2622.5	2927.4	4635
61-966	O	28	0.625	38.02	113.6	50.36	57.52	64.69	20	0.472	10	1590	473.2	567.9	615.2	487.3	590.3	658.9	1043.2
		711.2	15.875	965.7	6106	245.88	280.86	315.84	3413	12	254.5	217130.6	2105	2526	2736.5	2167.6	2625.6	2930.9	4640.6
61-1164	O	34	0.5	45.81	113.8	41.54	47.56	53.59	20	0.472	11.8	1934.1	474	568.8	616.2	488.1	591.3	660	1045.1
		863.6	12.7	1163.6	6116.6	202.8	232.22	261.65	3413	12	300	264114.8	2108.6	2530.3	2741.2	2171.4	2630.1	2936	4648.6
61-1147	O	36	0.438	45.17	114.1	38.64	44.16	49.68	20	0.472	9.2	2053	475.2	570.3	617.8	489.4	592.8	661.7	1047.7
		914.4	11.112	1147.4	6131.9	188.67	215.6	242.54	3413	12	233	280350.4	2113.9	2536.7	2748.1	2176.8	2636.7	2943.3	4660.2
61-1283	O	40	0.394	50.51	114.1	35.01	40.08	45.15	20	0.472	10.5	2282.2	475.5	570.5	618.1	489.6	593	662	1048.2
		1016	10	1283	6134.9	170.94	195.69	220.44	3413	12	267	311652.4	2114.9	2537.9	2749.4	2177.9	2638	2944.7	4662.5
61-1097	O	34	0.472	43.17	114.3	41.1	46.96	52.81	20	0.472	9.2	1943.9	476.4	571.7	619.4	490.6	594.3	663.4	1050.3
		863.6	12	1096.6	6147.6	200.68	229.26	257.85	3413	12	233	265452.3	2119.3	2543.2	2755.1	2182.4	2643.5	2950.8	4672.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
62-1219	O	40	0.375	47.99	114.6	34.6	39.51	44.42	20	0.472	8	2291.1	477.3	572.8	620.5	491.5	595.4	664.6	1052.3
		1016	9.525	1219	6158.9	168.92	192.9	216.88	3413	12	203	312873.7	2123.2	2547.9	2760.2	2186.4	2648.3	2956.3	4680.8
62-775	O	28	0.5	30.52	114.7	48.52	55.06	61.6	20	0.472	2.5	1606.1	478	573.6	621.4	492.2	596.2	665.6	1053.8
		711.2	12.7	775.2	6167.8	236.89	268.82	300.75	3413	12	64	219326.6	2126.3	2551.5	2764.2	2189.6	2652.1	2960.5	4687.5
62-995	O	30	0.562	39.17	115.1	47.18	53.87	60.56	20	0.472	9.2	1726.8	479.7	575.6	623.6	493.9	598.3	667.9	1057.4
		762	14.288	995	6189.1	230.36	263.02	295.68	3413	12	233	235806	2133.6	2560.4	2773.7	2197.1	2661.3	2970.8	4703.7
62-1016	O	32	0.5	39.99	115.1	43.8	49.98	56.16	20	0.472	8	1842	479.7	575.6	623.6	494	598.3	667.9	1057.5
		812.8	12.7	1015.8	6189.3	213.87	244.04	274.21	3413	12	203	251534.8	2133.7	2560.4	2773.8	2197.2	2661.4	2970.9	4703.9
62-1145	O	38	0.394	45.09	115.2	36.18	41.22	46.26	20	0.472	7.1	2188.7	480	576	624	494.3	598.7	668.3	1058.2
		965.2	10	1145.2	6193.3	176.67	201.27	225.88	3413	12	180	298888.4	2135.1	2562.1	2775.6	2198.6	2663.1	2972.8	4706.9
62-1271	O	40	0.394	50.02	115.2	35.17	40.22	45.28	20	0.472	10	2304.6	480.1	576.2	624.2	494.4	598.9	668.5	1058.5
		1016	10	1270.5	6195.2	171.7	196.39	221.08	3413	12	254.5	314718.6	2135.7	2562.9	2776.5	2199.3	2664	2973.7	4708.4
62-978	O	36	0.375	38.52	115.2	37.4	42.45	47.5	20	0.472	2.5	2074.4	480.2	576.2	624.3	494.5	599	668.6	1058.6
		914.4	9.525	978.4	6196.1	182.61	207.27	231.94	3413	12	64	283283.9	2136	2563.2	2776.8	2199.6	2664.3	2974.1	4709
62-877	O	24	0.812	34.51	115.4	60.9	69.53	78.15	20	0.472	10.5	1384.8	480.8	577	625.1	495.2	599.8	669.5	1060
		609.6	20.638	876.6	6204.4	297.33	339.45	381.57	3413	12	267	189109.1	2138.9	2566.7	2780.5	2202.5	2667.9	2978.1	4715.3
62-1265	O	38	0.438	49.81	115.5	37.55	43.01	48.47	20	0.472	11.8	2193.9	481.1	577.3	625.5	495.4	600.1	669.9	1060.7
		965.2	11.112	1265.2	6208	183.33	209.99	236.66	3413	12	300	299596.1	2140.1	2568.1	2782.2	2203.8	2669.4	2979.8	4718
62-960	O	26	0.75	37.81	115.6	56.26	64.31	72.35	20	0.472	11.8	1502.5	481.6	577.9	626	495.9	600.7	670.5	1061.6
		660.4	19.05	960.4	6213.7	274.7	313.97	353.25	3413	12	300	205177.2	2142.1	2570.5	2784.7	2205.9	2671.9	2982.6	4722.4
62-1334	O	42	0.375	52.51	115.6	33.71	38.59	43.47	20	0.472	10.5	2427.2	481.6	577.9	626.1	495.9	600.7	670.6	1061.7
		1066.8	9.525	1333.8	6214.1	164.59	188.41	212.24	3413	12	267	331462	2142.2	2570.7	2784.9	2206	2672.1	2982.8	4722.7
62-813	O	24	0.75	31.99	115.8	60.17	68.57	76.97	20	0.472	8	1389.9	482.6	579.1	627.4	497	602	672	1063.9
		609.6	19.05	812.6	6227.1	293.78	334.8	375.82	3413	12	203	189801.9	2146.7	2576.1	2790.7	2210.6	2677.7	2989	4732.6
62-1214	O	36	0.472	47.81	116	39.87	45.66	51.44	20	0.472	11.8	2088.5	483.4	580.1	628.5	497.8	603	673.1	1065.8
		914.4	12	1214.4	6238	194.68	222.92	251.16	3413	12	300	285202.6	2150.5	2580.6	2795.6	2214.5	2682.4	2994.3	4740.9
62-944	O	28	0.625	37.17	116.2	51.24	58.48	65.72	20	0.472	9.2	1626.2	484	580.8	629.2	498.4	603.7	673.9	1067
		711.2	15.875	944.2	6245.1	250.18	285.52	320.87	3413	12	233	222074.8	2152.9	2583.5	2798.8	2217	2685.4	2997.6	4746.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
63-1014	O	36	0.394	39.94	116.5	38.03	43.2	48.38	20	0.472	3.9	2097.3	485.5	582.6	631.1	499.9	605.6	676	1070.3
		914.4	10	1014.4	6264.4	185.69	210.95	236.2	3413	12	100	286407.7	2159.6	2591.5	2807.4	2223.9	2693.7	3006.9	4760.9
63-1321	O	42	0.375	52.02	116.7	33.85	38.71	43.58	20	0.472	10	2450.2	486.2	583.4	632	500.6	606.4	676.9	1071.8
		1066.8	9.525	1321.3	6272.9	165.26	189.01	212.77	3413	12	254.5	334597.7	2162.5	2595	2811.3	2226.9	2697.4	3011	4767.4
63-1196	O	40	0.375	47.09	116.8	34.76	39.6	44.45	20	0.472	7.1	2335.2	486.5	583.8	632.4	501	606.8	677.4	1072.5
		1016	9.525	1196	6277.4	169.74	193.37	217	3413	12	180	318890.5	2164	2596.9	2813.3	2228.5	2699.3	3013.1	4770.8
63-864	O	24	0.812	34.02	117.1	61.5	70.16	78.82	20	0.472	10	1404.8	487.8	585.4	634.1	502.3	608.4	679.2	1075.4
		609.6	20.638	864.1	6294.1	300.28	342.56	384.83	3413	12	254.5	191844.7	2169.8	2603.8	2820.8	2234.4	2706.5	3021.2	4783.5
63-1131	O	34	0.5	44.51	117.1	42.4	48.48	54.57	20	0.472	10.5	1990.5	487.9	585.4	634.2	502.4	608.5	679.3	1075.6
		863.6	12.7	1130.6	6295.1	207.01	236.72	266.44	3413	12	267	271823.8	2170.2	2604.2	2821.2	2234.8	2706.9	3021.7	4784.3
63-1117	O	36	0.438	43.99	117.1	39.37	44.94	50.5	20	0.472	8	2108.1	488	585.6	634.4	502.5	608.7	679.4	1075.8
		914.4	11.112	1117.4	6296.5	192.24	219.4	246.56	3413	12	203	287877.2	2170.7	2604.8	2821.8	2235.3	2707.5	3022.3	4785.4
63-1249	O	40	0.394	49.17	117.2	35.57	40.65	45.72	20	0.472	9.2	2344.3	488.4	586.1	634.9	502.9	609.2	680	1076.7
		1016	10	1249	6301.9	173.68	198.46	223.25	3413	12	233	320136.1	2172.5	2607	2824.2	2237.2	2709.8	3024.9	4789.4
63-877	O	32	0.438	34.52	117.4	43.07	48.87	54.68	20	0.472	2.5	1878.2	489.1	586.9	635.9	503.7	610.1	681	1078.3
		812.8	11.112	876.8	6311.3	210.29	238.63	266.96	3413	12	64	256489.5	2175.7	2610.9	2828.4	2240.5	2713.8	3029.4	4796.6
63-1113	O	32	0.562	43.81	117.5	45.62	52.2	58.77	20	0.472	11.8	1880.5	489.7	587.6	636.6	504.3	610.8	681.8	1079.6
		812.8	14.288	1112.8	6318.7	222.73	254.84	286.94	3413	12	300	256792.8	2178.3	2614	2831.8	2243.1	2717	3033	4802.2
63-826	O	30	0.472	32.52	117.5	46.17	52.38	58.6	20	0.472	2.5	1762.9	489.7	587.6	636.6	504.3	610.8	681.8	1079.6
		762	12	826	6318.8	225.41	255.76	286.11	3413	12	64	240744.6	2178.3	2614	2831.8	2243.2	2717.1	3033	4802.3
63-1067	O	34	0.472	41.99	117.6	41.94	47.85	53.76	20	0.472	8	1998.5	489.8	587.8	636.8	504.4	611	682	1079.9
		863.6	12	1066.6	6320.5	204.75	233.62	262.49	3413	12	203	272918.6	2178.9	2614.7	2832.6	2243.8	2717.8	3033.8	4803.6
63-993	O	32	0.5	39.09	117.8	44.22	50.34	56.47	20	0.472	7.1	1884.6	490.8	588.9	638	505.4	612.2	683.4	1082
		812.8	12.7	992.8	6332.7	215.89	245.79	275.69	3413	12	180	257362	2183.1	2619.8	2838.1	2248.1	2723.1	3039.7	4812.9
64-1065	O	38	0.375	41.94	118.1	36.44	41.4	46.35	20	0.472	3.9	2244.6	492.2	590.7	639.9	506.9	614	685.4	1085.2
		965.2	9.525	1065.2	6351.6	177.93	202.11	226.29	3413	12	100	306526.5	2189.6	2627.5	2846.5	2254.8	2731.2	3048.8	4827.2
64-1367	O	42	0.394	53.81	118.3	34.66	39.7	44.74	20	0.472	11.8	2483.4	492.7	591.3	640.6	507.4	614.6	686.1	1086.3
		1066.8	10	1366.8	6358	169.21	193.83	218.45	3413	12	300	339134.5	2191.8	2630.2	2849.4	2257.1	2733.9	3051.8	4832.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
64-674	O	24	0.625	26.52	118.3	59.16	67.11	75.05	20	0.472	2.5	1419.4	492.9	591.4	640.7	507.5	614.8	686.2	1086.6
		609.6	15.875	673.6	6359.5	288.86	327.64	366.41	3413	12	64	193837.6	2192.4	2630.8	2850.1	2257.6	2734.6	3052.6	4833.2
64-1118	O	34	0.5	44.02	118.4	42.66	48.74	54.82	20	0.472	10	2012.8	493.3	592	641.3	508	615.3	686.9	1087.6
		863.6	12.7	1118.1	6365.5	208.27	237.97	267.67	3413	12	254.5	274862.7	2194.4	2633.3	2852.8	2259.8	2737.2	3055.4	4837.8
64-1011	O	28	0.688	39.81	118.5	53.02	60.61	68.2	20	0.472	11.8	1659.1	493.8	592.5	641.9	508.5	615.9	687.5	1088.6
		711.2	17.462	1011.2	6371.3	258.88	295.93	332.98	3413	12	300	226563.5	2196.4	2635.7	2855.4	2261.8	2739.7	3058.2	4842.2
64-1232	O	38	0.438	48.51	118.6	38.23	43.73	49.23	20	0.472	10.5	2252.7	494	592.8	642.2	508.7	616.2	687.8	1089.1
		965.2	11.112	1232.2	6374.2	186.67	213.53	240.38	3413	12	267	307619.7	2197.4	2636.9	2856.7	2262.8	2740.9	3059.6	4844.4
64-1300	O	42	0.375	51.17	118.6	34.21	39.1	43.98	20	0.472	9.2	2490.7	494.2	593	642.5	508.9	616.4	688.1	1089.5
		1066.8	9.525	1299.8	6376.7	167.05	190.88	214.72	3413	12	233	340132.3	2198.3	2637.9	2857.8	2263.7	2742	3060.8	4846.3
64-965	O	30	0.562	37.99	118.7	48.29	55.07	61.85	20	0.472	8	1780.5	494.6	593.5	642.9	509.3	616.9	688.6	1090.3
		762	14.288	965	6381.5	235.79	268.89	301.98	3413	12	203	243136.8	2200	2639.9	2859.9	2265.4	2744.1	3063.1	4850
64-910	O	24	0.875	35.81	118.8	63.12	72.08	81.04	20	0.472	11.8	1425.9	495.1	594.1	643.7	509.9	617.6	689.4	1091.5
		609.6	22.225	909.6	6388.6	308.19	351.93	395.66	3413	12	300	194724.1	2202.4	2642.9	2863.1	2267.9	2747.1	3066.5	4855.3
64-862	O	30	0.5	33.94	118.9	46.97	53.33	59.7	20	0.472	3.9	1782.9	495.3	594.3	643.8	510	617.7	689.6	1091.8
		762	12.7	862	6390.3	229.33	260.4	291.46	3413	12	100	243471	2203	2643.6	2863.9	2268.6	2747.8	3067.4	4856.6
64-659	O	22	0.75	25.94	119	66.16	75.07	83.98	20	0.472	3.9	1309.2	495.9	595.1	644.7	510.7	618.6	690.5	1093.3
		558.8	19.05	658.8	6398.7	323.01	366.52	410.04	3413	12	100	178780.4	2205.9	2647.1	2867.6	2271.5	2751.5	3071.4	4863
64-1062	O	30	0.625	41.81	119.1	49.46	56.56	63.66	20	0.472	11.8	1786.3	496.2	595.4	645.1	511	618.9	690.9	1093.9
		762	15.875	1062	6402.6	241.49	276.14	310.79	3413	12	300	243938.8	2207.2	2648.7	2869.4	2272.9	2753.1	3073.2	4866
64-790	O	24	0.75	31.09	119.2	61.17	69.57	77.96	20	0.472	7.1	1430.4	496.7	596	645.7	511.4	619.5	691.5	1094.9
		609.6	19.05	789.6	6408.5	298.66	339.65	380.64	3413	12	180	195330.5	2209.2	2651.1	2872	2275	2755.6	3076.1	4870.4
64-1181	O	36	0.472	46.51	119.3	40.65	46.49	52.32	20	0.472	10.5	2146.8	497	596.3	646	511.7	619.9	691.9	1095.6
		914.4	12	1181.4	6412.3	198.48	226.96	255.45	3413	12	267	293169.1	2210.6	2652.7	2873.7	2276.4	2757.3	3077.9	4873.3
64-1418	O	44	0.375	55.81	119.5	33.38	38.23	43.09	20	0.472	11.8	2629	497.9	597.5	647.3	512.7	621.1	693.3	1097.7
		1117.6	9.525	1417.6	6424.7	162.95	186.67	210.39	3413	12	300	359013.1	2214.8	2657.8	2879.3	2280.8	2762.6	3083.9	4882.8
64-1094	O	36	0.438	43.09	119.6	39.66	45.16	50.65	20	0.472	7.1	2152.4	498.2	597.9	647.7	513.1	621.5	693.7	1098.4
		914.4	11.112	1094.4	6428.9	193.63	220.47	247.31	3413	12	180	293927.3	2216.3	2659.5	2881.1	2282.2	2764.4	3085.9	4885.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
64-927	O	26	0.75	36.51	119.7	57.84	66.03	74.21	20	0.472	10.5	1555.9	498.7	598.4	648.3	513.5	622	694.4	1099.4
		660.4	19.05	927.4	6434.8	282.39	322.37	362.35	3413	12	267	212478.1	2218.3	2662	2883.8	2284.4	2767	3088.7	4890.5
64-1220	O	38	0.438	48.02	119.8	38.43	43.92	49.41	20	0.472	10	2275.7	499.1	598.9	648.8	513.9	622.5	694.9	1100.2
		965.2	11.112	1219.7	6439.5	187.62	214.44	241.25	3413	12	254.5	310772.3	2220	2663.9	2885.9	2286	2769	3091	4894.1
65-914	O	28	0.625	35.99	120	52.55	59.9	67.25	20	0.472	8	1679.6	499.9	599.9	649.8	514.8	623.5	696	1102
		711.2	15.875	914.2	6450	256.56	292.45	328.35	3413	12	203	229362.3	2223.6	2668.3	2890.6	2289.8	2773.5	3096	4902
65-843	O	24	0.812	33.17	120.1	62.77	71.55	80.34	20	0.472	9.2	1440.7	500.2	600.3	650.3	515.1	624	696.5	1102.8
		609.6	20.638	842.6	6454.7	306.49	349.36	392.23	3413	12	233	196739.9	2225.2	2670.2	2892.7	2291.4	2775.5	3098.3	4905.6
65-1219	O	40	0.394	47.99	120.1	36.17	41.27	46.38	20	0.472	8	2402	500.4	600.5	650.5	515.3	624.2	696.8	1103.2
		1016	10	1219	6457	176.58	201.52	226.45	3413	12	203	328014.8	2226	2671.2	2893.8	2292.2	2776.5	3099.4	4907.3
65-1044	O	34	0.472	41.09	120.2	42.29	48.14	54	20	0.472	7.1	2042.6	500.6	600.8	650.8	515.5	624.5	697.1	1103.7
		863.6	12	1043.6	6459.8	206.48	235.06	263.64	3413	12	180	278933.5	2226.9	2672.3	2895	2293.2	2777.7	3100.7	4909.4
65-1169	O	36	0.472	46.02	120.5	40.88	46.71	52.54	20	0.472	10	2169.8	502.3	602.7	652.9	517.2	626.5	699.3	1107.3
		914.4	12	1168.9	6480.8	199.6	228.06	256.51	3413	12	254.5	296304.2	2234.2	2681	2904.4	2300.7	2786.8	3110.8	4925.4
65-1097	O	34	0.5	43.17	120.7	43.27	49.39	55.52	20	0.472	9.2	2052.2	503	603.6	653.9	518	627.4	700.4	1108.9
		863.6	12.7	1096.6	6490.3	211.24	241.15	271.06	3413	12	233	280251.7	2237.5	2684.9	2908.7	2304.1	2790.8	3115.3	4932.6
65-978	O	36	0.394	38.52	120.8	39.16	44.43	49.7	20	0.472	2.5	2174.5	503.4	604	654.4	518.3	627.8	700.9	1109.7
		914.4	10	978.4	6494.9	191.18	216.92	242.65	3413	12	64	296946	2239	2686.8	2910.7	2305.7	2792.8	3117.5	4936.1
65-964	O	34	0.438	37.94	120.9	41.84	47.51	53.18	20	0.472	3.9	2054.9	503.7	604.4	654.8	518.6	628.2	701.3	1110.3
		863.6	11.112	963.6	6498.8	204.27	231.95	259.64	3413	12	100	280616.4	2240.4	2688.4	2912.5	2307.1	2794.5	3119.4	4939.1
65-1080	O	32	0.562	42.51	121.1	46.65	53.3	59.96	20	0.472	10.5	1937.9	504.7	605.6	656.1	519.7	629.5	702.7	1112.6
		812.8	14.288	1079.8	6511.8	227.75	260.24	292.73	3413	12	267	264640.7	2244.9	2693.8	2918.3	2311.7	2800.1	3125.7	4949
65-1334	O	42	0.394	52.51	121.2	35.22	40.29	45.35	20	0.472	10.5	2544.9	504.9	605.9	656.4	520	629.8	703.1	1113.2
		1066.8	10	1333.8	6515.3	171.94	196.69	221.44	3413	12	267	347525.1	2246.1	2695.3	2919.9	2312.9	2801.6	3127.3	4951.6
65-915	O	26	0.75	36.02	121.3	58.37	66.58	74.79	20	0.472	10	1577.2	505.5	606.6	657.2	520.6	630.5	703.9	1114.4
		660.4	19.05	914.9	6522.7	284.97	325.06	365.16	3413	12	254.5	215381.1	2248.6	2698.4	2923.2	2315.6	2804.8	3130.9	4957.3
65-913	O	32	0.472	35.94	121.4	44.77	50.83	56.89	20	0.472	3.9	1941.8	505.7	606.8	657.4	520.7	630.8	704.1	1114.8
		812.8	12	912.8	6525	218.59	248.18	277.77	3413	12	100	265176.4	2249.4	2699.3	2924.2	2316.4	2805.8	3132	4959

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
65-1270	O	42	0.375	49.99	121.4	34.75	39.66	44.57	20	0.472	8	2549.6	505.9	607	657.6	520.9	631	704.4	1115.2
		1066.8	9.525	1269.8	6527.3	169.68	193.64	217.6	3413	12	203	348168.2	2250.2	2700.3	2925.3	2317.2	2806.8	3133.1	4960.8
65-942	O	30	0.562	37.09	121.6	48.84	55.57	62.31	20	0.472	7.1	1823.9	506.6	608	658.6	521.7	632	705.4	1116.9
		762	14.288	942	6537.4	238.46	271.34	304.21	3413	12	180	249073.2	2253.7	2704.4	2929.8	2320.8	2811.1	3137.9	4968.4
66-1198	O	38	0.438	47.17	121.9	38.91	44.43	49.95	20	0.472	9.2	2316.6	508	609.6	660.4	523.1	633.7	707.3	1120
		965.2	11.112	1198.2	6555.1	189.97	216.92	243.87	3413	12	233	316348.7	2259.8	2711.7	2937.7	2327.1	2818.7	3146.4	4981.9
66-1029	O	38	0.375	40.52	122.3	37.46	42.49	47.53	20	0.472	2.5	2323.2	509.5	611.4	662.3	524.6	635.5	709.4	1123.2
		965.2	9.525	1029.2	6573.7	182.87	207.48	232.08	3413	12	64	317248.3	2266.2	2719.5	2946.1	2333.7	2826.7	3155.4	4996
66-1321	O	42	0.394	52.02	122.3	35.37	40.42	45.48	20	0.472	10	2568.9	509.7	611.7	662.6	524.9	635.8	709.7	1123.7
		1066.8	10	1321.3	6576.9	172.68	197.37	222.06	3413	12	254.5	350812.8	2267.3	2720.8	2947.5	2334.8	2828.1	3156.9	4998.5
66-1385	O	44	0.375	54.51	122.3	33.89	38.76	43.64	20	0.472	10.5	2691.7	509.8	611.7	662.7	525	635.9	709.8	1123.9
		1117.6	9.525	1384.6	6577.8	165.44	189.26	213.07	3413	12	267	367569.7	2267.6	2721.2	2947.9	2335.1	2828.5	3157.4	4999.2
66-922	O	24.5	0.875	36.31	122.4	63.49	72.48	81.47	20	0.472	11.8	1499.4	510	612	663	525.2	636.1	710.1	1124.3
		622.3	22.225	922.3	6580.7	309.98	353.87	397.76	3413	12	300	204758.2	2268.6	2722.3	2949.2	2336.1	2829.7	3158.7	5001.3
66-1196	O	40	0.394	47.09	122.4	36.36	41.4	46.44	20	0.472	7.1	2448.2	510	612	663.1	525.2	636.2	710.2	1124.4
		1016	10	1196	6581.2	177.54	202.15	226.76	3413	12	180	334322.7	2268.8	2722.5	2949.4	2336.3	2829.9	3159	5001.7
66-978	O	28	0.688	38.51	122.5	54.41	62.12	69.83	20	0.472	10.5	1715.1	510.4	612.5	663.6	525.6	636.7	710.7	1125.3
		711.2	17.462	978.2	6586.2	265.64	303.28	340.92	3413	12	267	234206.7	2270.5	2724.6	2951.7	2338.1	2832.1	3161.4	5005.5
66-811	O	28	0.562	31.94	122.5	52.11	59.14	66.18	20	0.472	3.9	1715.1	510.4	612.5	663.6	525.6	636.7	710.7	1125.3
		711.2	14.288	811.2	6586.3	254.42	288.77	323.12	3413	12	100	234209.8	2270.6	2724.7	2951.7	2338.1	2832.1	3161.4	5005.6
66-1214	O	36	0.5	47.81	122.5	41.95	47.99	54.03	20	0.472	11.8	2205.2	510.5	612.6	663.6	525.7	636.7	710.8	1125.4
		914.4	12.7	1214.4	6586.7	204.8	234.3	263.81	3413	12	300	301143.8	2270.7	2724.8	2951.9	2338.3	2832.3	3161.6	5005.9
66-1067	O	32	0.562	42.02	122.5	46.97	53.63	60.28	20	0.472	10	1960.6	510.6	612.7	663.8	525.8	636.9	710.9	1125.6
		812.8	14.288	1067.3	6588.1	229.32	261.83	294.33	3413	12	254.5	267740.1	2271.2	2725.4	2952.5	2338.8	2832.9	3162.3	5007
66-710	O	24	0.688	27.94	122.5	61.75	70.07	78.38	20	0.472	3.9	1470.5	510.6	612.7	663.8	525.8	636.9	710.9	1125.7
		609.6	17.462	709.6	6588.4	301.49	342.1	382.7	3413	12	100	200816	2271.3	2725.5	2952.7	2338.9	2833	3162.5	5007.2
66-1147	O	36	0.472	45.17	122.8	41.43	47.29	53.16	20	0.472	9.2	2210.4	511.7	614	665.2	526.9	638.2	712.4	1128
		914.4	12	1147.4	6602.3	202.27	230.91	259.54	3413	12	233	301856.4	2276.1	2731.3	2958.9	2343.8	2839	3169.1	5017.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
66-1029	O	30	0.625	40.51	122.9	50.66	57.86	65.06	20	0.472	10.5	1843.6	512.1	614.5	665.7	527.4	638.8	713	1129
		762	15.875	1029	6607.9	247.35	282.49	317.63	3413	12	267	251761.9	2278	2733.6	2961.4	2345.8	2841.4	3171.8	5022
66-891	O	28	0.625	35.09	123.1	53.24	60.55	67.87	20	0.472	7.1	1722.9	512.8	615.3	666.6	528	639.6	714	1130.5
		711.2	15.875	891.2	6616.5	259.92	295.65	331.39	3413	12	180	235281.6	2280.9	2737.1	2965.2	2348.8	2845.1	3175.9	5028.5
66-1316	O	40	0.438	51.81	123.2	37.83	43.3	48.77	20	0.472	11.8	2464.3	513.4	616.1	667.4	528.7	640.4	714.8	1131.8
		1016	11.112	1316	6624.6	184.72	211.41	238.1	3413	12	300	336528.1	2283.7	2740.5	2968.9	2351.7	2848.6	3179.8	5034.7
66-877	O	24	0.875	34.51	123.3	65.05	74.19	83.34	20	0.472	10.5	1479.6	513.8	616.5	667.9	529	640.8	715.3	1132.6
		609.6	22.225	876.6	6629.1	317.58	362.23	406.88	3413	12	267	202054.5	2285.3	2742.4	2970.9	2353.3	2850.5	3182	5038.1
66-1372	O	44	0.375	54.02	123.5	34.02	38.88	43.75	20	0.472	10	2716.2	514.4	617.3	668.8	529.7	641.7	716.3	1134.1
		1117.6	9.525	1372.1	6637.8	166.1	189.84	213.59	3413	12	254.5	370918.3	2288.3	2745.9	2974.8	2356.4	2854.2	3186.1	5044.7
66-1247	O	42	0.375	49.09	123.6	34.92	39.76	44.59	20	0.472	7.1	2596.6	515.2	618.2	669.8	530.5	642.6	717.3	1135.8
		1066.8	9.525	1246.8	6647.7	170.48	194.1	217.73	3413	12	180	354591	2291.7	2750.1	2979.2	2360	2858.5	3190.9	5052.3
67-1065	O	38	0.394	41.94	123.8	38.15	43.31	48.48	20	0.472	3.9	2353.1	516	619.2	670.8	531.4	643.7	718.5	1137.6
		965.2	10	1065.2	6658.4	186.25	211.47	236.69	3413	12	100	321335.9	2295.4	2754.5	2984	2363.7	2863.1	3196	5060.4
67-826	O	30	0.5	32.52	124	48.69	55.22	61.76	20	0.472	2.5	1860.6	516.8	620.2	671.9	532.2	644.7	719.6	1139.4
		762	12.7	826	6668.8	237.73	269.62	301.52	3413	12	64	254082.3	2299	2758.8	2988.7	2367.4	2867.6	3201	5068.3
67-966	O	28	0.688	38.02	124.1	54.86	62.59	70.32	20	0.472	10	1737.3	517	620.4	672.2	532.4	644.9	719.9	1139.9
		711.2	17.462	965.7	6671.5	267.86	305.59	343.32	3413	12	254.5	237238.3	2299.9	2759.9	2989.9	2368.4	2868.7	3202.3	5070.3
67-1067	O	34	0.5	41.99	124.1	44.16	50.35	56.54	20	0.472	8	2110	517.1	620.6	672.3	532.5	645.1	720.1	1140.1
		863.6	12.7	1066.6	6672.9	215.61	245.84	276.07	3413	12	203	288134.3	2300.4	2760.5	2990.5	2368.9	2869.3	3203	5071.4
67-893	O	26	0.75	35.17	124.2	59.49	67.81	76.12	20	0.472	9.2	1615.2	517.7	621.2	673	533.1	645.7	720.8	1141.3
		660.4	19.05	893.4	6679.7	290.45	331.06	371.67	3413	12	233	220564.4	2302.8	2763.3	2993.6	2371.3	2872.3	3206.3	5076.6
67-1265	O	38	0.472	49.81	124.3	40.22	46.01	51.81	20	0.472	11.8	2362.6	518.1	621.7	673.5	533.5	646.2	721.4	1142.2
		965.2	12	1265.2	6685.2	196.37	224.66	252.96	3413	12	300	322628.8	2304.7	2765.6	2996	2373.3	2874.6	3208.9	5080.8
67-1300	O	42	0.394	51.17	124.4	35.76	40.84	45.91	20	0.472	9.2	2611.4	518.1	621.8	673.6	533.6	646.3	721.4	1142.3
		1066.8	10	1299.8	6685.7	174.6	199.38	224.16	3413	12	233	356615.6	2304.8	2765.8	2996.3	2373.4	2874.9	3209.1	5081.1
67-1017	O	30	0.625	40.02	124.4	51.05	58.26	65.46	20	0.472	10	1866.3	518.4	622.1	673.9	533.8	646.6	721.8	1142.9
		762	15.875	1016.5	6689.2	249.24	284.43	319.62	3413	12	254.5	254857.8	2306	2767.2	2997.8	2374.7	2876.3	3210.8	5083.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
67-813	O	24	0.812	31.99	124.5	64.67	73.63	82.6	20	0.472	8	1493.9	518.7	622.5	674.3	534.2	647	722.2	1143.5
		609.6	20.638	812.6	6693	315.75	359.51	403.28	3413	12	203	204003.2	2307.3	2768.8	2999.5	2376	2878	3212.6	5086.7
67-1168	O	38	0.438	45.99	125.1	39.61	45.18	50.74	20	0.472	8	2376.1	521.1	625.3	677.4	536.6	649.9	725.5	1148.7
		965.2	11.112	1168.2	6723.4	193.41	220.58	247.75	3413	12	203	324472.7	2317.8	2781.4	3013.2	2386.8	2891.1	3227.2	5109.8
67-1046	O	32	0.562	41.17	125.1	47.69	54.41	61.12	20	0.472	9.2	2000.9	521.1	625.3	677.4	536.6	649.9	725.5	1148.7
		812.8	14.288	1045.8	6723.5	232.86	265.65	298.43	3413	12	233	273244.4	2317.9	2781.4	3013.2	2386.9	2891.1	3227.3	5109.9
67-864	O	24	0.875	34.02	125.1	65.71	74.89	84.08	20	0.472	10	1501	521.2	625.4	677.5	536.7	650.1	725.7	1149
		609.6	22.225	864.1	6725	320.82	365.67	410.51	3413	12	254.5	204977.4	2318.4	2782	3013.9	2387.4	2891.7	3228	5111
67-1116	O	40	0.375	43.94	125.1	36.54	41.48	46.43	20	0.472	3.9	2502.6	521.4	625.6	677.8	536.9	650.3	725.9	1149.4
		1016	9.525	1116	6727.4	178.38	202.53	226.69	3413	12	100	341750	2319.2	2783	3014.9	2388.2	2892.8	3229.1	5112.8
67-1418	O	44	0.394	55.81	125.3	34.86	39.91	44.95	20	0.472	11.8	2756.6	522.1	626.5	678.7	537.6	651.2	726.9	1151
		1117.6	10	1417.6	6736.5	170.21	194.84	219.46	3413	12	300	376435.5	2322.3	2786.8	3019	2391.5	2896.7	3233.5	5119.7
67-1351	O	44	0.375	53.17	125.4	34.37	39.25	44.13	20	0.472	9.2	2759.4	522.6	627.1	679.4	538.2	651.9	727.7	1152.1
		1117.6	9.525	1350.6	6743.4	167.83	191.66	215.48	3413	12	233	376822.9	2324.7	2789.7	3022.1	2393.9	2899.7	3236.8	5125
68-928	O	34	0.438	36.52	125.6	43.17	48.96	54.76	20	0.472	2.5	2134.7	523.2	627.8	680.2	538.8	652.6	728.5	1153.4
		863.6	11.112	927.6	6751	210.78	239.07	267.35	3413	12	64	291507.1	2327.3	2792.8	3025.5	2396.6	2902.9	3240.5	5130.7
68-623	O	22	0.75	24.52	125.9	69.55	78.83	88.12	20	0.472	2.5	1384.9	524.6	629.5	681.9	540.2	654.3	730.4	1156.4
		558.8	19.05	622.8	6768.6	339.57	384.9	430.23	3413	12	64	189114.5	2333.4	2800.1	3033.4	2402.9	2910.5	3248.9	5144.1
68-1181	O	36	0.5	46.51	125.9	42.78	48.88	54.98	20	0.472	10.5	2266.8	524.7	629.7	682.1	540.3	654.5	730.6	1156.8
		914.4	12.7	1181.4	6770.7	208.88	238.66	268.45	3413	12	267	309555.6	2334.1	2800.9	3034.3	2403.6	2911.4	3249.9	5145.7
68-1117	O	36	0.472	43.99	126.1	42.23	48.15	54.07	20	0.472	8	2269.8	525.4	630.5	683	541.1	655.4	731.6	1158.3
		914.4	12	1117.4	6779.5	206.21	235.11	264.01	3413	12	203	309960.6	2337.2	2804.6	3038.3	2406.7	2915.2	3254.2	5152.5
68-910	O	24	0.938	35.81	126.3	67.1	76.55	86.01	20	0.472	11.8	1515.8	526.3	631.6	684.2	542	656.5	732.8	1160.3
		609.6	23.812	909.6	6791	327.59	373.76	419.92	3413	12	300	206991	2341.1	2809.4	3043.5	2410.8	2920.1	3259.7	5161.2
68-877	O	32	0.472	34.52	126.3	46.3	52.51	58.72	20	0.472	2.5	2021.6	526.5	631.7	684.4	542.1	656.7	733	1160.6
		812.8	12	876.8	6792.9	226.06	256.37	286.68	3413	12	64	276064.1	2341.8	2810.1	3044.3	2411.5	2921	3260.6	5162.6
68-1283	O	40	0.438	50.51	126.4	38.5	44	49.51	20	0.472	10.5	2527.7	526.6	631.9	684.6	542.3	656.9	733.2	1161
		1016	11.112	1283	6795	187.96	214.84	241.72	3413	12	267	345183.9	2342.5	2811	3045.2	2412.2	2921.8	3261.6	5164.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
68-1044	O	34	0.5	41.09	126.9	44.56	50.7	56.84	20	0.472	7.1	2156.5	528.5	634.3	687.1	544.3	659.3	735.9	1165.2
		863.6	12.7	1043.6	6819.9	217.58	247.55	277.51	3413	12	180	294484.5	2351.1	2821.3	3056.4	2421.1	2932.6	3273.6	5183.1
68-944	O	28	0.688	37.17	126.9	55.85	63.66	71.48	20	0.472	9.2	1776.8	528.8	634.6	687.5	544.6	659.6	736.3	1165.8
		711.2	17.462	944.2	6823.4	272.67	310.82	348.97	3413	12	233	242640.3	2352.3	2822.7	3058	2422.3	2934.1	3275.2	5185.8
68-889	O	24.5	0.875	35.01	126.9	65.4	74.57	83.75	20	0.472	10.5	1555.1	528.9	634.7	687.6	544.7	659.7	736.5	1166.1
		622.3	22.225	889.3	6824.9	319.31	364.1	408.9	3413	12	267	212356.4	2352.8	2823.4	3058.6	2422.8	2934.7	3275.9	5186.9
68-995	O	30	0.625	39.17	127.1	51.9	59.18	66.46	20	0.472	9.2	1906.6	529.6	635.5	688.5	545.4	660.6	737.4	1167.6
		762	15.875	995	6833.7	253.4	288.94	324.47	3413	12	233	260364.8	2355.8	2827	3062.6	2426	2938.5	3280.2	5193.6
68-1169	O	36	0.5	46.02	127.3	43.03	49.13	55.23	20	0.472	10	2291.1	530.3	636.4	689.4	546.1	661.5	738.4	1169.2
		914.4	12.7	1168.9	6843.1	210.11	239.88	269.65	3413	12	254.5	312865.9	2359.1	2830.9	3066.8	2429.3	2942.5	3284.7	5200.7
68-1164	O	34	0.562	45.81	127.3	46.15	52.75	59.36	20	0.472	11.8	2163.8	530.3	636.4	689.4	546.1	661.5	738.4	1169.2
		863.6	14.288	1163.6	6843.1	225.32	257.56	289.8	3413	12	300	295486.4	2359.1	2830.9	3066.8	2429.3	2942.5	3284.7	5200.8
68-1270	O	42	0.394	49.99	127.3	36.34	41.44	46.55	20	0.472	8	2673.1	530.4	636.5	689.5	546.2	661.6	738.5	1169.3
		1066.8	10	1269.8	6843.7	177.41	202.33	227.26	3413	12	203	365041	2359.3	2831.1	3067	2429.5	2942.8	3285	5201.2
69-1145	O	38	0.438	45.09	127.6	39.89	45.39	50.9	20	0.472	7.1	2423.8	531.5	637.8	691	547.4	663	740.1	1171.8
		965.2	11.112	1145.2	6858.5	194.76	221.63	248.5	3413	12	180	330989.3	2364.4	2837.2	3073.7	2434.8	2949.1	3292.1	5212.4
69-1271	O	40	0.438	50.02	127.6	38.69	44.18	49.68	20	0.472	10	2552.6	531.8	638.1	691.3	547.6	663.3	740.4	1172.4
		1016	11.112	1270.5	6861.8	188.89	215.72	242.56	3413	12	254.5	348580.1	2365.5	2838.6	3075.2	2435.9	2950.6	3293.7	5215
69-1232	O	38	0.472	48.51	127.7	40.97	46.82	52.66	20	0.472	10.5	2425.8	532	638.4	691.6	547.8	663.6	740.7	1172.8
		965.2	12	1232.2	6864.3	200.06	228.59	257.12	3413	12	267	331269.3	2366.4	2839.6	3076.3	2436.8	2951.6	3294.8	5216.8
69-913	O	32	0.5	35.94	128.1	47.21	53.58	59.94	20	0.472	3.9	2049.8	533.8	640.6	693.9	549.7	665.8	743.2	1176.8
		812.8	12.7	912.8	6887.7	230.51	261.59	292.67	3413	12	100	279917.8	2374.5	2849.4	3086.8	2445.1	2961.7	3306.1	5234.7
69-790	O	24	0.812	31.09	128.1	65.8	74.77	83.75	20	0.472	7.1	1537.4	533.8	640.6	694	549.7	665.8	743.3	1176.8
		609.6	20.638	789.6	6888	321.26	365.08	408.9	3413	12	180	209945.5	2374.5	2849.5	3086.9	2445.2	2961.8	3306.2	5234.9
69-1029	O	38	0.394	40.52	128.2	39.22	44.48	49.74	20	0.472	2.5	2435.4	534.1	640.9	694.3	550	666.2	743.6	1177.4
		965.2	10	1029.2	6891.3	191.48	217.16	242.85	3413	12	64	332575.8	2375.7	2850.8	3088.4	2446.4	2963.3	3307.8	5237.4
69-775	O	28	0.562	30.52	128.2	54.18	61.43	68.68	20	0.472	2.5	1794.7	534.1	641	694.4	550	666.3	743.7	1177.6
		711.2	14.288	775.2	6892.2	264.54	299.92	335.3	3413	12	64	245086.4	2376	2851.2	3088.8	2446.7	2963.6	3308.3	5238.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
69-843	O	24	0.875	33.17	128.3	67.09	76.41	85.73	20	0.472	9.2	1539.3	534.5	641.4	694.8	550.4	666.7	744.2	1178.3
		609.6	22.225	842.6	6896.6	327.55	373.06	418.56	3413	12	233	210207.7	2377.5	2853	3090.8	2448.3	2965.5	3310.4	5241.4
69-1321	O	44	0.375	51.99	128.3	34.9	39.8	44.7	20	0.472	8	2822.1	534.5	641.4	694.8	550.4	666.7	744.2	1178.3
		1117.6	9.525	1320.6	6896.6	170.38	194.32	218.27	3413	12	203	385383.2	2377.5	2853	3090.8	2448.3	2965.5	3310.4	5241.4
69-1385	O	44	0.394	54.51	128.3	35.41	40.48	45.54	20	0.472	10.5	2822.3	534.5	641.4	694.9	550.4	666.7	744.2	1178.4
		1117.6	10	1384.6	6897.1	172.87	197.62	222.36	3413	12	267	385407.3	2377.7	2853.2	3091	2448.5	2965.7	3310.6	5241.8
69-1011	O	28	0.75	39.81	128.4	57.3	65.43	73.55	20	0.472	11.8	1797.7	535	642	695.6	551	667.4	745	1179.5
		711.2	19.05	1011.2	6903.8	279.78	319.44	359.11	3413	12	300	245497.4	2380	2856	3094	2450.8	2968.6	3313.8	5246.9
69-863	O	26	0.75	33.99	128.6	61.16	69.63	78.11	20	0.472	8	1671.3	535.7	642.8	696.4	551.6	668.2	745.8	1180.9
		660.4	19.05	863.4	6911.8	298.61	339.98	381.35	3413	12	203	228228.2	2382.8	2859.3	3097.6	2453.7	2972.1	3317.7	5253
69-1094	O	36	0.472	43.09	128.7	42.58	48.44	54.3	20	0.472	7.1	2317.5	536.5	643.7	697.4	552.4	669.1	746.9	1182.7
		914.4	12	1094.4	6922	207.89	236.51	265.14	3413	12	180	316474.8	2386.3	2863.5	3102.2	2457.3	2976.5	3322.6	5260.7
69-1016	O	32	0.562	39.99	128.8	48.77	55.57	62.37	20	0.472	8	2060	536.5	643.8	697.4	552.4	669.1	747	1182.7
		812.8	14.288	1015.8	6922.1	238.1	271.3	304.5	3413	12	203	281314.2	2386.3	2863.6	3102.2	2457.3	2976.5	3322.6	5260.8
69-877	O	24.5	0.875	34.52	128.8	66.06	75.27	84.49	20	0.472	10	1577.2	536.5	643.8	697.4	552.4	669.2	747	1182.7
		622.3	22.225	876.8	6922.2	322.53	367.52	412.5	3413	12	254.5	215383.8	2386.3	2863.6	3102.2	2457.4	2976.5	3322.6	5260.9
69-1220	O	38	0.472	48.02	129	41.2	47.04	52.87	20	0.472	10	2450.7	537.4	644.9	698.7	553.4	670.4	748.3	1184.8
		965.2	12	1219.7	6934.6	201.15	229.65	258.15	3413	12	254.5	334664.3	2390.6	2868.7	3107.8	2461.8	2981.9	3328.6	5270.3
69-1014	O	36	0.438	39.94	129	41.99	47.66	53.33	20	0.472	3.9	2322.1	537.5	645	698.8	553.5	670.5	748.4	1185
		914.4	11.112	1014.4	6935.9	205.02	232.69	260.36	3413	12	100	317107.6	2391.1	2869.3	3108.4	2462.2	2982.4	3329.2	5271.3
69-674	O	24	0.688	26.52	129.1	64.65	73.28	81.91	20	0.472	2.5	1549.1	537.9	645.5	699.3	553.9	670.9	748.9	1185.8
		609.6	17.462	673.6	6940.6	315.66	357.78	399.9	3413	12	64	211548.4	2392.7	2871.2	3110.5	2463.9	2984.4	3331.5	5274.8
70-1080	O	40	0.375	42.52	129.3	37.5	42.53	47.56	20	0.472	2.5	2586	538.8	646.5	700.4	554.8	672	750.1	1187.7
		1016	9.525	1080	6951.6	183.11	207.66	232.21	3413	12	64	353141.7	2396.5	2875.8	3115.4	2467.8	2989.2	3336.8	5283.2
70-1372	O	44	0.394	54.02	129.5	35.56	40.61	45.67	20	0.472	10	2848	539.4	647.3	701.2	555.4	672.8	751	1189.1
		1117.6	10	1372.1	6959.9	173.59	198.28	222.97	3413	12	254.5	388918.4	2399.3	2879.2	3119.1	2470.8	2992.8	3340.7	5289.5
70-1247	O	42	0.394	49.09	129.6	36.53	41.57	46.61	20	0.472	7.1	2722.5	540.2	648.2	702.2	556.2	673.8	752.1	1190.8
		1066.8	10	1246.8	6969.9	178.35	202.96	227.57	3413	12	180	371774.9	2402.8	2883.3	3123.6	2474.3	2997.1	3345.6	5297.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
70-1147	O	36	0.5	45.17	129.7	43.62	49.76	55.9	20	0.472	9.2	2334	540.3	648.3	702.4	556.4	673.9	752.3	1191.1
		914.4	12.7	1147.4	6971.3	212.98	242.95	272.92	3413	12	233	318728.4	2403.3	2883.9	3124.3	2474.8	2997.7	3346.2	5298.2
70-1113	O	32	0.625	43.81	129.8	50.13	57.27	64.41	20	0.472	11.8	2077.1	540.9	649.1	703.2	557	674.7	753.2	1192.5
		812.8	15.875	1112.8	6979.6	244.76	279.62	314.48	3413	12	300	283649.4	2406.1	2887.3	3128	2477.7	3001.2	3350.2	5304.5
70-1249	O	40	0.438	49.17	129.8	39.15	44.68	50.2	20	0.472	9.2	2596.5	540.9	649.1	703.2	557	674.7	753.2	1192.6
		1016	11.112	1249	6979.9	191.16	218.13	245.1	3413	12	233	354580.5	2406.2	2887.5	3128.1	2477.9	3001.4	3350.4	5304.7
70-964	O	34	0.472	37.94	130.1	44.97	51.03	57.09	20	0.472	3.9	2212.2	542.2	650.6	704.9	558.3	676.3	754.9	1195.3
		863.6	12	963.6	6996.1	219.54	249.14	278.73	3413	12	100	302091.1	2411.8	2894.2	3135.4	2483.6	3008.3	3358.1	5317
70-1062	O	30	0.688	41.81	130.2	53.86	61.51	69.16	20	0.472	11.8	1952.6	542.4	650.9	705.1	558.5	676.5	755.2	1195.8
		762	17.462	1062	6998.7	262.98	300.32	337.66	3413	12	300	266649.7	2412.7	2895.2	3136.5	2484.5	3009.4	3359.4	5319
70-1298	O	44	0.375	51.09	130.6	35.06	39.89	44.73	20	0.472	7.1	2872.1	544	652.8	707.2	560.2	678.5	757.4	1199.2
		1117.6	9.525	1297.6	7018.9	171.16	194.78	218.4	3413	12	180	392214.1	2419.7	2903.6	3145.6	2491.7	3018.1	3369.1	5334.3
70-1131	O	34	0.562	44.51	131	47.15	53.82	60.5	20	0.472	10.5	2227	545.8	655	709.6	562.1	680.8	760	1203.3
		863.6	14.288	1130.6	7042.9	230.18	262.8	295.41	3413	12	267	304111.1	2427.9	2913.5	3156.3	2500.2	3028.4	3380.6	5352.6
70-1367	O	42	0.438	53.81	131	38.1	43.57	49.04	20	0.472	11.8	2751.1	545.8	655	709.6	562.1	680.8	760	1203.4
		1066.8	11.112	1366.8	7043.2	186	212.72	239.44	3413	12	300	375682.6	2428	2913.7	3156.5	2500.3	3028.6	3380.7	5352.8
70-965	O	30	0.625	37.99	131.1	53.16	60.55	67.93	20	0.472	8	1965.9	546.1	655.3	709.9	562.3	681.1	760.3	1203.9
		762	15.875	965	7046.2	259.54	295.61	331.67	3413	12	203	268459.1	2429.1	2914.9	3157.8	2501.4	3029.9	3382.2	5355.1
70-877	O	24	0.938	34.51	131.1	69.17	78.83	88.49	20	0.472	10.5	1572.8	546.1	655.3	710	562.4	681.2	760.4	1204
		609.6	23.812	876.6	7046.7	337.72	384.89	432.05	3413	12	267	214783.3	2429.3	2915.1	3158	2501.6	3030.1	3382.4	5355.5
70-914	O	28	0.688	35.99	131.1	57.3	65.25	73.2	20	0.472	8	1835.1	546.2	655.4	710	562.4	681.2	760.5	1204.1
		711.2	17.462	914.2	7047.3	279.79	318.58	357.38	3413	12	203	250602.7	2429.5	2915.4	3158.3	2501.8	3030.3	3382.7	5356
71-1116	O	40	0.394	43.94	131.2	38.25	43.41	48.57	20	0.472	3.9	2623.7	546.6	655.9	710.6	562.9	681.8	761.1	1205
		1016	10	1116	7052.9	186.75	211.95	237.15	3413	12	100	358288.5	2431.4	2917.7	3160.8	2503.8	3032.8	3385.4	5360.2
71-1198	O	38	0.472	47.17	131.3	41.73	47.6	53.47	20	0.472	9.2	2494.7	547.1	656.5	711.2	563.4	682.4	761.7	1206.1
		965.2	12	1198.2	7059	203.73	232.41	261.08	3413	12	233	340669.3	2433.5	2920.2	3163.6	2506	3035.4	3388.3	5364.9
71-1265	O	38	0.5	49.81	131.3	42.32	48.38	54.44	20	0.472	11.8	2494.9	547.1	656.6	711.3	563.4	682.5	761.8	1206.2
		965.2	12.7	1265.2	7059.7	206.63	236.21	265.79	3413	12	300	340703.4	2433.8	2920.5	3163.9	2506.2	3035.7	3388.7	5365.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
71-1351	O	44	0.394	53.17	131.5	35.94	41.01	46.08	20	0.472	9.2	2893.3	548	657.6	712.4	564.3	683.5	763	1208.1
		1117.6	10	1350.6	7070.7	175.45	200.23	225	3413	12	233	395109.6	2437.5	2925	3168.8	2510.1	3040.4	3393.9	5373.7
71-993	O	32	0.562	39.09	131.7	49.3	56.05	62.81	20	0.472	7.1	2107.7	548.9	658.7	713.6	565.2	684.6	764.3	1210.1
		812.8	14.288	992.8	7082.5	240.68	273.68	306.67	3413	12	180	287831.4	2441.6	2929.9	3174.1	2514.3	3045.5	3399.6	5382.7
71-855	O	24.5	0.875	33.67	132	67.43	76.77	86.12	20	0.472	9.2	1616.9	550	659.9	714.9	566.3	686	765.7	1212.4
		622.3	22.225	855.3	7096.2	329.2	374.84	420.49	3413	12	233	220798	2446.3	2935.6	3180.2	2519.1	3051.4	3406.2	5393.1
71-840	O	26	0.75	33.09	132.1	62.13	70.59	79.06	20	0.472	7.1	1717	550.3	660.4	715.4	566.7	686.4	766.3	1213.2
		660.4	19.05	840.4	7101	303.32	344.67	386.03	3413	12	180	234474.3	2448	2937.6	3182.4	2520.8	3053.4	3408.5	5396.7
71-1167	O	42	0.375	45.94	132.1	36.62	41.56	46.5	20	0.472	3.9	2774.6	550.5	660.6	715.7	566.9	686.7	766.5	1213.7
		1066.8	9.525	1166.8	7103.5	178.8	202.92	227.04	3413	12	100	378903	2448.9	2938.6	3183.5	2521.8	3054.5	3409.7	5398.7
71-1118	O	34	0.562	44.02	132.5	47.46	54.14	60.82	20	0.472	10	2251.9	551.9	662.3	717.5	568.4	688.4	768.5	1216.8
		863.6	14.288	1118.1	7121.6	231.71	264.34	296.97	3413	12	254.5	307511	2455.1	2946.1	3191.6	2528.2	3062.3	3418.4	5412.4
71-710	O	24	0.75	27.94	132.6	66.93	75.9	84.86	20	0.472	3.9	1591.6	552.7	663.2	718.4	569.1	689.3	769.5	1218.4
		609.6	19.05	709.6	7131	326.79	370.55	414.32	3413	12	100	217352	2458.3	2950	3195.8	2531.5	3066.3	3422.9	5419.5
71-1316	O	40	0.472	51.81	132.7	40.54	46.34	52.15	20	0.472	11.8	2654.2	553	663.5	718.8	569.4	689.7	769.9	1219
		1016	12	1316	7134.9	197.93	226.27	254.62	3413	12	300	362450.6	2459.7	2951.6	3197.5	2532.9	3068	3424.7	5422.5
71-978	O	28	0.75	38.51	132.7	58.83	67.09	75.36	20	0.472	10.5	1858.4	553.1	663.7	719	569.6	689.9	770.1	1219.3
		711.2	19.05	978.2	7136.7	287.24	327.58	367.93	3413	12	267	253779.4	2460.3	2952.3	3198.4	2533.5	3068.8	3425.6	5423.9
71-862	O	30	0.562	33.94	132.9	52.44	59.49	66.53	20	0.472	3.9	1993.2	553.7	664.4	719.8	570.1	690.6	770.9	1220.6
		762	14.288	862	7144.1	256.03	290.44	324.85	3413	12	100	272189.1	2462.8	2955.4	3201.7	2536.1	3072	3429.2	5429.5
71-864	O	24	0.938	34.02	133	69.89	79.6	89.31	20	0.472	10	1595.6	554	664.8	720.2	570.5	691	771.4	1221.4
		609.6	23.812	864.1	7148.6	341.25	388.65	436.05	3413	12	254.5	217890.3	2464.4	2957.3	3203.7	2537.8	3073.9	3431.3	5433
71-1519	O	48	0.375	59.81	133	33.72	38.57	43.43	20	0.472	11.8	3191.7	554.1	664.9	720.3	570.6	691.2	771.5	1221.6
		1219.2	9.525	1519.2	7149.9	164.62	188.32	212.03	3413	12	300	435855.7	2464.8	2957.8	3204.3	2538.2	3074.4	3431.9	5433.9
72-813	O	24	0.875	31.99	133	69.14	78.67	88.19	20	0.472	8	1596.1	554.2	665.1	720.5	570.7	691.3	771.7	1221.8
		609.6	22.225	812.6	7151.2	337.59	384.09	430.59	3413	12	203	217968.3	2465.3	2958.3	3204.9	2538.7	3075	3432.6	5434.9
72-1219	O	40	0.438	47.99	133	39.83	45.4	50.97	20	0.472	8	2660.4	554.3	665.1	720.5	570.8	691.3	771.7	1221.9
		1016	11.112	1219	7151.7	194.49	221.67	248.85	3413	12	203	363306.8	2465.5	2958.6	3205.1	2538.9	3075.2	3432.8	5435.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
72-1117	O	36	0.5	43.99	133.1	44.49	50.69	56.89	20	0.472	8	2396.7	554.8	665.7	721.2	571.3	692	772.5	1223.1
		914.4	12.7	1117.4	7158.5	217.2	247.48	277.76	3413	12	203	327285.7	2467.8	2961.4	3208.1	2541.3	3078.1	3436.1	5440.4
72-877	O	32	0.5	34.52	133.4	48.84	55.37	61.89	20	0.472	2.5	2134	555.7	666.9	722.4	572.3	693.2	773.8	1225.1
		812.8	12.7	876.8	7170.5	238.48	270.33	302.19	3413	12	64	291410.8	2472	2966.3	3213.5	2545.5	3083.3	3441.9	5449.6
72-910	O	24	1	35.81	133.7	71.05	81	90.95	20	0.472	11.8	1604.1	557	668.4	724.1	573.6	694.7	775.5	1227.9
		609.6	25.4	909.6	7186.8	346.89	395.46	444.04	3413	12	300	219052.3	2477.5	2973.1	3220.8	2551.3	3090.3	3449.6	5461.9
72-978	O	36	0.438	38.52	133.8	43.26	49.05	54.83	20	0.472	2.5	2407.6	557.3	668.8	724.5	573.9	695.1	776	1228.6
		914.4	11.112	978.4	7191.1	211.22	239.46	267.7	3413	12	64	328775.6	2479	2974.8	3222.7	2552.8	3092.2	3451.7	5465.2
72-1080	O	32	0.625	42.51	133.8	51.3	58.53	65.77	20	0.472	10.5	2140.6	557.4	668.9	724.7	574	695.3	776.2	1228.9
		812.8	15.875	1079.8	7192.9	250.45	285.78	321.11	3413	12	267	292318	2479.7	2975.6	3223.5	2553.5	3092.9	3452.6	5466.6
72-1334	O	42	0.438	52.51	134.2	38.74	44.25	49.76	20	0.472	10.5	2819.1	559.4	671.2	727.2	576	697.7	778.8	1233.1
		1066.8	11.112	1333.8	7217.4	189.15	216.05	242.95	3413	12	267	384977.5	2488.1	2985.7	3234.6	2562.2	3103.5	3464.4	5485.2
72-942	O	30	0.625	37.09	134.3	53.82	61.18	68.54	20	0.472	7.1	2013.9	559.4	671.3	727.2	576.1	697.8	778.9	1233.3
		762	15.875	942	7218.2	262.8	298.71	334.63	3413	12	180	275013.8	2488.4	2986.1	3234.9	2562.5	3103.8	3464.7	5485.8
72-1029	O	30	0.688	40.51	134.4	55.2	62.97	70.73	20	0.472	10.5	2015.3	559.8	671.8	727.7	576.5	698.2	779.4	1234.1
		762	17.462	1029	7223.1	269.53	307.44	345.35	3413	12	267	275201.2	2490.1	2988.1	3237.1	2564.2	3105.9	3467.1	5489.6
72-966	O	28	0.75	38.02	134.5	59.34	67.63	75.92	20	0.472	10	1882.4	560.3	672.3	728.3	576.9	698.8	780.1	1235.1
		711.2	19.05	965.7	7229	289.75	330.21	370.67	3413	12	254.5	257064.3	2492.1	2990.5	3239.8	2566.3	3108.5	3469.9	5494.1
72-891	O	28	0.688	35.09	134.5	58.12	66.04	73.97	20	0.472	7.1	1882.5	560.3	672.3	728.3	576.9	698.8	780.1	1235.1
		711.2	17.462	891.2	7229.2	283.74	322.45	361.16	3413	12	180	257070.2	2492.2	2990.6	3239.8	2566.4	3108.6	3470	5494.2
72-1321	O	44	0.394	51.99	134.5	36.49	41.6	46.7	20	0.472	8	2959.1	560.4	672.5	728.6	577.1	699	780.3	1235.5
		1117.6	10	1320.6	7231.3	178.17	203.09	228.01	3413	12	203	404085.3	2492.9	2991.5	3240.8	2567.1	3109.5	3471	5495.8
72-1168	O	38	0.472	45.99	134.7	42.51	48.43	54.36	20	0.472	8	2558.7	561.1	673.4	729.5	577.8	699.9	781.3	1237
		965.2	12	1168.2	7240.3	207.54	236.47	265.4	3413	12	203	349417.9	2496	2995.2	3244.8	2570.3	3113.3	3475.4	5502.6
72-1232	O	38	0.5	48.51	134.8	43.13	49.25	55.36	20	0.472	10.5	2561.7	561.8	674.1	730.3	578.5	700.7	782.2	1238.5
		965.2	12.7	1232.2	7248.8	210.6	240.45	270.29	3413	12	267	349828	2498.9	2998.7	3248.6	2573.3	3117	3479.4	5509.1
73-1097	O	34	0.562	43.17	135.1	48.16	54.9	61.63	20	0.472	9.2	2296	562.7	675.3	731.6	579.5	701.9	783.5	1240.6
		863.6	14.288	1096.6	7261.2	235.14	268.03	300.93	3413	12	233	313540	2503.2	3003.9	3254.2	2577.7	3122.3	3485.4	5518.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
73-928	O	34	0.472	36.52	135.2	46.42	52.62	58.82	20	0.472	2.5	2298	563.2	675.9	732.2	580	702.5	784.2	1241.7
		863.6	12	927.6	7267.6	226.65	256.92	287.18	3413	12	64	313815.2	2505.4	3006.5	3257	2580	3125.1	3488.5	5523.4
73-811	O	28	0.625	31.94	135.2	57.49	65.2	72.91	20	0.472	3.9	1892.8	563.3	676	732.4	580.1	702.7	784.4	1241.9
		711.2	15.875	811.2	7269	280.71	318.35	355.99	3413	12	100	258485	2505.9	3007.1	3257.7	2580.5	3125.7	3489.1	5524.4
73-1067	O	32	0.625	42.02	135.4	51.67	58.92	66.16	20	0.472	10	2165.7	564	676.8	733.2	580.8	703.5	785.3	1243.3
		812.8	15.875	1067.3	7277.1	252.29	287.66	323.04	3413	12	254.5	295741.6	2508.7	3010.4	3261.3	2583.4	3129.2	3493	5530.6
73-1321	O	42	0.438	52.02	135.5	38.93	44.43	49.93	20	0.472	10	2845.8	564.6	677.6	734	581.5	704.3	786.2	1244.8
		1066.8	11.112	1321.3	7285.7	190.05	216.91	243.77	3413	12	254.5	388619.5	2511.7	3014	3265.2	2586.4	3132.9	3497.1	5537.1
73-1080	O	40	0.394	42.52	135.6	39.27	44.52	49.78	20	0.472	2.5	2711.1	564.8	677.8	734.3	581.6	704.5	786.4	1245.2
		1016	10	1080	7288	191.76	217.39	243.02	3413	12	64	370231.5	2512.5	3014.9	3266.2	2587.2	3133.8	3498.3	5538.9
73-1196	O	40	0.438	47.09	135.6	40.1	45.61	51.12	20	0.472	7.1	2711.6	564.9	677.9	734.4	581.7	704.6	786.6	1245.4
		1016	11.112	1196	7289.2	195.8	222.69	249.58	3413	12	180	370293.5	2512.9	3015.4	3266.7	2587.7	3134.4	3498.8	5539.8
73-1486	O	48	0.375	58.51	135.9	34.2	39.07	43.95	20	0.472	10.5	3262.6	566.4	679.7	736.3	583.3	706.5	788.7	1248.7
		1219.2	9.525	1486.2	7308.6	166.98	190.77	214.57	3413	12	267	445533.6	2519.6	3023.5	3275.4	2594.6	3142.7	3508.1	5554.6
73-1094	O	36	0.5	43.09	135.9	44.88	51.03	57.18	20	0.472	7.1	2447	566.4	679.7	736.4	583.3	706.5	788.7	1248.8
		914.4	12.7	1094.4	7308.9	219.11	249.14	279.17	3413	12	180	334163.9	2519.7	3023.6	3275.6	2594.7	3142.8	3508.3	5554.8
73-1017	O	30	0.688	40.02	136	55.65	63.43	71.21	20	0.472	10	2040	566.7	680	736.7	583.5	706.8	789	1249.3
		762	17.462	1016.5	7312	271.69	309.69	347.68	3413	12	254.5	278585.3	2520.7	3024.8	3276.9	2595.7	3144.1	3509.7	5557.1
73-1283	O	40	0.472	50.51	136.1	41.27	47.12	52.98	20	0.472	10.5	2722.4	567.2	680.6	737.3	584.1	707.5	789.7	1250.4
		1016	12	1283	7318.4	201.51	230.08	258.66	3413	12	267	371773.2	2522.9	3027.5	3279.8	2598	3146.9	3512.8	5562
73-1220	O	38	0.5	48.02	136.2	43.38	49.49	55.6	20	0.472	10	2588	567.5	681	737.8	584.4	707.9	790.2	1251.2
		965.2	12.7	1219.7	7323.1	211.8	241.63	271.46	3413	12	254.5	353413.1	2524.6	3029.5	3281.9	2599.7	3148.9	3515.1	5565.6
73-1131	O	42	0.375	44.52	136.3	37.55	42.57	47.59	20	0.472	2.5	2863	568.1	681.7	738.5	585	708.5	790.9	1252.3
		1066.8	9.525	1130.8	7329.7	183.33	207.83	232.34	3413	12	64	390965.7	2526.8	3032.2	3284.9	2602	3151.8	3518.3	5570.6
73-843	O	24	0.938	33.17	136.4	71.38	81.24	91.09	20	0.472	9.2	1636.3	568.2	681.8	738.6	585.1	708.7	791.1	1252.5
		609.6	23.812	842.6	7331	348.5	396.63	444.75	3413	12	233	223450	2527.3	3032.7	3285.5	2602.5	3152.3	3518.9	5571.6
74-825	O	24.5	0.875	32.49	136.8	69.46	79.01	88.56	20	0.472	8	1675.6	569.9	683.9	740.9	586.9	710.9	793.6	1256.5
		622.3	22.225	825.3	7354.1	339.14	385.77	432.4	3413	12	203	228824.1	2535.3	3042.3	3295.8	2610.7	3162.3	3530	5589.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
74-1298	O	44	0.394	51.09	136.9	36.68	41.72	46.76	20	0.472	7.1	3011.5	570.4	684.4	741.5	587.3	711.4	794.1	1257.4
		1117.6	10	1297.6	7359.5	179.09	203.7	228.31	3413	12	180	411247.7	2537.1	3044.5	3298.2	2612.6	3164.6	3532.5	5593.2
74-790	O	24	0.875	31.09	136.9	70.4	79.95	89.5	20	0.472	7.1	1642.6	570.4	684.4	741.5	587.3	711.4	794.2	1257.4
		609.6	22.225	789.6	7359.5	343.74	390.37	437	3413	12	180	224317.4	2537.1	3044.5	3298.2	2612.6	3164.6	3532.6	5593.2
74-1474	O	48	0.375	58.02	137.1	34.33	39.19	44.05	20	0.472	10	3290.2	571.2	685.5	742.6	588.2	712.5	795.4	1259.3
		1219.2	9.525	1473.7	7370.6	167.6	191.33	215.06	3413	12	254.5	449312.6	2540.9	3049.1	3303.2	2616.6	3169.4	3537.9	5601.7
74-1214	O	36	0.562	47.81	137.1	46.63	53.26	59.89	20	0.472	11.8	2467.9	571.3	685.5	742.7	588.3	712.6	795.4	1259.4
		914.4	14.288	1214.4	7371.4	227.68	260.05	292.42	3413	12	300	337019.1	2541.2	3049.4	3303.5	2616.8	3169.7	3538.3	5602.2
74-1065	O	38	0.438	41.94	137.1	42.13	47.79	53.46	20	0.472	3.9	2605.8	571.5	685.7	742.9	588.5	712.8	795.7	1259.8
		965.2	11.112	1065.2	7373.6	205.7	233.35	261.01	3413	12	100	355847.7	2541.9	3050.3	3304.5	2617.6	3170.6	3539.3	5603.9
74-1145	O	38	0.472	45.09	137.4	42.84	48.71	54.58	20	0.472	7.1	2610.1	572.4	686.9	744.1	589.4	714	797	1261.9
		965.2	12	1145.2	7385.7	209.17	237.83	266.5	3413	12	180	356435.6	2546.1	3055.4	3310	2621.9	3175.9	3545.2	5613.2
74-964	O	34	0.5	37.94	137.4	47.43	53.8	60.17	20	0.472	3.9	2335.5	572.4	686.9	744.2	589.5	714	797	1262
		863.6	12.7	963.6	7386.1	231.57	262.66	293.76	3413	12	100	318933.2	2546.3	3055.5	3310.2	2622.1	3176	3545.3	5613.5
74-1271	O	40	0.472	50.02	137.5	41.49	47.34	53.18	20	0.472	10	2749.2	572.8	687.3	744.6	589.8	714.4	797.5	1262.7
		1016	12	1270.5	7390.4	202.57	231.12	259.66	3413	12	254.5	375430.9	2547.7	3057.3	3312.1	2623.6	3177.9	3547.4	5616.7
74-944	O	28	0.75	37.17	137.5	60.43	68.82	77.2	20	0.472	9.2	1925.3	573	687.6	744.9	590.1	714.7	797.8	1263.2
		711.2	19.05	944.2	7393.6	295.05	336	376.95	3413	12	233	262917.8	2548.9	3058.6	3313.5	2624.7	3179.3	3548.9	5619.2
74-1300	O	42	0.438	51.17	137.8	39.38	44.9	50.43	20	0.472	9.2	2892.9	574	688.8	746.2	591.1	715.9	799.2	1265.4
		1066.8	11.112	1299.8	7406.2	192.26	219.24	246.23	3413	12	233	395047.7	2553.2	3063.8	3319.2	2629.2	3184.7	3555	5628.7
74-1046	O	32	0.625	41.17	138.1	52.5	59.81	67.12	20	0.472	9.2	2210.2	575.6	690.7	748.2	592.7	717.9	801.4	1268.9
		812.8	15.875	1045.8	7426.7	256.3	292.02	327.73	3413	12	233	301821.6	2560.3	3072.3	3328.3	2636.5	3193.5	3564.8	5644.3
74-1011	O	28	0.812	39.81	138.2	61.56	70.22	78.88	20	0.472	11.8	1934.4	575.7	690.9	748.4	592.9	718.1	801.6	1269.2
		711.2	20.638	1011.2	7428.7	300.58	342.84	385.1	3413	12	300	264165.3	2561	3073.2	3329.2	2637.2	3194.4	3565.8	5645.8
74-1167	O	42	0.394	45.94	138.5	38.34	43.5	48.66	20	0.472	3.9	2909.1	577.2	692.6	750.4	594.4	720	803.7	1272.5
		1066.8	10	1166.8	7447.8	187.21	212.38	237.56	3413	12	100	397265.2	2567.5	3081	3337.8	2644	3202.6	3574.9	5660.3
75-1198	O	38	0.5	47.17	138.7	43.95	50.1	56.25	20	0.472	9.2	2634.4	577.7	693.3	751	594.9	720.6	804.4	1273.6
		965.2	12.7	1198.2	7454.5	214.57	244.6	274.63	3413	12	233	359754.6	2569.9	3083.8	3340.8	2646.4	3205.4	3578.2	5665.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
75-826	O	30	0.562	32.52	138.7	54.4	61.65	68.89	20	0.472	2.5	2080.1	577.8	693.4	751.1	595	720.7	804.5	1273.8
		762	14.288	826	7455.4	265.6	300.98	336.35	3413	12	64	284052.1	2570.2	3084.2	3341.2	2646.7	3205.8	3578.6	5666.1
75-877	O	24	1	34.51	138.7	73.27	83.44	93.62	20	0.472	10.5	1664.5	577.9	693.5	751.3	595.1	720.9	804.7	1274.1
		609.6	25.4	876.6	7457.3	357.74	407.41	457.08	3413	12	267	227298.7	2570.8	3085	3342.1	2647.3	3206.6	3579.5	5667.6
75-1418	O	44	0.438	55.81	138.8	38.34	43.82	49.3	20	0.472	11.8	3054.1	578.4	694.1	752	595.6	721.5	805.4	1275.2
		1117.6	11.112	1417.6	7463.5	187.19	213.94	240.68	3413	12	300	417062.6	2573	3087.6	3344.9	2649.6	3209.3	3582.5	5672.3
75-1067	O	34	0.562	41.99	138.9	49.19	56.01	62.83	20	0.472	8	2360.6	578.6	694.3	752.1	595.8	721.7	805.6	1275.5
		863.6	14.288	1066.6	7465.5	240.18	273.48	306.78	3413	12	203	322358.9	2573.6	3088.4	3345.7	2650.2	3210.2	3583.4	5673.8
75-1014	O	36	0.472	39.94	138.9	45.14	51.2	57.26	20	0.472	3.9	2500.3	578.8	694.5	752.4	596	721.9	805.9	1275.9
		914.4	12	1014.4	7467.9	220.41	250	279.59	3413	12	100	341433.4	2574.5	3089.4	3346.8	2651.1	3211.2	3584.6	5675.6
75-995	O	30	0.688	39.17	138.9	56.6	64.46	72.33	20	0.472	9.2	2084.1	578.9	694.7	752.6	596.2	722.1	806.1	1276.3
		762	17.462	995	7469.9	276.33	314.74	353.14	3413	12	233	284605	2575.2	3090.2	3347.7	2651.8	3212.1	3585.6	5677.2
75-1452	O	48	0.375	57.17	139.1	34.66	39.54	44.41	20	0.472	9.2	3339	579.7	695.6	753.6	596.9	723.1	807.1	1277.9
		1219.2	9.525	1452.2	7479.7	169.24	193.04	216.84	3413	12	233	455964.7	2578.5	3094.3	3352.1	2655.3	3216.3	3590.3	5684.6
75-1218	O	44	0.375	47.94	139.1	36.7	41.63	46.57	20	0.472	3.9	3060.8	579.7	695.6	753.6	597	723.1	807.2	1278
		1117.6	9.525	1217.6	7480	179.18	203.27	227.37	3413	12	100	417983.7	2578.6	3094.4	3352.2	2655.4	3216.4	3590.4	5684.8
75-1519	O	48	0.394	59.81	139.5	35.23	40.28	45.32	20	0.472	11.8	3346.9	581.1	697.3	755.4	598.4	724.8	809.1	1281
		1219.2	10	1519.2	7497.6	172.02	196.65	221.28	3413	12	300	457055.7	2584.7	3101.7	3360.1	2661.7	3224	3598.9	5698.2
75-674	O	24	0.75	26.52	139.7	70.11	79.42	88.73	20	0.472	2.5	1676.7	582.2	698.6	756.8	599.5	726.2	810.6	1283.5
		609.6	19.05	673.6	7512.1	342.3	387.76	433.21	3413	12	64	228968.2	2589.7	3107.6	3366.6	2666.8	3230.2	3605.8	5709.2
75-1570	O	50	0.375	61.81	139.8	33.87	38.72	43.58	20	0.472	11.8	3494.1	582.3	698.8	757.1	599.7	726.4	810.8	1283.8
		1270	9.525	1570	7514.1	165.38	189.07	212.77	3413	12	300	477147.8	2590.4	3108.5	3367.5	2667.5	3231.1	3606.8	5710.7
75-1249	O	40	0.472	49.17	139.8	42	47.88	53.76	20	0.472	9.2	2796.5	582.6	699.1	757.4	600	726.7	811.2	1284.4
		1016	12	1249	7517.6	205.08	233.79	262.5	3413	12	233	381893.5	2591.6	3109.9	3369.1	2668.7	3232.6	3608.4	5713.4
75-1316	O	40	0.5	51.81	140.2	42.67	48.74	54.81	20	0.472	11.8	2803.2	584	700.8	759.2	601.4	728.4	813.1	1287.5
		1016	12.7	1316	7535.4	208.33	237.97	267.62	3413	12	300	382797.9	2597.7	3117.3	3377.1	2675.1	3240.2	3617	5726.9
76-1164	O	34	0.625	45.81	140.6	50.74	57.92	65.1	20	0.472	11.8	2390.9	586	703.2	761.8	603.5	730.9	815.9	1291.9
		863.6	15.875	1163.6	7561.4	247.75	282.8	317.84	3413	12	300	326503.1	2606.7	3128.1	3388.7	2684.3	3251.4	3629.5	5746.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
76-802	O	24.5	0.875	31.59	140.7	70.71	80.29	89.86	20	0.472	7.1	1723.7	586.3	703.5	762.2	603.7	731.3	816.3	1292.5
		622.3	22.225	802.3	7565	345.24	392	438.75	3413	12	180	235383.9	2607.9	3129.5	3390.3	2685.6	3252.9	3631.2	5749.4
76-864	O	24	1	34.02	140.7	74.05	84.28	94.51	20	0.472	10	1688.6	586.3	703.6	762.2	603.8	731.3	816.3	1292.5
		609.6	25.4	864.1	7565.2	361.56	411.5	461.43	3413	12	254.5	230586.7	2608	3129.6	3390.4	2685.6	3253	3631.3	5749.5
76-1181	O	36	0.562	46.51	140.9	47.6	54.3	61.01	20	0.472	10.5	2536.9	587.2	704.7	763.4	604.7	732.5	817.7	1294.6
		914.4	14.288	1181.4	7577.3	232.41	265.13	297.86	3413	12	267	346433	2612.2	3134.6	3395.8	2689.9	3258.2	3637.1	5758.7
76-1270	O	42	0.438	49.99	141	40.04	45.61	51.17	20	0.472	8	2961.2	587.5	705.1	763.8	605	732.9	818.1	1295.3
		1066.8	11.112	1269.8	7581.2	195.48	222.67	249.86	3413	12	203	404381	2613.5	3136.2	3397.6	2691.3	3259.9	3639	5761.7
76-1367	O	42	0.472	53.81	141.1	40.83	46.65	52.46	20	0.472	11.8	2963.3	588	705.6	764.4	605.5	733.4	818.7	1296.2
		1066.8	12	1366.8	7586.6	199.37	227.76	256.15	3413	12	300	404671.5	2615.4	3138.5	3400	2693.3	3262.3	3641.6	5765.8
76-1062	O	30	0.75	41.81	141.1	58.24	66.44	74.64	20	0.472	11.8	2116.8	588	705.6	764.4	605.5	733.4	818.7	1296.3
		762	19.05	1062	7587	284.37	324.39	364.4	3413	12	300	289064	2615.5	3138.6	3400.2	2693.4	3262.4	3641.8	5766.1
76-813	O	24	0.938	31.99	141.4	73.59	83.67	93.75	20	0.472	8	1696.7	589.1	707	765.9	606.7	734.8	820.3	1298.8
		609.6	23.812	812.6	7601.7	359.31	408.53	457.74	3413	12	203	231699.5	2620.6	3144.7	3406.8	2698.6	3268.7	3648.8	5777.3
76-775	O	28	0.625	30.52	141.5	59.82	67.77	75.72	20	0.472	2.5	1980.7	589.5	707.4	766.4	607.1	735.3	820.8	1299.6
		711.2	15.875	775.2	7606.5	292.05	330.88	369.7	3413	12	64	270488.9	2622.3	3146.7	3408.9	2700.3	3270.8	3651.1	5781
76-1044	O	34	0.562	41.09	141.9	49.71	56.49	63.27	20	0.472	7.1	2412.6	591.3	709.6	768.7	608.9	737.6	823.3	1303.6
		863.6	14.288	1043.6	7630	242.69	275.79	308.9	3413	12	180	329463.4	2630.4	3156.4	3419.5	2708.6	3280.9	3662.4	5798.8
76-1029	O	38	0.438	40.52	141.9	43.34	49.12	54.89	20	0.472	2.5	2697	591.4	709.7	768.9	609	737.7	823.5	1303.9
		965.2	11.112	1029.2	7631.5	211.62	239.82	268.01	3413	12	64	368294.8	2630.9	3157	3420.1	2709.2	3281.5	3663.1	5799.9
76-1113	O	32	0.688	43.81	142	54.62	62.33	70.03	20	0.472	11.8	2271.4	591.5	709.8	769	609.1	737.8	823.6	1304
		812.8	17.462	1112.8	7632.4	266.7	304.3	341.9	3413	12	300	310179.7	2631.2	3157.4	3420.5	2709.5	3281.9	3663.5	5800.6
76-914	O	28	0.75	35.99	142	62.04	70.58	79.11	20	0.472	8	1988.5	591.8	710.2	769.4	609.4	738.2	824	1304.7
		711.2	19.05	914.2	7636.3	302.9	344.58	386.27	3413	12	203	271545.6	2632.5	3159	3422.3	2710.9	3283.6	3665.4	5803.6
76-1422	O	48	0.375	55.99	142.1	35.15	40.05	44.95	20	0.472	8	3409.4	591.9	710.3	769.5	609.5	738.3	824.2	1304.9
		1219.2	9.525	1422.2	7637.5	171.63	195.54	219.45	3413	12	203	465582.9	2632.9	3159.5	3422.8	2711.3	3284.1	3666	5804.5
76-1385	O	44	0.438	54.51	142.1	38.97	44.48	49.99	20	0.472	10.5	3126.9	592.2	710.7	769.9	609.8	738.7	824.6	1305.6
		1117.6	11.112	1384.6	7641.4	190.25	217.17	244.09	3413	12	267	427002.7	2634.3	3161.1	3424.6	2712.7	3285.8	3667.9	5807.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
76-1168	O	38	0.5	45.99	142.2	44.78	50.99	57.21	20	0.472	8	2702.1	592.6	711.1	770.3	610.2	739.1	825.1	1306.3
		965.2	12.7	1168.2	7645.9	218.65	248.98	279.3	3413	12	203	368993.3	2635.8	3163	3426.6	2714.3	3287.8	3670.1	5810.9
76-1016	O	32	0.625	39.99	142.2	53.71	61.13	68.54	20	0.472	8	2275.5	592.6	711.1	770.3	610.2	739.1	825.1	1306.4
		812.8	15.875	1015.8	7646	262.23	298.45	334.66	3413	12	203	310735.4	2635.9	3163.1	3426.6	2714.3	3287.8	3670.1	5811
77-1169	O	36	0.562	46.02	142.4	47.9	54.61	61.32	20	0.472	10	2564	593.5	712.2	771.6	611.2	740.3	826.4	1308.5
		914.4	14.288	1168.9	7658.3	233.89	266.63	299.37	3413	12	254.5	350137.7	2640.1	3168.1	3432.1	2718.7	3293.1	3676	5820.3
77-1486	O	48	0.394	58.51	142.6	35.75	40.82	45.88	20	0.472	10.5	3421.3	594	712.8	772.2	611.7	740.9	827	1309.5
		1219.2	10	1486.2	7664.1	174.54	199.28	224.02	3413	12	267	467204.3	2642.1	3170.5	3434.7	2720.8	3295.6	3678.8	5824.7
77-710	O	24	0.812	27.94	142.6	72.08	81.69	91.3	20	0.472	3.9	1710.7	594	712.8	772.2	611.7	740.9	827.1	1309.5
		609.6	20.638	709.6	7664.5	351.94	398.85	445.76	3413	12	100	233614.7	2642.3	3170.7	3434.9	2720.9	3295.7	3679	5825
77-928	O	34	0.5	36.52	142.7	48.98	55.5	62.02	20	0.472	2.5	2426.1	594.6	713.6	773	612.3	741.7	828	1310.9
		863.6	12.7	927.6	7672.8	239.14	270.97	302.8	3413	12	64	331310.9	2645.1	3174.1	3438.6	2723.8	3299.3	3682.9	5831.3
77-1537	O	50	0.375	60.51	142.8	34.34	39.21	44.08	20	0.472	10.5	3569.1	594.9	713.8	773.3	612.6	742	828.2	1311.4
		1270	9.525	1537	7675.5	167.67	191.45	215.24	3413	12	267	487392.3	2646	3175.2	3439.8	2724.8	3300.5	3684.2	5833.4
77-978	O	28	0.812	38.51	142.8	63.24	72.05	80.86	20	0.472	10.5	1999.7	595.1	714.2	773.7	612.9	742.3	828.7	1312.1
		711.2	20.638	978.2	7679.3	308.74	351.77	394.8	3413	12	267	273077.1	2647.4	3176.8	3441.6	2726.2	3302.1	3686.1	5836.3
77-1131	O	42	0.394	44.52	142.9	39.33	44.57	49.81	20	0.472	2.5	3001.7	595.6	714.7	774.3	613.3	742.9	829.3	1313
		1066.8	10	1130.8	7684.9	192.01	217.6	243.18	3413	12	64	409912.5	2649.3	3179.1	3444.1	2728.1	3304.5	3688.8	5840.5
77-965	O	30	0.688	37.99	143.3	58	65.99	73.99	20	0.472	8	2148.9	596.9	716.3	776	614.7	744.6	831.1	1316
		762	17.462	965	7702.2	283.19	322.21	361.23	3413	12	203	293452.8	2655.2	3186.3	3451.8	2734.3	3311.9	3697	5853.7
77-1219	O	40	0.472	47.99	143.3	42.76	48.69	54.62	20	0.472	8	2865.4	597	716.3	776	614.7	744.6	831.2	1316
		1016	12	1219	7702.6	208.75	237.71	266.67	3413	12	203	391292	2655.4	3186.4	3452	2734.4	3312.1	3697.2	5854
77-913	O	32	0.562	35.94	143.3	52.73	59.79	66.85	20	0.472	3.9	2292.5	597	716.4	776.1	614.8	744.7	831.2	1316.1
		812.8	14.288	912.8	7703.2	257.47	291.93	326.38	3413	12	100	313057.6	2655.6	3186.7	3452.3	2734.6	3312.4	3697.5	5854.4
77-1182	O	44	0.375	46.52	143.4	37.59	42.6	47.61	20	0.472	2.5	3154.1	597.4	716.8	776.6	615.1	745.1	831.7	1316.9
		1117.6	9.525	1181.6	7707.9	183.52	207.98	232.45	3413	12	64	430718.5	2657.2	3188.7	3454.4	2736.3	3314.4	3699.8	5858
77-1372	O	44	0.438	54.02	143.4	39.15	44.65	50.16	20	0.472	10	3155.4	597.6	717.1	776.9	615.4	745.4	832.1	1317.5
		1117.6	11.112	1372.1	7711	191.13	218.01	244.89	3413	12	254.5	430892.8	2658.3	3189.9	3455.8	2737.4	3315.7	3701.3	5860.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
77-1247	O	42	0.438	49.09	143.6	40.3	45.81	51.32	20	0.472	7.1	3015.8	598.4	718.1	777.9	616.2	746.4	833.2	1319.2
		1066.8	11.112	1246.8	7721	196.76	223.67	250.58	3413	12	180	411840.7	2661.7	3194.1	3460.3	2741	3320.1	3706.1	5868
77-1474	O	48	0.394	58.02	143.8	35.89	40.95	46	20	0.472	10	3450.3	599	718.8	778.7	616.8	747.2	834	1320.6
		1219.2	10	1473.7	7729.1	175.23	199.91	224.6	3413	12	254.5	471167.1	2664.5	3197.4	3463.9	2743.8	3323.5	3710	5874.1
77-1283	O	40	0.5	50.51	143.8	43.46	49.58	55.71	20	0.472	10.5	2875.3	599	718.8	778.7	616.8	747.2	834	1320.6
		1016	12.7	1283	7729.2	212.18	242.09	271.99	3413	12	267	392643.8	2664.6	3197.5	3463.9	2743.9	3323.6	3710	5874.2
77-1525	O	50	0.375	60.02	143.9	34.47	39.32	44.18	20	0.472	10	3598.4	599.7	719.7	779.6	617.6	748.1	835	1322.1
		1270	9.525	1524.5	7738.4	168.28	192	215.72	3413	12	254.5	491388.7	2667.7	3201.3	3468	2747.1	3327.5	3714.4	5881.2
77-978	O	36	0.472	38.52	144	46.53	52.72	58.91	20	0.472	2.5	2592.3	600.1	720.1	780.1	617.9	748.5	835.5	1322.9
		914.4	12	978.4	7742.7	227.17	257.4	287.64	3413	12	64	353996.3	2669.2	3203	3470	2748.7	3329.4	3716.5	5884.5
78-843	O	24	1	33.17	144.3	75.65	86.03	96.42	20	0.472	9.2	1731.6	601.3	721.5	781.6	619.2	750	837.2	1325.5
		609.6	25.4	842.6	7758.2	369.33	420.06	470.79	3413	12	233	236470.4	2674.6	3209.5	3476.9	2754.2	3336	3723.9	5896.2
78-1399	O	48	0.375	55.09	144.4	35.31	40.14	44.98	20	0.472	7.1	3465.4	601.6	722	782.1	619.5	750.4	837.7	1326.4
		1219.2	9.525	1399.2	7763.1	172.38	195.99	219.6	3413	12	180	473236.1	2676.2	3211.5	3479.1	2755.9	3338.1	3726.3	5899.9
78-1334	O	42	0.472	52.51	144.6	41.55	47.41	53.27	20	0.472	10.5	3036.7	602.5	723	783.3	620.4	751.5	838.9	1328.3
		1066.8	12	1333.8	7774.3	202.85	231.46	260.08	3413	12	267	414683.6	2680.1	3216.1	3484.1	2759.9	3343	3731.7	5908.5
78-966	O	28	0.812	38.02	144.7	63.81	72.65	81.49	20	0.472	10	2025.6	602.9	723.4	783.7	620.8	752	839.4	1329
		711.2	20.638	965.7	7778.7	311.52	354.71	397.89	3413	12	254.5	276611.8	2681.6	3217.9	3486.1	2761.5	3344.9	3733.8	5911.8
78-1131	O	34	0.625	44.51	144.7	51.87	59.14	66.42	20	0.472	10.5	2460.7	603.1	723.7	784.1	621.1	752.3	839.8	1329.6
		863.6	15.875	1130.6	7782.1	253.27	288.77	324.27	3413	12	267	336033.1	2682.8	3219.4	3487.6	2762.7	3346.3	3735.4	5914.4
78-1145	O	38	0.5	45.09	145.1	45.16	51.33	57.49	20	0.472	7.1	2756.4	604.5	725.4	785.8	622.5	754	841.6	1332.6
		965.2	12.7	1145.2	7799.5	220.51	250.59	280.68	3413	12	180	376404.1	2688.8	3226.5	3495.4	2768.8	3353.8	3743.8	5927.6
78-1147	O	36	0.562	45.17	145.1	48.58	55.34	62.1	20	0.472	9.2	2612.1	604.6	725.6	786	622.6	754.2	841.9	1333
		914.4	14.288	1147.4	7801.8	237.2	270.2	303.2	3413	12	233	356698.6	2689.6	3227.5	3496.5	2769.6	3354.8	3744.9	5929.4
78-1271	O	40	0.5	50.02	145.2	43.7	49.82	55.94	20	0.472	10	2903.6	604.9	725.9	786.4	622.9	754.5	842.3	1333.6
		1016	12.7	1270.5	7805.3	213.35	243.24	273.13	3413	12	254.5	396506.9	2690.8	3228.9	3498	2770.9	3356.3	3746.5	5932
78-1116	O	40	0.438	43.94	145.3	42.26	47.92	53.58	20	0.472	3.9	2906	605.4	726.5	787	623.4	755.1	843	1334.7
		1016	11.112	1116	7811.8	206.32	233.96	261.6	3413	12	100	396837.8	2693	3231.6	3500.9	2773.2	3359.1	3749.6	5936.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
78-790	O	24	0.938	31.09	145.5	74.98	85.1	95.23	20	0.472	7.1	1746.1	606.3	727.6	788.2	624.3	756.2	844.2	1336.6
		609.6	23.812	789.6	7823.1	366.1	415.52	464.94	3413	12	180	238448.6	2696.9	3236.3	3506	2777.2	3363.9	3755.1	5945.6
78-993	O	32	0.625	39.09	145.5	54.35	61.74	69.13	20	0.472	7.1	2328.2	606.3	727.6	788.2	624.3	756.3	844.2	1336.6
		812.8	15.875	992.8	7823.2	265.37	301.46	337.54	3413	12	180	317934.1	2696.9	3236.3	3506	2777.2	3364	3755.1	5945.6
78-1029	O	30	0.75	40.51	145.6	59.73	68.06	76.39	20	0.472	10.5	2184.7	606.8	728.2	788.9	624.9	756.9	845	1337.8
		762	19.05	1029	7830.3	291.61	332.29	372.96	3413	12	267	298334.3	2699.4	3239.3	3509.2	2779.8	3367	3758.5	5951
78-891	O	28	0.75	35.09	145.7	62.97	71.51	80.04	20	0.472	7.1	2039.8	607.1	728.5	789.2	625.2	757.2	845.3	1338.4
		711.2	19.05	891.2	7833.3	307.46	349.13	390.8	3413	12	180	278553.6	2700.5	3240.5	3510.6	2780.8	3368.3	3760	5953.3
78-1351	O	44	0.438	53.17	145.7	39.58	45.12	50.65	20	0.472	9.2	3205.6	607.1	728.5	789.3	625.2	757.3	845.3	1338.4
		1117.6	11.112	1350.6	7833.8	193.27	220.27	247.28	3413	12	233	437752.1	2700.6	3240.7	3510.8	2781	3368.5	3760.2	5953.7
78-1218	O	44	0.394	47.94	145.9	38.43	43.58	48.73	20	0.472	3.9	3209.4	607.8	729.4	790.2	625.9	758.2	846.3	1340
		1117.6	10	1217.6	7843	187.63	212.78	237.94	3413	12	100	438267.9	2703.8	3244.5	3514.9	2784.3	3372.5	3764.6	5960.7
78-1452	O	48	0.394	57.17	145.9	36.25	41.32	46.39	20	0.472	9.2	3501.4	607.9	729.5	790.2	626	758.2	846.4	1340.1
		1219.2	10	1452.2	7843.6	176.98	201.75	226.52	3413	12	233	478142.8	2704	3244.8	3515.2	2784.5	3372.7	3764.9	5961.1
78-1321	O	42	0.472	52.02	146	41.76	47.61	53.47	20	0.472	10	3065.4	608.2	729.9	790.7	626.3	758.6	846.9	1340.9
		1066.8	12	1321.3	7847.9	203.89	232.47	261.06	3413	12	254.5	418606.7	2705.5	3246.6	3517.1	2786	3374.6	3767	5964.4
78-760	O	26	0.75	29.94	146	67.6	76.61	85.62	20	0.472	3.9	1897.7	608.2	729.9	790.7	626.3	758.7	846.9	1340.9
		660.4	19.05	760.4	7848.1	330.07	374.05	418.03	3413	12	100	259142.8	2705.5	3246.6	3517.2	2786.1	3374.7	3767.1	5964.5
78-1503	O	50	0.375	59.17	146	34.79	39.66	44.54	20	0.472	9.2	3649.8	608.3	730	790.8	626.4	758.8	847	1341.1
		1270	9.525	1503	7849.1	169.87	193.66	217.45	3413	12	233	498417.8	2705.9	3247.1	3517.6	2786.4	3375.1	3767.6	5965.3
79-1196	O	40	0.472	47.09	146	43.08	48.96	54.84	20	0.472	7.1	2920.5	608.4	730.1	791	626.5	758.9	847.2	1341.3
		1016	12	1196	7850.7	210.34	239.04	267.75	3413	12	180	398816.9	2706.4	3247.7	3518.4	2787	3375.8	3768.3	5966.6
79-1080	O	32	0.688	42.51	146.3	55.93	63.74	71.56	20	0.472	10.5	2340.8	609.6	731.5	792.5	627.7	760.4	848.8	1343.9
		812.8	17.462	1079.8	7865.6	273.06	311.21	349.37	3413	12	267	319659.2	2711.6	3253.9	3525.1	2792.3	3382.2	3775.5	5977.9
79-1118	O	34	0.625	44.02	146.4	52.24	59.52	66.8	20	0.472	10	2488.2	609.9	731.8	792.8	628	760.7	849.1	1344.5
		863.6	15.875	1118.1	7869.1	255.06	290.6	326.15	3413	12	254.5	339789.8	2712.8	3255.3	3526.6	2793.5	3383.7	3777.2	5980.6
79-1621	O	52	0.375	63.81	146.6	34.02	38.87	43.72	20	0.472	11.8	3810.5	610.7	732.8	793.8	628.8	761.7	850.3	1346.2
		1320.8	9.525	1620.8	7879.4	166.08	189.77	213.46	3413	12	300	520354.8	2716.3	3259.6	3531.2	2797.2	3388.1	3782.1	5988.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
79-1570	O	50	0.394	61.81	146.6	35.4	40.44	45.49	20	0.472	11.8	3664.2	610.7	732.8	793.9	628.9	761.7	850.3	1346.3
		1270	10	1570	7880	172.84	197.47	222.1	3413	12	300	500379	2716.5	3259.8	3531.5	2797.4	3388.4	3782.4	5988.8
79-1014	O	36	0.5	39.94	146.7	47.62	53.99	60.37	20	0.472	3.9	2640	611.1	733.3	794.4	629.3	762.3	850.9	1347.2
		914.4	12.7	1014.4	7885.3	232.52	263.62	294.73	3413	12	100	360517.5	2718.4	3262	3533.9	2799.3	3390.7	3785	5992.9
79-862	O	30	0.625	33.94	146.7	57.89	65.61	73.34	20	0.472	3.9	2200.8	611.3	733.6	794.7	629.5	762.5	851.2	1347.7
		762	15.875	862	7888.1	282.63	320.36	358.08	3413	12	100	300537.1	2719.3	3263.2	3535.1	2800.3	3391.9	3786.3	5995
79-942	O	30	0.688	37.09	146.8	58.79	66.76	74.74	20	0.472	7.1	2201.4	611.5	733.8	794.9	629.7	762.7	851.4	1348.1
		762	17.462	942	7890.2	287.02	325.97	364.91	3413	12	180	300617.8	2720.1	3264.1	3536.1	2801	3392.8	3787.3	5996.6
79-1265	O	38	0.562	49.81	147	47.08	53.73	60.38	20	0.472	11.8	2792.9	612.5	735	796.2	630.7	764	852.8	1350.3
		965.2	14.288	1265.2	7903	229.86	262.34	294.82	3413	12	300	381396.6	2724.4	3269.3	3541.8	2805.5	3398.3	3793.4	6006.2
79-1017	O	30	0.75	40.02	147.4	60.23	68.58	76.93	20	0.472	10	2211.5	614.3	737.2	798.6	632.6	766.2	855.3	1354.3
		762	19.05	1016.5	7926.6	294.05	334.84	375.62	3413	12	254.5	302003	2732.6	3279.1	3552.4	2813.9	3408.4	3804.8	6024.2
79-1249	O	40	0.5	49.17	147.7	44.25	50.41	56.57	20	0.472	9.2	2953.5	615.3	738.4	799.9	633.6	767.5	856.7	1356.5
		1016	12.7	1249	7939.6	216.04	246.12	276.2	3413	12	233	403332.3	2737.1	3284.5	3558.2	2818.6	3414	3811	6034.1
79-1065	O	38	0.472	41.94	147.7	45.3	51.36	57.42	20	0.472	3.9	2806.2	615.4	738.5	800	633.7	767.6	856.8	1356.7
		965.2	12	1065.2	7940.4	221.19	250.78	280.37	3413	12	100	383205	2737.4	3284.8	3558.6	2818.9	3414.4	3811.4	6034.7
79-811	O	28	0.688	31.94	147.7	62.85	71.23	79.61	20	0.472	3.9	2068.1	615.5	738.6	800.2	633.8	767.7	857	1357
		711.2	17.462	811.2	7942.1	306.88	347.79	388.71	3413	12	100	282422.3	2738	3285.5	3559.3	2819.5	3415.1	3812.2	6036
79-1011	O	28	0.875	39.81	147.8	65.8	74.99	84.18	20	0.472	11.8	2069.2	615.8	739	800.6	634.2	768.2	857.5	1357.7
		711.2	22.225	1011.2	7946.3	321.28	366.13	410.98	3413	12	300	282570.2	2739.4	3287.3	3561.2	2820.9	3416.9	3814.2	6039.2
80-944	O	28	0.812	37.17	148	64.99	73.95	82.91	20	0.472	9.2	2071.7	616.6	739.9	801.6	634.9	769.1	858.5	1359.3
		711.2	20.638	944.2	7955.9	317.32	361.06	404.79	3413	12	233	282910.4	2742.7	3291.2	3565.5	2824.3	3421	3818.8	6046.5
80-1067	O	32	0.688	42.02	148	56.36	64.19	72.02	20	0.472	10	2368.2	616.7	740.1	801.7	635.1	769.3	858.7	1359.6
		812.8	17.462	1067.3	7957.8	275.16	313.4	351.63	3413	12	254.5	323403	2743.3	3292	3566.3	2825	3421.8	3819.7	6047.9
80-1300	O	42	0.472	51.17	148.4	42.26	48.14	54.03	20	0.472	9.2	3116.1	618.3	741.9	803.8	636.7	771.2	860.9	1363
		1066.8	12	1299.8	7977.7	206.32	235.06	263.81	3413	12	233	425530.9	2750.2	3300.3	3575.3	2832.1	3430.4	3829.3	6063.1
80-1473	O	50	0.375	57.99	149	35.27	40.16	45.06	20	0.472	8	3724.2	620.7	744.8	806.9	639.2	774.2	864.2	1368.4
		1270	9.525	1473	8009	172.19	196.09	219.99	3413	12	203	508568.9	2761	3313.2	3589.3	2843.2	3443.9	3844.3	6086.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
80-1422	O	48	0.394	55.99	149	36.77	41.87	46.97	20	0.472	8	3575.2	620.7	744.8	806.9	639.2	774.2	864.2	1368.4
		1219.2	10	1422.2	8009	179.54	204.44	229.34	3413	12	203	488228.8	2761	3313.2	3589.3	2843.2	3443.9	3844.3	6086.8
80-1117	O	36	0.562	43.99	149	49.58	56.42	63.26	20	0.472	8	2682.2	620.9	745	807.1	639.4	774.4	864.5	1368.8
		914.4	14.288	1117.4	8011.3	242.08	275.46	308.85	3413	12	203	366275.3	2761.8	3314.1	3590.3	2844	3444.8	3845.4	6088.6
80-1321	O	44	0.438	51.99	149	40.22	45.79	51.36	20	0.472	8	3278.4	620.9	745.1	807.2	639.4	774.5	864.5	1368.8
		1117.6	11.112	1320.6	8011.7	196.4	223.59	250.79	3413	12	203	447696.5	2762	3314.3	3590.5	2844.2	3445.1	3845.6	6088.9
80-1367	O	42	0.5	53.81	149	42.99	49.08	55.16	20	0.472	11.8	3130	621	745.2	807.3	639.5	774.6	864.7	1369.1
		1066.8	12.7	1366.8	8013.3	209.9	239.61	269.32	3413	12	300	427432	2762.5	3315	3591.3	2844.7	3445.7	3846.4	6090.1
80-877	O	32	0.562	34.52	149.2	54.59	61.84	69.08	20	0.472	2.5	2386.6	621.5	745.8	808	640	775.2	865.4	1370.2
		812.8	14.288	876.8	8019.5	266.55	301.91	337.28	3413	12	64	325911.3	2764.6	3317.5	3594	2846.9	3448.4	3849.3	6094.8
80-1097	O	34	0.625	43.17	149.2	53.03	60.38	67.73	20	0.472	9.2	2537	621.8	746.2	808.4	640.3	775.6	865.8	1370.8
		863.6	15.875	1096.6	8023.4	258.94	294.81	330.68	3413	12	233	346451.8	2766	3319.2	3595.8	2848.3	3450.1	3851.2	6097.8
80-1418	O	44	0.472	55.81	149.6	41.11	46.93	52.76	20	0.472	11.8	3290.1	623.1	747.8	810.1	641.7	777.2	867.6	1373.7
		1117.6	12	1417.6	8040.4	200.71	229.14	257.58	3413	12	300	449296	2771.8	3326.2	3603.4	2854.3	3457.4	3859.4	6110.7
80-1588	O	52	0.375	62.51	149.6	34.47	39.34	44.21	20	0.472	10.5	3889.7	623.3	748	810.3	641.9	777.5	867.9	1374.2
		1320.8	9.525	1587.8	8043.1	168.32	192.09	215.87	3413	12	267	531169.5	2772.8	3327.3	3604.6	2855.3	3458.6	3860.7	6112.8
80-813	O	24	1	31.99	149.6	78.02	88.65	99.28	20	0.472	8	1795.6	623.5	748.2	810.5	642	777.7	868.1	1374.5
		609.6	25.4	812.6	8044.6	380.91	432.82	484.74	3413	12	203	245200.6	2773.3	3327.9	3605.3	2855.8	3459.2	3861.4	6113.9
80-1537	O	50	0.394	60.51	149.7	35.9	40.97	46.04	20	0.472	10.5	3742.9	623.8	748.6	811	642.4	778.1	868.6	1375.2
		1270	10	1537	8049.2	175.29	200.03	224.77	3413	12	267	511122.3	2774.9	3329.8	3607.3	2857.5	3461.1	3863.6	6117.4
81-1080	O	40	0.438	42.52	150.1	43.42	49.18	54.95	20	0.472	2.5	3002.8	625.6	750.7	813.3	644.2	780.3	871.1	1379.2
		1016	11.112	1080	8072.2	211.98	240.14	268.3	3413	12	64	410065.7	2782.8	3339.3	3617.6	2865.6	3471	3874.6	6134.8
81-674	O	24	0.812	26.52	150.2	75.54	85.52	95.51	20	0.472	2.5	1802.2	625.7	750.9	813.5	644.4	780.5	871.3	1379.5
		609.6	20.638	673.6	8074.1	368.8	417.57	466.34	3413	12	64	246100.1	2783.5	3340.2	3618.5	2866.3	3471.9	3875.6	6136.4
81-1182	O	44	0.394	46.52	150.3	39.37	44.61	49.84	20	0.472	2.5	3307.2	626.4	751.6	814.3	645	781.3	872.1	1380.8
		1117.6	10	1181.6	8082	192.23	217.78	243.33	3413	12	64	451620.7	2786.2	3343.4	3622	2869.1	3475.2	3879.3	6142.3
81-995	O	30	0.75	39.17	150.6	61.28	69.73	78.18	20	0.472	9.2	2259.3	627.6	753.1	815.9	646.3	782.8	873.8	1383.6
		762	19.05	995	8097.9	299.17	340.43	381.69	3413	12	233	308528.6	2791.6	3350	3629.1	2874.7	3482.1	3887	6154.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
81-1575	O	52	0.375	62.02	150.8	34.6	39.45	44.31	20	0.472	10	3920.5	628.3	753.9	816.8	647	783.7	874.8	1385.1
		1320.8	9.525	1575.3	8107	168.91	192.63	216.34	3413	12	254.5	535384.4	2794.8	3353.7	3633.2	2878	3486	3891.3	6161.3
81-1232	O	38	0.562	48.51	150.9	48.02	54.74	61.47	20	0.472	10.5	2867.7	628.9	754.7	817.5	647.6	784.4	875.6	1386.4
		965.2	14.288	1232.2	8114.6	234.45	267.27	300.1	3413	12	267	391610.9	2797.4	3356.9	3636.6	2880.7	3489.3	3895	6167.1
81-1525	O	50	0.394	60.02	150.9	36.04	41.1	46.15	20	0.472	10	3773.6	628.9	754.7	817.6	647.6	784.5	875.7	1386.5
		1270	10	1524.5	8115.2	175.96	200.65	225.33	3413	12	254.5	515313.2	2797.6	3357.1	3636.9	2880.9	3489.5	3895.3	6167.5
81-1046	O	32	0.688	41.17	151.1	57.28	65.19	73.1	20	0.472	9.2	2416.9	629.4	755.3	818.2	648.1	785.1	876.4	1387.6
		812.8	17.462	1045.8	8121.3	279.65	318.28	356.91	3413	12	233	330051.6	2799.7	3359.7	3639.7	2883.1	3492.2	3898.2	6172.2
81-1219	O	40	0.5	47.99	151.3	45.06	51.28	57.49	20	0.472	8	3026.2	630.5	756.6	819.6	649.2	786.4	877.8	1389.9
		1016	12.7	1219	8135	219.98	250.35	280.71	3413	12	203	413258.4	2804.4	3365.3	3645.8	2887.9	3498.1	3904.8	6182.6
81-1450	O	50	0.375	57.09	151.3	35.42	40.25	45.09	20	0.472	7.1	3783.2	630.5	756.6	819.7	649.3	786.5	877.9	1390.1
		1270	9.525	1450	8136	172.92	196.53	220.14	3413	12	180	516635.9	2804.8	3365.7	3646.2	2888.3	3498.5	3905.3	6183.4
81-1399	O	48	0.394	55.09	151.4	36.95	41.99	47.03	20	0.472	7.1	3634	630.9	757.1	820.2	649.7	786.9	878.4	1390.9
		1219.2	10	1399.2	8140.7	180.41	205.03	229.64	3413	12	180	496254.3	2806.4	3367.7	3648.3	2889.9	3500.5	3907.5	6186.9
81-1214	O	36	0.625	47.81	151.5	51.3	58.52	65.73	20	0.472	11.8	2727.8	631.4	757.7	820.9	650.2	787.6	879.2	1392.1
		914.4	15.875	1214.4	8147.6	250.49	285.71	320.92	3413	12	300	372509.9	2808.8	3370.6	3651.4	2892.4	3503.5	3910.9	6192.2
82-1298	O	44	0.438	51.09	151.7	40.48	46	51.51	20	0.472	7.1	3336.5	631.9	758.3	821.5	650.7	788.2	879.9	1393.1
		1117.6	11.112	1297.6	8153.8	197.64	224.57	251.5	3413	12	180	455631.9	2810.9	3373.1	3654.2	2894.6	3506.1	3913.8	6196.9
82-1270	O	42	0.472	49.99	151.9	42.99	48.92	54.86	20	0.472	8	3189.7	632.9	759.5	822.7	651.7	789.4	881.2	1395.2
		1066.8	12	1269.8	8166.2	209.87	238.86	267.84	3413	12	203	435584.3	2815.2	3378.2	3659.7	2899	3511.5	3919.8	6206.3
82-1062	O	30	0.812	41.81	151.9	62.61	71.35	80.09	20	0.472	11.8	2278.8	633	759.6	822.9	651.8	789.5	881.4	1395.5
		762	20.638	1062	8167.6	305.68	348.35	391.03	3413	12	300	311186.4	2815.7	3378.8	3660.4	2899.5	3512.1	3920.5	6207.4
82-978	O	36	0.5	38.52	152.1	49.1	55.61	62.13	20	0.472	2.5	2737.2	633.6	760.3	823.7	652.5	790.3	882.2	1396.8
		914.4	12.7	978.4	8175.5	239.73	271.53	303.34	3413	12	64	373782.7	2818.4	3382.1	3663.9	2902.3	3515.5	3924.2	6213.4
82-1094	O	36	0.562	43.09	152.1	50.08	56.88	63.68	20	0.472	7.1	2738.5	633.9	760.7	824.1	652.8	790.7	882.7	1397.5
		914.4	14.288	1094.4	8179.6	244.51	277.71	310.92	3413	12	180	373973	2819.8	3383.8	3665.8	2903.8	3517.2	3926.2	6216.5
82-710	O	24	0.875	27.94	152.3	77.21	87.46	97.7	20	0.472	3.9	1827.8	634.7	761.6	825.1	653.6	791.6	883.7	1399.2
		609.6	22.225	709.6	8189.2	376.96	426.99	477.03	3413	12	100	249606.8	2823.1	3387.7	3670.1	2907.2	3521.4	3930.8	6223.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
82-1220	O	38	0.562	48.02	152.5	48.31	55.04	61.77	20	0.472	10	2897.1	635.3	762.4	825.9	654.2	792.5	884.6	1400.6
		965.2	14.288	1219.7	8197.8	235.89	268.73	301.58	3413	12	254.5	395624.3	2826.1	3391.3	3673.9	2910.2	3525	3934.9	6230.3
82-1334	O	42	0.5	52.51	152.7	43.76	49.89	56.03	20	0.472	10.5	3207.5	636.4	763.7	827.3	655.3	793.8	886.1	1403
		1066.8	12.7	1333.8	8211.6	213.64	243.6	273.56	3413	12	267	438007.2	2830.9	3397	3680.1	2915.1	3531	3941.6	6240.8
82-978	O	28	0.875	38.51	152.8	67.62	76.98	86.34	20	0.472	10.5	2139	636.6	763.9	827.6	655.6	794.1	886.4	1403.5
		711.2	22.225	978.2	8214.4	330.14	375.85	421.55	3413	12	267	292102.8	2831.8	3398.2	3681.3	2916.1	3532.2	3942.9	6242.9
82-914	O	28	0.812	35.99	152.8	66.75	75.88	85	20	0.472	8	2139.7	636.8	764.2	827.9	655.8	794.3	886.7	1403.9
		711.2	20.638	914.2	8216.9	325.91	370.47	415.03	3413	12	203	292194.3	2832.7	3399.2	3682.5	2917	3533.3	3944.1	6244.9
82-1029	O	38	0.472	40.52	152.9	46.63	52.81	59	20	0.472	2.5	2904.3	636.9	764.3	828	655.9	794.4	886.8	1404.1
		965.2	12	1029.2	8218.2	227.65	257.85	288.05	3413	12	64	396609	2833.1	3399.7	3683	2917.5	3533.8	3944.7	6245.8
82-1554	O	52	0.375	61.17	152.9	34.91	39.78	44.65	20	0.472	9.2	3974.8	637	764.4	828.1	655.9	794.5	886.9	1404.3
		1320.8	9.525	1553.8	8219.1	170.46	194.24	218.02	3413	12	233	542792.5	2833.5	3400.1	3683.5	2917.8	3534.2	3945.2	6246.6
82-1503	O	50	0.394	59.17	153.1	36.39	41.46	46.53	20	0.472	9.2	3827.5	637.9	765.5	829.3	656.9	795.7	888.2	1406.3
		1270	10	1503	8231.3	177.67	202.43	227.2	3413	12	233	522684.6	2837.6	3405.1	3688.9	2922.1	3539.4	3951	6255.8
82-826	O	30	0.625	32.52	153.1	60.08	68.04	75.99	20	0.472	2.5	2296.7	638	765.6	829.4	657	795.8	888.3	1406.5
		762	15.875	826	8231.9	293.35	332.2	371.04	3413	12	64	313635.6	2837.9	3405.4	3689.2	2922.3	3539.7	3951.3	6256.2
82-1385	O	44	0.472	54.51	153.1	41.8	47.67	53.54	20	0.472	10.5	3368.5	638	765.6	829.4	657	795.8	888.3	1406.5
		1117.6	12	1384.6	8232	204.1	232.74	261.39	3413	12	267	460004.3	2837.9	3405.5	3689.2	2922.4	3539.8	3951.4	6256.3
82-1319	O	48	0.375	51.94	153.1	36.84	41.76	46.69	20	0.472	3.9	3675.6	638.1	765.7	829.6	657.1	795.9	888.5	1406.8
		1219.2	9.525	1319.2	8233.8	179.85	203.9	227.95	3413	12	100	501934.5	2838.5	3406.2	3690.1	2923	3540.5	3952.2	6257.7
82-724	O	26	0.75	28.52	153.2	70.59	79.92	89.25	20	0.472	2.5	1992	638.5	766.1	830	657.5	796.4	889	1407.5
		660.4	19.05	724.4	8238.1	344.65	390.22	435.78	3413	12	64	272021.3	2840	3408	3692	2924.5	3542.4	3954.3	6260.9
82-1672	O	54	0.375	65.81	153.4	34.15	39	43.85	20	0.472	11.8	4140.9	639	766.8	830.7	658.1	797.1	889.8	1408.8
		1371.6	9.525	1671.6	8245.5	166.75	190.43	214.11	3413	12	300	565479.2	2842.6	3411.1	3695.3	2927.2	3545.6	3957.9	6266.6
82-1067	O	34	0.625	41.99	153.4	54.21	61.65	69.1	20	0.472	8	2608.4	639.3	767.2	831.1	658.3	797.4	890.1	1409.4
		863.6	15.875	1066.6	8249.1	264.65	301.01	337.37	3413	12	203	356196.3	2843.8	3412.5	3696.9	2928.4	3547.1	3959.6	6269.3
83-1167	O	42	0.438	45.94	153.5	42.37	48.03	53.69	20	0.472	3.9	3222.6	639.4	767.3	831.2	658.4	797.6	890.3	1409.6
		1066.8	11.112	1166.8	8250.4	206.88	234.51	262.15	3413	12	100	440078	2844.2	3413.1	3697.5	2928.9	3547.7	3960.2	6270.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
83-1621	O	52	0.394	63.81	153.7	35.56	40.6	45.65	20	0.472	11.8	3996.2	640.4	768.5	832.5	659.5	798.8	891.7	1411.8
		1320.8	10	1620.8	8263.4	173.61	198.24	222.86	3413	12	300	545713.8	2848.7	3418.4	3703.3	2933.5	3553.3	3966.4	6280.2
83-964	O	34	0.562	37.94	153.7	53	60.06	67.13	20	0.472	3.9	2612.9	640.4	768.5	832.5	659.5	798.8	891.7	1411.9
		863.6	14.288	963.6	8263.5	258.76	293.25	327.75	3413	12	100	356816.1	2848.7	3418.5	3703.3	2933.5	3553.3	3966.5	6280.2
83-1164	O	34	0.688	45.81	153.9	55.32	63.07	70.82	20	0.472	11.8	2615.5	641	769.3	833.4	660.1	799.6	892.6	1413.2
		863.6	17.462	1163.6	8271.6	270.1	307.94	345.78	3413	12	300	357166.6	2851.5	3421.8	3707	2936.4	3556.8	3970.4	6286.4
83-1113	O	32	0.75	43.81	154	59.1	67.36	75.62	20	0.472	11.8	2463.3	641.5	769.8	833.9	660.6	800.1	893.2	1414.2
		812.8	19.05	1112.8	8277.2	288.55	328.88	369.21	3413	12	300	336386.6	2853.5	3424.2	3709.5	2938.4	3559.2	3973.1	6290.7
83-790	O	24	1	31.09	154	79.54	90.23	100.92	20	0.472	7.1	1847.9	641.6	769.9	834.1	660.7	800.3	893.4	1414.5
		609.6	25.4	789.6	8279	388.32	440.52	492.72	3413	12	180	252343	2854.1	3424.9	3710.3	2939	3560	3973.9	6292
83-1321	O	42	0.5	52.02	154.2	43.99	50.12	56.26	20	0.472	10	3237.8	642.4	770.9	835.1	661.5	801.3	894.5	1416.3
		1066.8	12.7	1321.3	8289.3	214.78	244.73	274.67	3413	12	254.5	442150.9	2857.6	3429.2	3714.9	2942.7	3564.4	3978.9	6299.9
83-1196	O	40	0.5	47.09	154.2	45.42	51.6	57.77	20	0.472	7.1	3084.4	642.6	771.1	835.4	661.7	801.5	894.7	1416.6
		1016	12.7	1196	8291.5	221.78	251.92	282.06	3413	12	180	421205.7	2858.4	3430	3715.9	2943.5	3565.3	3979.9	6301.5
83-1372	O	44	0.472	54.02	154.5	42.01	47.87	53.73	20	0.472	10	3399.2	643.8	772.6	836.9	663	803	896.4	1419.3
		1117.6	12	1372.1	8307	205.1	233.73	262.35	3413	12	254.5	464195	2863.7	3436.5	3722.9	2949	3572	3987.4	6313.3
83-1519	O	48	0.438	59.81	154.5	38.78	44.27	49.75	20	0.472	11.8	3709.1	643.9	772.7	837.1	663.1	803.2	896.6	1419.6
		1219.2	11.112	1519.2	8308.9	189.33	216.12	242.91	3413	12	300	506510.7	2864.4	3437.3	3723.7	2949.7	3572.8	3988.3	6314.8
83-775	O	28	0.688	30.52	154.6	65.43	74.08	82.73	20	0.472	2.5	2164.2	644.1	772.9	837.3	663.3	803.4	896.8	1420
		711.2	17.462	775.2	8311	319.44	361.69	403.93	3413	12	64	295537.9	2865.1	3438.1	3724.6	2950.4	3573.7	3989.3	6316.3
83-1247	O	42	0.472	49.09	154.7	43.3	49.19	55.08	20	0.472	7.1	3248.6	644.6	773.5	837.9	663.7	804	897.5	1421
		1066.8	12	1246.8	8316.8	211.41	240.16	268.9	3413	12	180	443619.7	2867.1	3440.5	3727.3	2952.5	3576.2	3992.1	6320.8
83-966	O	28	0.875	38.02	154.8	68.24	77.64	87.04	20	0.472	10	2166.7	644.9	773.8	838.3	664.1	804.3	897.9	1421.6
		711.2	22.225	965.7	8320.7	333.2	379.09	424.99	3413	12	254.5	295883.8	2868.5	3442.1	3729	2953.8	3577.9	3993.9	6323.7
83-1198	O	38	0.562	47.17	155.2	48.97	55.75	62.53	20	0.472	9.2	2949.1	646.7	776.1	840.7	666	806.7	900.5	1425.8
		965.2	14.288	1198.2	8344.9	239.1	272.19	305.29	3413	12	233	402723.3	2876.8	3452.1	3739.8	2962.4	3588.3	4005.5	6342.1
83-965	O	30	0.75	37.99	155.3	62.83	71.42	80.01	20	0.472	8	2329.5	647.1	776.5	841.2	666.4	807.1	901	1426.6
		762	19.05	965	8349.6	306.74	348.7	390.67	3413	12	203	318120.2	2878.4	3454.1	3742	2964.1	3590.3	4007.8	6345.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
84-1016	O	32	0.688	39.99	155.5	58.63	66.66	74.7	20	0.472	8	2488.3	648	777.6	842.4	667.3	808.3	902.2	1428.6
		812.8	17.462	1015.8	8361.2	286.26	325.48	364.7	3413	12	203	339799.2	2882.4	3458.9	3747.1	2968.2	3595.3	4013.4	6354.5
84-1181	O	36	0.625	46.51	155.8	52.4	59.7	67.01	20	0.472	10.5	2804	649.1	778.9	843.8	668.4	809.6	903.8	1430.9
		914.4	15.875	1181.4	8375.2	255.85	291.5	327.16	3413	12	267	382915.2	2887.3	3464.7	3753.4	2973.2	3601.3	4020.1	6365.2
84-1524	O	52	0.375	59.99	155.9	35.38	40.27	45.16	20	0.472	8	4053	649.5	779.4	844.4	668.9	810.2	904.4	1431.9
		1320.8	9.525	1523.8	8381	172.72	196.6	220.48	3413	12	203	553478.8	2889.2	3467.1	3756	2975.2	3603.8	4022.9	6369.5
84-1065	O	38	0.5	41.94	156	47.8	54.17	60.55	20	0.472	3.9	2963.4	649.9	779.8	844.8	669.2	810.6	904.8	1432.7
		965.2	12.7	1065.2	8385.3	233.38	264.49	295.61	3413	12	100	404673.3	2890.7	3468.9	3757.9	2976.8	3605.7	4024.9	6372.8
84-1473	O	50	0.394	57.99	156.2	36.9	42	47.09	20	0.472	8	3905.5	650.9	781.1	846.2	670.3	811.9	906.3	1435
		1270	10	1473	8398.9	180.15	205.04	229.93	3413	12	203	533329.9	2895.4	3474.5	3764	2981.6	3611.5	4031.5	6383.2
84-722	O	24.5	0.875	28.44	156.3	77.43	87.69	97.96	20	0.472	3.9	1914.6	651.2	781.5	846.6	670.6	812.3	906.7	1435.7
		622.3	22.225	722.3	8402.8	378.04	428.16	478.28	3413	12	100	261454.4	2896.8	3476.1	3765.8	2983	3613.2	4033.4	6386.2
84-1639	O	54	0.375	64.51	156.5	34.6	39.47	44.33	20	0.472	10.5	4224.3	651.9	782.3	847.5	671.3	813.1	907.7	1437.2
		1371.6	9.525	1638.6	8411.6	168.93	192.69	216.46	3413	12	267	576867.4	2899.8	3479.8	3769.7	2986.1	3617	4037.6	6392.8
84-1116	O	40	0.472	43.94	156.5	45.45	51.51	57.57	20	0.472	3.9	3129.8	652	782.5	847.7	671.5	813.3	907.9	1437.5
		1016	12	1116	8413.5	221.89	251.49	281.08	3413	12	100	427405.9	2900.5	3480.5	3770.6	2986.8	3617.8	4038.5	6394.3
84-1300	O	42	0.5	51.17	156.7	44.52	50.7	56.87	20	0.472	9.2	3291.4	653	783.7	849	672.5	814.6	909.3	1439.7
		1066.8	12.7	1299.8	8426.4	217.39	247.52	277.65	3413	12	233	449464.5	2904.9	3485.9	3776.4	2991.4	3623.4	4044.7	6404.1
84-891	O	28	0.812	35.09	156.8	67.81	76.95	86.08	20	0.472	7.1	2194.9	653.2	783.9	849.2	672.7	814.8	909.6	1440.1
		711.2	20.638	891.2	8429	331.06	375.68	420.3	3413	12	180	299735.2	2905.8	3487	3777.5	2992.3	3624.5	4045.9	6406
84-1029	O	30	0.812	40.51	156.8	64.23	73.12	82.02	20	0.472	10.5	2351.9	653.3	783.9	849.3	672.7	814.9	909.6	1440.2
		762	20.638	1029	8429.6	313.6	357.02	400.44	3413	12	267	321166.2	2906	3487.2	3777.8	2992.5	3624.7	4046.2	6406.5
84-1044	O	34	0.625	41.09	156.8	54.83	62.25	69.67	20	0.472	7.1	2665.9	653.4	784.1	849.4	672.8	815	909.8	1440.5
		863.6	15.875	1043.6	8430.9	267.7	303.93	340.16	3413	12	180	364046.6	2906.5	3487.7	3778.4	2993	3625.3	4046.8	6407.5
84-1588	O	52	0.394	62.51	156.9	36.05	41.11	46.18	20	0.472	10.5	4079.2	653.7	784.5	849.8	673.2	815.4	910.2	1441.2
		1320.8	10	1587.8	8435.1	176	200.73	225.47	3413	12	267	557055.7	2907.9	3489.5	3780.3	2994.5	3627.1	4048.9	6410.7
84-1316	O	40	0.562	51.81	156.9	47.49	54.16	60.84	20	0.472	11.8	3138.8	653.9	784.7	850.1	673.4	815.6	910.5	1441.6
		1016	14.288	1316	8437.5	231.87	264.46	297.04	3413	12	300	428625.4	2908.7	3490.5	3781.3	2995.3	3628.1	4050	6412.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
84-1351	O	44	0.472	53.17	157	42.49	48.39	54.28	20	0.472	9.2	3453.3	654	784.8	850.3	673.5	815.8	910.7	1441.9
		1117.6	12	1350.6	8439.2	207.46	236.24	265.02	3413	12	233	471584.5	2909.3	3491.2	3782.1	2995.9	3628.9	4050.8	6413.8
85-1011	O	28	0.938	39.81	157.3	70.02	79.74	89.45	20	0.472	11.8	2202.1	655.4	786.5	852	674.9	817.5	912.5	1444.8
		711.2	23.812	1011.2	8456.5	341.88	389.31	436.73	3413	12	300	300714	2915.3	3498.3	3789.9	3002.1	3636.3	4059.1	6427
85-1169	O	36	0.625	46.02	157.4	52.76	60.07	67.38	20	0.472	10	2834	656	787.2	852.8	675.6	818.3	913.4	1446.2
		914.4	15.875	1168.9	8464.8	257.58	293.29	328.99	3413	12	254.5	387010	2918.1	3501.8	3793.6	3005	3639.9	4063.1	6433.2
85-1283	O	48	0.375	50.52	157.4	37.66	42.65	47.65	20	0.472	2.5	3778.7	656	787.2	852.8	675.6	818.3	913.4	1446.3
		1219.2	9.525	1283.2	8464.8	183.87	208.26	232.64	3413	12	64	516016.2	2918.1	3501.8	3793.6	3005	3639.9	4063.1	6433.3
85-1626	O	54	0.375	64.02	157.7	34.72	39.57	44.43	20	0.472	10	4256.8	656.9	788.3	854	676.5	819.4	914.7	1448.2
		1371.6	9.525	1626.1	8476.3	169.5	193.21	216.92	3413	12	254.5	581301.9	2922.1	3506.5	3798.7	3009.1	3644.8	4068.6	6442
85-1418	O	44	0.5	55.81	158	43.29	49.39	55.48	20	0.472	11.8	3475.5	658.2	789.9	855.7	677.8	821	916.5	1451.1
		1117.6	12.7	1417.6	8493.4	211.36	241.12	270.89	3413	12	300	474609.2	2928	3513.6	3806.4	3015.1	3652.1	4076.8	6455
85-1486	O	48	0.438	58.51	158	39.37	44.89	50.41	20	0.472	10.5	3791.5	658.2	789.9	855.7	677.8	821	916.5	1451.1
		1219.2	11.112	1486.2	8493.4	192.24	219.19	246.14	3413	12	267	517757.4	2928	3513.6	3806.4	3015.2	3652.2	4076.8	6455
85-1575	O	52	0.394	62.02	158.1	36.18	41.24	46.29	20	0.472	10	4111.6	658.9	790.7	856.6	678.5	821.9	917.4	1452.6
		1320.8	10	1575.3	8502.1	176.65	201.33	226.02	3413	12	254.5	561475.9	2931	3517.2	3810.3	3018.2	3655.9	4081	6461.6
85-913	O	32	0.625	35.94	158.3	58.23	65.98	73.72	20	0.472	3.9	2532.2	659.4	791.3	857.3	679.1	822.5	918.2	1453.8
		812.8	15.875	912.8	8508.8	284.33	322.14	359.94	3413	12	100	345798.6	2933.3	3520	3813.3	3020.6	3658.8	4084.2	6466.7
85-1501	O	52	0.375	59.09	158.3	35.52	40.36	45.19	20	0.472	7.1	4115.2	659.5	791.4	857.3	679.1	822.6	918.2	1453.9
		1320.8	9.525	1500.8	8509.4	173.43	197.03	220.64	3413	12	180	561961	2933.5	3520.2	3813.6	3020.8	3659	4084.5	6467.1
85-944	O	28	0.875	37.17	158.3	69.53	79.06	88.58	20	0.472	9.2	2216	659.5	791.4	857.4	679.2	822.7	918.3	1454
		711.2	22.225	944.2	8510.2	339.49	386	432.5	3413	12	233	302621.3	2933.8	3520.5	3813.9	3021.1	3659.4	4084.9	6467.7
85-1131	O	34	0.688	44.51	158.3	56.58	64.44	72.3	20	0.472	10.5	2691.8	659.8	791.7	857.7	679.4	822.9	918.6	1454.5
		863.6	17.462	1130.6	8513	276.27	314.65	353.02	3413	12	267	367591.5	2934.8	3521.7	3815.2	3022.1	3660.6	4086.2	6469.9
85-1131	O	42	0.438	44.52	158.3	43.48	49.24	55	20	0.472	2.5	3325.2	659.8	791.7	857.7	679.4	822.9	918.6	1454.5
		1066.8	11.112	1130.8	8513.1	212.3	240.43	268.56	3413	12	64	454088.3	2934.8	3521.7	3815.2	3022.1	3660.6	4086.3	6469.9
85-1080	O	32	0.75	42.51	158.7	60.54	68.93	77.32	20	0.472	10.5	2538.6	661.1	793.3	859.4	680.8	824.6	920.5	1457.4
		812.8	19.05	1079.8	8530.2	295.58	336.54	377.51	3413	12	267	346667	2940.7	3528.8	3822.9	3028.2	3668	4094.5	6482.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
85-1450	O	50	0.394	57.09	158.7	37.07	42.11	47.16	20	0.472	7.1	3967.4	661.2	793.5	859.6	680.9	824.8	920.7	1457.8
		1270	10	1450	8532.1	181	205.62	230.24	3413	12	180	541789.7	2941.3	3529.6	3823.7	3028.9	3668.8	4095.4	6484.4
85-1017	O	30	0.812	40.02	158.7	64.78	73.71	82.63	20	0.472	10	2380.8	661.3	793.6	859.7	681	824.9	920.8	1457.9
		762	20.638	1016.5	8533.2	316.3	359.87	403.44	3413	12	254.5	325115.6	2941.7	3530.1	3824.2	3029.3	3669.3	4095.9	6485.2
86-942	O	30	0.75	37.09	159.1	63.73	72.32	80.92	20	0.472	7.1	2386.4	662.9	795.5	861.8	682.6	826.8	923	1461.4
		762	19.05	942	8553.5	311.14	353.1	395.06	3413	12	180	325887.5	2948.7	3538.4	3833.3	3036.5	3678	4105.7	6500.6
86-993	O	32	0.688	39.09	159.1	59.39	67.41	75.43	20	0.472	7.1	2545.9	663	795.6	861.9	682.7	827	923.1	1461.6
		812.8	17.462	992.8	8554.9	289.96	329.12	368.27	3413	12	180	347671.2	2949.2	3539	3834	3037	3678.6	4106.4	6501.7
86-1168	O	38	0.562	45.99	159.2	49.94	56.79	63.65	20	0.472	8	3024.8	663.3	796	862.3	683.1	827.4	923.6	1462.4
		965.2	14.288	1168.2	8559.2	243.81	277.28	310.74	3413	12	203	413065.4	2950.7	3540.8	3835.9	3038.5	3680.4	4108.4	6505
86-1474	O	48	0.438	58.02	159.3	39.54	45.06	50.57	20	0.472	10	3823.6	663.8	796.6	863	683.6	828	924.3	1463.4
		1219.2	11.112	1473.7	8565.4	193.07	219.99	246.9	3413	12	254.5	522149	2952.8	3543.4	3838.7	3040.7	3683.1	4111.4	6509.7
86-928	O	34	0.562	36.52	159.7	54.76	62.01	69.25	20	0.472	2.5	2714.3	665.3	798.3	864.9	685.1	829.8	926.3	1466.6
		863.6	14.288	927.6	8584.2	267.39	302.75	338.11	3413	12	64	370664.1	2959.3	3551.1	3847.1	3047.4	3691.2	4120.4	6524
86-1605	O	54	0.375	63.17	159.8	35.03	39.89	44.76	20	0.472	9.2	4313.8	665.7	798.9	865.4	685.5	830.4	926.9	1467.6
		1371.6	9.525	1604.6	8589.8	171.01	194.78	218.55	3413	12	233	589090.7	2961.2	3553.5	3849.6	3049.4	3693.6	4123.1	6528.3
86-811	O	28	0.75	31.94	160.1	68.19	77.24	86.28	20	0.472	3.9	2241	667	800.3	867	686.8	831.9	928.6	1470.4
		711.2	19.05	811.2	8605.9	332.93	377.1	421.27	3413	12	100	306024.4	2966.8	3560.1	3856.8	3055.1	3700.5	4130.8	6540.5
86-1118	O	34	0.688	44.02	160.1	57	64.88	72.75	20	0.472	10	2721.9	667.1	800.6	867.3	687	832.1	928.9	1470.7
		863.6	17.462	1118.1	8608.2	278.31	316.77	355.22	3413	12	254.5	371701.1	2967.6	3561.1	3857.8	3055.9	3701.5	4131.9	6542.2
86-1370	O	50	0.375	53.94	160.2	36.9	41.82	46.74	20	0.472	3.9	4004.2	667.4	800.8	867.6	687.2	832.4	929.2	1471.2
		1270	9.525	1370	8611.1	180.15	204.18	228.21	3413	12	100	546804.4	2968.6	3562.3	3859.1	3056.9	3702.8	4133.3	6544.4
86-1722	O	56	0.375	67.81	160.2	34.28	39.13	43.98	20	0.472	11.8	4485.4	667.5	801	867.7	687.3	832.6	929.4	1471.5
		1422.4	9.525	1722.4	8612.5	167.37	191.05	214.72	3413	12	300	612523.2	2969.1	3562.9	3859.8	3057.4	3703.4	4134	6545.5
86-1554	O	52	0.394	61.17	160.3	36.52	41.59	46.66	20	0.472	9.2	4168.5	668	801.6	868.4	687.9	833.2	930.1	1472.7
		1320.8	10	1553.8	8619.7	178.31	203.07	227.83	3413	12	233	569245.1	2971.5	3565.8	3863	3060	3706.5	4137.5	6551
86-862	O	30	0.688	33.94	160.4	63.31	71.71	80.12	20	0.472	3.9	2405.7	668.2	801.9	868.7	688.1	833.5	930.4	1473.2
		762	17.462	862	8622.5	309.1	350.14	391.18	3413	12	100	328517.4	2972.5	3567	3864.3	3061	3707.7	4138.8	6553.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
86-1147	O	36	0.625	45.17	160.4	53.53	60.9	68.28	20	0.472	9.2	2887.1	668.3	802	868.8	688.2	833.6	930.5	1473.3
		914.4	15.875	1147.4	8623.4	261.34	297.36	333.37	3413	12	233	394261.8	2972.8	3567.4	3864.7	3061.3	3708.1	4139.2	6553.8
86-1270	O	42	0.5	49.99	160.4	45.31	51.53	57.76	20	0.472	8	3369.1	668.5	802.2	869	688.4	833.8	930.8	1473.7
		1066.8	12.7	1269.8	8625.5	221.21	251.61	282.01	3413	12	203	460083.5	2973.5	3568.2	3865.6	3062	3709	4140.2	6555.4
86-674	O	24	0.875	26.52	160.5	80.93	91.6	102.26	20	0.472	2.5	1925.5	668.6	802.3	869.2	688.5	833.9	930.9	1473.9
		609.6	22.225	673.6	8626.9	395.15	447.21	499.27	3413	12	64	262946.9	2974	3568.8	3866.2	3062.5	3709.6	4140.9	6556.4
86-1067	O	32	0.75	42.02	160.5	61.02	69.44	77.85	20	0.472	10	2568.3	668.8	802.6	869.5	688.7	834.3	931.3	1474.5
		812.8	19.05	1067.3	8630.1	297.94	339.02	380.11	3413	12	254.5	350727.1	2975.1	3570.1	3867.7	3063.7	3710.9	4142.4	6558.9
86-1321	O	44	0.472	51.99	160.5	43.2	49.14	55.08	20	0.472	8	3531.8	668.9	802.7	869.6	688.8	834.3	931.4	1474.6
		1117.6	12	1320.6	8630.9	210.91	239.92	268.93	3413	12	203	482297.4	2975.4	3570.5	3868	3064	3711.3	4142.9	6559.5
86-1319	O	48	0.394	51.94	160.6	38.58	43.73	48.87	20	0.472	3.9	3854.4	669.2	803	869.9	689.1	834.7	931.7	1475.2
		1219.2	10	1319.2	8634.3	188.37	213.49	238.6	3413	12	100	526348.5	2976.6	3571.9	3869.6	3065.2	3712.8	4144.5	6562.1
86-1672	O	54	0.394	65.81	160.8	35.71	40.75	45.79	20	0.472	11.8	4342.9	670.2	804.2	871.3	690.2	836	933.2	1477.5
		1371.6	10	1671.6	8647.7	174.33	198.96	223.59	3413	12	300	593061.1	2981.2	3577.4	3875.6	3069.9	3718.5	4150.9	6572.3
87-1283	O	40	0.562	50.51	161	48.4	55.15	61.89	20	0.472	10.5	3219.5	670.7	804.9	871.9	690.7	836.6	933.9	1478.7
		1016	14.288	1283	8654.5	236.32	269.25	302.17	3413	12	267	439650	2983.5	3580.2	3878.6	3072.4	3721.4	4154.2	6577.4
87-1029	O	38	0.5	40.52	161.4	49.21	55.72	62.23	20	0.472	2.5	3067	672.6	807.1	874.4	692.6	838.9	936.5	1482.8
		965.2	12.7	1029.2	8678.6	240.27	272.04	303.82	3413	12	64	418828.2	2991.8	3590.2	3889.4	3080.9	3731.8	4165.7	6595.7
87-1218	O	44	0.438	47.94	161.6	42.48	48.14	53.79	20	0.472	3.9	3555.7	673.4	808.1	875.5	693.5	840	937.7	1484.6
		1117.6	11.112	1217.6	8689.5	207.39	235.02	262.64	3413	12	100	485568.3	2995.6	3594.7	3894.3	3084.8	3736.5	4171	6604
87-1452	O	48	0.438	57.17	161.7	39.96	45.49	51.03	20	0.472	9.2	3880.2	673.7	808.4	875.7	693.7	840.3	938	1485.1
		1219.2	11.112	1452.2	8692.2	195.09	222.12	249.15	3413	12	233	529879.5	2996.5	3595.9	3895.5	3085.7	3737.7	4172.3	6606.1
87-1080	O	40	0.472	42.52	161.7	46.71	52.89	59.07	20	0.472	2.5	3234.2	673.8	808.5	875.9	693.8	840.4	938.1	1485.4
		1016	12	1080	8694	228.07	258.25	288.42	3413	12	64	441652.8	2997.1	3596.6	3896.3	3086.4	3738.4	4173.1	6607.4
87-1385	O	44	0.5	54.51	161.7	44.03	50.18	56.33	20	0.472	10.5	3558.3	673.9	808.7	876.1	694	840.6	938.3	1485.7
		1117.6	12.7	1384.6	8695.8	215	245.01	275.02	3413	12	267	485920.8	2997.8	3597.3	3897.1	3087	3739.2	4174	6608.8
87-710	O	24	0.938	27.94	161.9	82.3	93.19	104.07	20	0.472	3.9	1943	674.6	809.6	877	694.7	841.5	939.4	1487.3
		609.6	23.812	709.6	8705.1	401.83	454.98	508.12	3413	12	100	265331.2	3001	3601.2	3901.3	3090.3	3743.2	4178.4	6615.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
87-995	O	30	0.812	39.17	162.1	65.93	74.96	84	20	0.472	9.2	2432.2	675.6	810.7	878.3	695.7	842.7	940.7	1489.4
		762	20.638	995	8717.6	321.91	366.01	410.11	3413	12	233	332140.7	3005.3	3606.3	3906.9	3094.7	3748.6	4184.4	6625.4
87-1145	O	38	0.562	45.09	162.4	50.42	57.24	64.06	20	0.472	7.1	3085.6	676.7	812	879.7	696.8	844	942.2	1491.7
		965.2	14.288	1145.2	8731.1	246.17	279.46	312.75	3413	12	180	421361.3	3009.9	3611.9	3912.9	3099.5	3754.4	4190.9	6635.6
87-1570	O	50	0.438	61.81	162.4	38.98	44.47	49.96	20	0.472	11.8	4061.1	676.9	812.2	879.9	697	844.3	942.4	1492.2
		1270	11.112	1570	8733.6	190.3	217.11	243.92	3413	12	300	554582.8	3010.8	3613	3914	3100.4	3755.4	4192.1	6637.5
87-1265	O	38	0.625	49.81	162.5	51.82	59.07	66.31	20	0.472	11.8	3087.9	677.2	812.6	880.3	697.3	844.6	942.9	1492.9
		965.2	15.875	1265.2	8737.6	253.01	288.38	323.76	3413	12	300	421678	3012.2	3614.6	3915.8	3101.9	3757.2	4194.1	6640.6
87-1271	O	40	0.562	50.02	162.6	48.69	55.44	62.18	20	0.472	10	3251.2	677.3	812.8	880.5	697.5	844.8	943.1	1493.2
		1016	14.288	1270.5	8739.7	237.73	270.67	303.61	3413	12	254.5	443975.6	3012.9	3615.5	3916.8	3102.6	3758.1	4195	6642.2
87-1062	O	30	0.875	41.81	162.6	66.95	76.23	85.52	20	0.472	11.8	2438.6	677.4	812.9	880.6	697.6	844.9	943.2	1493.4
		762	22.225	1062	8740.6	326.88	372.21	417.54	3413	12	300	333017.9	3013.2	3615.9	3917.2	3102.9	3758.5	4195.5	6642.9
87-978	O	28	0.938	38.51	162.6	71.98	81.89	91.79	20	0.472	10.5	2276.4	677.5	813	880.7	697.7	845.1	943.3	1493.6
		711.2	23.812	978.2	8741.8	351.44	399.8	448.17	3413	12	267	310858.7	3013.6	3616.4	3917.7	3103.3	3759	4196.1	6643.8
88-1575	O	54	0.375	61.99	162.8	35.48	40.36	45.25	20	0.472	8	4396	678.4	814.1	881.9	698.6	846.2	944.6	1495.6
		1371.6	9.525	1574.6	8753.5	173.21	197.08	220.95	3413	12	203	600314.4	3017.7	3621.2	3923	3107.5	3764	4201.7	6652.7
88-1372	O	44	0.5	54.02	163.2	44.26	50.41	56.55	20	0.472	10	3590.7	680.1	816.1	884.1	700.3	848.3	946.9	1499.3
		1117.6	12.7	1372.1	8775	216.1	246.1	276.1	3413	12	254.5	490347.6	3025.1	3630.1	3932.6	3115.1	3773.3	4212	6669
88-1097	O	34	0.688	43.17	163.3	57.89	65.85	73.8	20	0.472	9.2	2775.3	680.2	816.3	884.3	700.5	848.4	947.1	1499.6
		863.6	17.462	1096.6	8776.9	282.65	321.49	360.32	3413	12	233	378988.7	3025.7	3630.9	3933.5	3115.8	3774.1	4212.9	6670.5
88-1689	O	56	0.375	66.51	163.3	34.72	39.58	44.45	20	0.472	10.5	4573	680.5	816.6	884.7	700.8	848.8	947.5	1500.2
		1422.4	9.525	1689.4	8780.8	169.5	193.25	217.01	3413	12	267	624488	3027.1	3632.5	3935.2	3117.2	3775.7	4214.8	6673.4
88-1298	O	44	0.472	51.09	163.4	43.5	49.4	55.29	20	0.472	7.1	3594.4	680.8	816.9	885	701	849.1	947.9	1500.8
		1117.6	12	1297.6	8783.9	212.41	241.18	269.96	3413	12	180	490846.2	3028.2	3633.8	3936.6	3118.3	3777.1	4216.3	6675.8
88-1247	O	42	0.5	49.09	163.4	45.67	51.85	58.03	20	0.472	7.1	3431.3	680.8	817	885.1	701.1	849.2	947.9	1500.9
		1066.8	12.7	1246.8	8784.6	222.96	253.14	283.33	3413	12	180	468570.7	3028.4	3634.1	3936.9	3118.5	3777.4	4216.6	6676.3
88-1524	O	52	0.394	59.99	163.5	37.01	42.11	47.21	20	0.472	8	4250.6	681.2	817.4	885.5	701.5	849.7	948.4	1501.7
		1320.8	10	1523.8	8789.4	180.72	205.6	230.49	3413	12	203	580452.2	3030	3636	3939	3120.2	3779.4	4218.9	6679.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
88-914	O	28	0.875	35.99	163.5	71.44	81.15	90.87	20	0.472	8	2288.8	681.2	817.4	885.5	701.5	849.7	948.5	1501.7
		711.2	22.225	914.2	8789.4	348.8	396.22	443.65	3413	12	203	312552	3030	3636.1	3939.1	3120.2	3779.5	4218.9	6680
88-1046	O	32	0.75	41.17	163.8	62.04	70.55	79.05	20	0.472	9.2	2621.1	682.6	819.1	887.4	702.9	851.4	950.4	1504.8
		812.8	19.05	1045.8	8807.5	302.9	344.43	385.97	3413	12	233	357937.5	3036.3	3643.5	3947.2	3126.7	3787.2	4227.6	6693.7
88-1639	O	54	0.394	64.51	164.1	36.18	41.25	46.31	20	0.472	10.5	4430.4	683.7	820.4	888.8	704	852.8	952	1507.3
		1371.6	10	1638.6	8821.9	176.66	201.39	226.12	3413	12	267	605004.9	3041.2	3649.5	3953.6	3131.8	3793.4	4234.5	6704.6
88-1014	O	36	0.562	39.94	164.1	53.24	60.31	67.38	20	0.472	3.9	2954.5	683.9	820.7	889.1	704.3	853.1	952.3	1507.7
		914.4	14.288	1014.4	8824.7	259.92	294.45	328.98	3413	12	100	403466.1	3042.2	3650.7	3954.9	3132.8	3794.6	4235.9	6706.8
88-1334	O	50	0.375	52.52	164.5	37.69	42.68	47.67	20	0.472	2.5	4112.2	685.4	822.4	891	705.8	854.9	954.3	1511
		1270	9.525	1334	8843.5	184.03	208.38	232.73	3413	12	64	561560.7	3048.7	3658.4	3963.3	3139.4	3802.7	4244.9	6721
88-686	O	24.5	0.875	27.02	164.5	81.1	91.77	102.44	20	0.472	2.5	2015	685.4	822.5	891	705.8	854.9	954.3	1511
		622.3	22.225	686.3	8843.6	395.95	448.07	500.18	3413	12	64	275169.1	3048.7	3658.5	3963.3	3139.5	3802.8	4244.9	6721.1
88-1677	O	56	0.375	66.02	164.5	34.83	39.69	44.54	20	0.472	10	4607.1	685.6	822.7	891.3	706	855.1	954.6	1511.4
		1422.4	9.525	1676.9	8846.2	170.06	193.76	217.47	3413	12	254.5	629143.1	3049.6	3659.5	3964.5	3140.4	3803.9	4246.2	6723.1
89-1117	O	36	0.625	43.99	164.7	54.66	62.13	69.6	20	0.472	8	2964.6	686.3	823.5	892.1	706.7	856	955.5	1512.9
		914.4	15.875	1117.4	8854.9	266.86	303.35	339.83	3413	12	203	404847	3052.6	3663.1	3968.4	3143.5	3807.6	4250.4	6729.7
89-966	O	28	0.938	38.02	164.7	72.66	82.62	92.57	20	0.472	10	2305.8	686.3	823.5	892.1	706.7	856	955.5	1512.9
		711.2	23.812	965.7	8855	354.77	403.36	451.95	3413	12	254.5	314882.5	3052.6	3663.2	3968.4	3143.5	3807.6	4250.4	6729.8
89-877	O	32	0.625	34.52	164.8	60.32	68.28	76.24	20	0.472	2.5	2636.2	686.5	823.8	892.5	706.9	856.3	955.9	1513.5
		812.8	15.875	876.8	8858.2	294.5	333.36	372.23	3413	12	64	359996.6	3053.8	3664.5	3969.9	3144.7	3809	4251.9	6732.2
89-1422	O	48	0.438	55.99	165.1	40.56	46.13	51.71	20	0.472	8	3962.1	687.9	825.4	894.2	708.3	858	957.8	1516.4
		1219.2	11.112	1422.2	8875.6	198.03	225.24	252.45	3413	12	203	541056.8	3059.8	3671.7	3977.7	3150.8	3816.5	4260.3	6745.5
89-1283	O	48	0.394	50.52	165.1	39.45	44.67	49.89	20	0.472	2.5	3962.5	687.9	825.5	894.3	708.4	858.1	957.9	1516.6
		1219.2	10	1283.2	8876.6	192.63	218.11	243.59	3413	12	64	541115.2	3060.1	3672.1	3978.1	3151.2	3816.9	4260.7	6746.2
89-1552	O	54	0.375	61.09	165.2	35.62	40.45	45.29	20	0.472	7.1	4461.2	688.5	826.1	895	708.9	858.7	958.6	1517.7
		1371.6	9.525	1551.6	8883.2	173.9	197.5	221.1	3413	12	180	609213.1	3062.4	3674.9	3981.1	3153.6	3819.8	4264	6751.3
89-1116	O	40	0.5	43.94	165.3	47.96	54.33	60.71	20	0.472	3.9	3305.5	688.7	826.4	895.2	709.2	859	958.9	1518.2
		1016	12.7	1116	8885.8	234.16	265.29	296.41	3413	12	100	451399.6	3063.3	3675.9	3982.3	3154.5	3820.9	4265.2	6753.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
89-1167	O	42	0.472	45.94	165.3	45.58	51.64	57.7	20	0.472	3.9	3471.3	688.7	826.5	895.4	709.3	859.1	959	1518.4
		1066.8	12	1166.8	8887.1	222.54	252.13	281.72	3413	12	100	474035.8	3063.7	3676.4	3982.8	3154.9	3821.4	4265.8	6754.2
89-1626	O	54	0.394	64.02	165.3	36.31	41.37	46.42	20	0.472	10	4464.4	689	826.7	895.6	709.5	859.3	959.3	1518.8
		1371.6	10	1626.1	8889.7	177.3	201.98	226.66	3413	12	254.5	609655.6	3064.6	3677.5	3984	3155.8	3822.6	4267.1	6756.2
89-1249	O	40	0.562	49.17	165.4	49.33	56.12	62.92	20	0.472	9.2	3307.1	689	826.8	895.7	709.5	859.4	959.3	1518.9
		1016	14.288	1249	8890.1	240.84	274.02	307.2	3413	12	233	451618.1	3064.8	3677.7	3984.2	3156	3822.8	4267.3	6756.5
89-1113	O	32	0.812	43.81	165.8	63.56	72.37	81.19	20	0.472	11.8	2652.9	690.9	829	898.1	711.4	861.7	961.9	1523
		812.8	20.638	1112.8	8914.2	310.31	353.36	396.41	3413	12	300	362274.4	3073.1	3687.7	3995	3164.6	3833.1	4278.8	6774.8
89-1351	O	44	0.5	53.17	165.8	44.78	50.96	57.14	20	0.472	9.2	3647.9	690.9	829.1	898.2	711.5	861.8	962	1523.1
		1117.6	12.7	1350.6	8914.7	218.64	248.81	278.98	3413	12	233	498153.4	3073.2	3687.9	3995.2	3164.7	3833.3	4279.1	6775.2
89-1214	O	36	0.688	47.81	165.8	55.96	63.75	71.55	20	0.472	11.8	2984.9	691	829.1	898.2	711.5	861.8	962.1	1523.3
		914.4	17.462	1214.4	8915.6	273.21	311.27	349.33	3413	12	300	407620.2	3073.5	3688.2	3995.6	3165	3833.7	4279.5	6775.8
89-1537	O	50	0.438	60.51	165.9	39.56	45.08	50.6	20	0.472	10.5	4148.3	691.4	829.7	898.8	712	862.4	962.7	1524.2
		1270	11.112	1537	8921.1	193.13	220.09	247.06	3413	12	267	566489.9	3075.4	3690.5	3998.1	3167	3836.1	4282.1	6780
89-1501	O	52	0.394	59.09	166	37.19	42.23	47.27	20	0.472	7.1	4315.7	691.6	829.9	899.1	712.2	862.7	963	1524.7
		1320.8	10	1500.8	8924.1	181.55	206.17	230.79	3413	12	180	589347.7	3076.5	3691.8	3999.4	3168.1	3837.4	4283.6	6782.3
90-1519	O	48	0.472	59.81	166.5	41.6	47.44	53.28	20	0.472	11.8	3996.6	693.8	832.6	902	714.5	865.5	966.1	1529.6
		1219.2	12	1519.2	8952.9	203.12	231.63	260.14	3413	12	300	545766.2	3086.4	3703.7	4012.3	3178.3	3849.7	4297.4	6804.2
90-1182	O	44	0.438	46.52	166.5	43.54	49.3	55.05	20	0.472	2.5	3664.1	694	832.7	902.1	714.6	865.6	966.2	1529.9
		1117.6	11.112	1181.6	8954.2	212.6	240.7	268.79	3413	12	64	500362.2	3086.9	3704.2	4012.9	3178.8	3850.3	4298	6805.2
90-1011	O	28	1	39.81	166.6	74.22	84.46	94.7	20	0.472	11.8	2333.1	694.4	833.2	902.7	715	866.1	966.8	1530.8
		711.2	25.4	1011.2	8959.5	362.38	412.37	462.36	3413	12	300	318598.7	3088.7	3706.4	4015.3	3180.6	3852.6	4300.5	6809.2
90-1655	O	56	0.375	65.17	166.7	35.13	40	44.87	20	0.472	9.2	4667	694.5	833.4	902.8	715.2	866.3	967	1531
		1422.4	9.525	1655.4	8961.1	171.53	195.29	219.06	3413	12	233	637314.2	3089.2	3707.1	4016	3181.2	3853.3	4301.3	6810.4
90-1232	O	38	0.625	48.51	166.9	52.89	60.22	67.55	20	0.472	10.5	3170.6	695.3	834.4	903.9	716	867.3	968.1	1532.8
		965.2	15.875	1232.2	8971.6	258.21	294.01	329.81	3413	12	267	432971.1	3092.9	3711.4	4020.7	3184.9	3857.8	4306.4	6818.4
90-1164	O	34	0.75	45.81	166.9	59.88	68.2	76.52	20	0.472	11.8	2837.5	695.5	834.5	904.1	716.2	867.5	968.3	1533.2
		863.6	19.05	1163.6	8973.6	292.36	332.98	373.6	3413	12	300	387479.4	3093.5	3712.2	4021.6	3185.6	3858.6	4307.3	6819.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
90-1367	O	42	0.562	53.81	166.9	47.87	54.57	61.26	20	0.472	11.8	3505.5	695.5	834.6	904.2	716.2	867.6	968.4	1533.4
		1066.8	14.288	1366.8	8974.7	233.73	266.41	299.1	3413	12	300	478710.9	3093.9	3712.7	4022.1	3186	3859.1	4307.9	6820.8
90-1421	O	52	0.375	55.94	167.2	36.95	41.87	46.79	20	0.472	3.9	4346.9	696.6	835.9	905.6	717.3	868.9	969.9	1535.7
		1320.8	9.525	1420.8	8988.5	180.43	204.44	228.45	3413	12	100	593602.9	3098.7	3718.4	4028.3	3190.9	3865.1	4314.5	6831.3
90-965	O	30	0.812	37.99	167.2	67.63	76.82	86.02	20	0.472	8	2507.8	696.6	835.9	905.6	717.4	868.9	969.9	1535.7
		762	20.638	965	8988.6	330.18	375.08	419.97	3413	12	203	342466.3	3098.7	3718.5	4028.3	3191	3865.1	4314.5	6831.3
90-1525	O	50	0.438	60.02	167.3	39.72	45.24	50.75	20	0.472	10	4182.3	697.1	836.5	906.2	717.8	869.5	970.6	1536.7
		1270	11.112	1524.5	8994.2	193.94	220.88	247.81	3413	12	254.5	571134.8	3100.7	3720.8	4030.9	3193	3867.5	4317.2	6835.6
90-826	O	30	0.688	32.52	167.4	65.74	74.41	83.07	20	0.472	2.5	2510.5	697.4	836.8	906.6	718.1	869.8	971	1537.4
		762	17.462	826	8998.3	320.98	363.28	405.58	3413	12	64	342835.4	3102.1	3722.5	4032.7	3194.4	3869.3	4319.2	6838.7
90-775	O	28	0.75	30.52	167.5	71.01	80.36	89.71	20	0.472	2.5	2345	697.9	837.5	907.3	718.7	870.5	971.8	1538.6
		711.2	19.05	775.2	9005.5	346.7	392.35	438.01	3413	12	64	320236.1	3104.5	3725.4	4035.9	3197	3872.4	4322.6	6844.2
90-1605	O	54	0.394	63.17	167.6	36.64	41.71	46.79	20	0.472	9.2	4524.2	698.2	837.8	907.6	719	870.9	972.1	1539.2
		1371.6	10	1604.6	9008.8	178.91	203.67	228.43	3413	12	233	617824.4	3105.7	3726.8	4037.4	3198.1	3873.8	4324.2	6846.7
90-891	O	28	0.875	35.09	167.7	72.62	82.36	92.1	20	0.472	7.1	2347.8	698.8	838.5	908.4	719.6	871.6	972.9	1540.5
		711.2	22.225	891.2	9016.3	354.54	402.1	449.66	3413	12	180	320618.3	3108.2	3729.9	4040.7	3200.8	3877	4327.8	6852.4
90-1029	O	30	0.875	40.51	167.8	68.71	78.17	87.62	20	0.472	10.5	2516.8	699.1	838.9	908.9	719.9	872	973.4	1541.3
		762	22.225	1029	9020.9	335.49	381.64	427.8	3413	12	267	343697.8	3109.9	3731.8	4042.8	3202.4	3879	4330.1	6855.9
90-1399	O	48	0.438	55.09	167.8	40.8	46.32	51.85	20	0.472	7.1	4027.2	699.2	839	908.9	720	872.1	973.5	1541.4
		1219.2	11.112	1399.2	9021.5	199.21	226.17	253.14	3413	12	180	549950.7	3110.1	3732.1	4043.1	3202.6	3879.2	4330.3	6856.3
90-1067	O	34	0.688	41.99	167.8	59.2	67.27	75.34	20	0.472	8	2853.3	699.3	839.2	909.2	720.2	872.3	973.7	1541.8
		863.6	17.462	1066.6	9023.8	289.03	328.44	367.85	3413	12	203	389648.4	3110.9	3733	4044.1	3203.5	3880.2	4331.4	6858.1
90-1370	O	50	0.394	53.94	168	38.65	43.79	48.93	20	0.472	3.9	4199.1	699.9	839.8	909.8	720.7	872.9	974.4	1542.9
		1270	10	1370	9030.3	188.7	213.8	238.9	3413	12	100	573427	3113.1	3735.7	4047	3205.8	3883	4334.6	6863.1
90-1722	O	56	0.394	67.81	168	35.84	40.89	45.93	20	0.472	11.8	4704.4	700.1	840.1	910.1	720.9	873.2	974.7	1543.3
		1422.4	10	1722.4	9032.9	175	199.63	224.26	3413	12	300	642423.4	3114	3736.8	4048.2	3206.7	3884.2	4335.8	6865
90-1094	O	36	0.625	43.09	168.2	55.26	62.71	70.16	20	0.472	7.1	3026.9	700.7	840.8	910.9	721.5	874	975.6	1544.7
		914.4	15.875	1094.4	9041	269.81	306.18	342.55	3413	12	180	413355.3	3116.8	3740.1	4051.8	3209.6	3887.6	4339.7	6871.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
91-944	O	28	0.938	37.17	168.5	74.05	84.14	94.23	20	0.472	9.2	2358.3	701.9	842.3	912.5	722.8	875.5	977.3	1547.4
		711.2	23.812	944.2	9056.6	361.55	410.82	460.08	3413	12	233	322052.5	3122.2	3746.6	4058.8	3215.1	3894.3	4347.2	6883
91-1220	O	38	0.625	48.02	168.6	53.23	60.57	67.92	20	0.472	10	3203.1	702.4	842.9	913.2	723.3	876.2	978	1548.6
		965.2	15.875	1219.7	9063.6	259.9	295.75	331.59	3413	12	254.5	437408.4	3124.6	3749.5	4061.9	3217.6	3897.3	4350.5	6888.3
91-1016	O	32	0.75	39.99	168.7	63.53	72.18	80.83	20	0.472	8	2698.5	702.7	843.3	913.6	723.7	876.5	978.5	1549.2
		812.8	19.05	1015.8	9067.6	310.2	352.41	394.62	3413	12	203	368508.6	3126	3751.1	4063.7	3219	3899.1	4352.5	6891.4
91-1219	O	40	0.562	47.99	169.4	50.26	57.13	64	20	0.472	8	3388.5	705.9	847.1	917.7	727	880.5	982.9	1556.3
		1016	14.288	1219	9108.9	245.39	278.94	312.48	3413	12	203	462732.6	3140.2	3768.2	4082.2	3233.7	3916.8	4372.3	6922.8
91-1321	O	44	0.5	51.99	169.6	45.54	51.77	58.01	20	0.472	8	3730.8	706.6	847.9	918.6	727.6	881.3	983.8	1557.7
		1117.6	12.7	1320.6	9117.2	222.34	252.77	283.21	3413	12	203	509469.9	3143.1	3771.7	4086	3236.6	3920.4	4376.3	6929.1
91-1503	O	50	0.438	59.17	169.7	40.12	45.66	51.2	20	0.472	9.2	4242.2	707	848.4	919.1	728.1	881.9	984.4	1558.7
		1270	11.112	1503	9122.9	195.9	222.95	249.99	3413	12	233	579304.7	3145	3774	4088.5	3238.6	3922.9	4379	6933.4
91-1625	O	56	0.375	63.99	169.8	35.57	40.46	45.34	20	0.472	8	4753.1	707.3	848.8	919.5	728.4	882.2	984.8	1559.3
		1422.4	9.525	1625.4	9126.5	173.67	197.53	221.39	3413	12	203	649077.2	3146.3	3775.5	4090.1	3239.9	3924.4	4380.7	6936.1
91-964	O	34	0.625	37.94	169.8	58.55	66.3	74.06	20	0.472	3.9	2887.2	707.6	849.2	919.9	728.7	882.7	985.3	1560.1
		863.6	15.875	963.6	9130.9	285.85	323.73	361.61	3413	12	100	394270.4	3147.8	3777.3	4092.1	3241.5	3926.3	4382.8	6939.5
91-1017	O	30	0.875	40.02	169.9	69.32	78.81	88.3	20	0.472	10	2547.8	707.7	849.3	920	728.8	882.8	985.4	1560.2
		762	22.225	1016.5	9131.9	338.46	384.8	431.14	3413	12	254.5	347924.2	3148.1	3777.7	4092.5	3241.8	3926.7	4383.3	6940.2
91-978	O	36	0.562	38.52	170.2	54.92	62.16	69.4	20	0.472	2.5	3063.2	709.1	850.9	921.8	730.2	884.5	987.3	1563.2
		914.4	14.288	978.4	9149.4	268.14	303.49	338.84	3413	12	64	418311.5	3154.2	3785	4100.4	3248	3934.3	4391.7	6953.6
92-1486	O	48	0.472	58.51	170.2	42.26	48.14	54.02	20	0.472	10.5	4085.3	709.3	851.1	922	730.4	884.7	987.5	1563.6
		1219.2	12	1486.2	9151.6	206.33	235.04	263.75	3413	12	267	557884.5	3154.9	3785.9	4101.4	3248.8	3935.2	4392.8	6955.3
92-1621	O	52	0.438	63.81	170.4	39.16	44.66	50.15	20	0.472	11.8	4429.5	709.9	851.8	922.8	731	885.4	988.4	1564.9
		1320.8	11.112	1620.8	9159.5	191.21	218.04	244.86	3413	12	300	604890.2	3157.6	3789.1	4104.9	3251.6	3938.6	4396.5	6961.2
92-1181	O	36	0.688	46.51	170.5	57.19	65.09	72.99	20	0.472	10.5	3068.3	710.3	852.3	923.3	731.4	885.9	988.9	1565.8
		914.4	17.462	1181.4	9164.6	279.21	317.78	356.36	3413	12	267	419006.3	3159.4	3791.3	4107.2	3253.4	3940.8	4399	6965.1
92-1131	O	42	0.472	44.52	170.6	46.79	52.97	59.14	20	0.472	2.5	3581.8	710.7	852.8	923.9	731.8	886.4	989.5	1566.7
		1066.8	12	1130.8	9170	228.46	258.61	288.76	3413	12	64	489127.2	3161.2	3793.5	4109.6	3255.3	3943.1	4401.6	6969.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
92-674	O	24	0.938	26.52	170.6	86.3	97.63	108.97	20	0.472	2.5	2046.8	710.7	852.8	923.9	731.9	886.5	989.6	1566.8
		609.6	23.812	673.6	9170.3	421.36	476.69	532.03	3413	12	64	279511.6	3161.4	3793.6	4109.8	3255.5	3943.2	4401.8	6969.4
92-1575	O	54	0.394	61.99	170.8	37.12	42.22	47.31	20	0.472	8	4610.4	711.5	853.8	924.9	732.7	887.5	990.6	1568.5
		1371.6	10	1574.6	9180.5	181.26	206.13	231.01	3413	12	203	629595.5	3164.9	3797.8	4114.3	3259.1	3947.6	4406.6	6977.1
92-1080	O	40	0.5	42.52	170.8	49.31	55.81	62.32	20	0.472	2.5	3415.7	711.6	853.9	925.1	732.8	887.6	990.8	1568.8
		1016	12.7	1080	9182	240.75	272.51	304.26	3413	12	64	466446.3	3165.4	3798.5	4115	3259.6	3948.3	4407.4	6978.3
92-1080	O	32	0.812	42.51	170.9	65.13	74.1	83.06	20	0.472	10.5	2734	712	854.4	925.6	733.2	888.1	991.3	1569.6
		812.8	20.638	1079.8	9186.7	318	361.77	405.54	3413	12	267	373346	3167	3800.4	4117.1	3261.3	3950.3	4409.6	6981.9
92-1334	O	42	0.562	52.51	171.1	48.76	55.52	62.28	20	0.472	10.5	3592.3	712.8	855.3	926.6	734	889	992.4	1571.3
		1066.8	14.288	1333.8	9196.8	238.06	271.07	304.08	3413	12	267	490554.8	3170.5	3804.6	4121.6	3264.8	3954.6	4414.4	6989.5
92-942	O	30	0.812	37.09	171.3	68.65	77.85	87.06	20	0.472	7.1	2569.1	713.6	856.4	927.7	734.9	890.1	993.6	1573.2
		762	20.638	942	9208.1	335.16	380.12	425.08	3413	12	180	350828	3174.4	3809.2	4126.7	3268.9	3959.5	4419.9	6998.1
92-1689	O	56	0.394	66.51	171.3	36.31	41.37	46.44	20	0.472	10.5	4796.3	713.7	856.5	927.8	735	890.3	993.8	1573.5
		1422.4	10	1689.4	9209.4	177.28	202.01	226.74	3413	12	267	654972.2	3174.8	3809.8	4127.3	3269.3	3960	4420.5	6999.1
92-710	O	24	1	27.94	171.3	87.37	98.89	110.4	20	0.472	3.9	2056.2	714	856.7	928.1	735.2	890.5	994.1	1574
		609.6	25.4	709.6	9212.3	426.57	482.8	539.04	3413	12	100	280792	3175.8	3811	4128.6	3270.4	3961.3	4421.9	7001.4
92-1385	O	52	0.375	54.52	171.5	37.72	42.7	47.68	20	0.472	2.5	4459.9	714.7	857.7	929.1	736	891.5	995.2	1575.7
		1320.8	9.525	1384.8	9222.2	184.17	208.49	232.81	3413	12	64	609034.5	3179.2	3815.1	4133	3273.9	3965.5	4426.7	7008.9
92-1044	O	34	0.688	41.09	171.5	59.93	67.99	76.05	20	0.472	7.1	2916.2	714.8	857.7	929.2	736	891.5	995.2	1575.7
		863.6	17.462	1043.6	9222.7	292.62	331.97	371.31	3413	12	180	398235.9	3179.4	3815.3	4133.2	3274.1	3965.8	4426.9	7009.2
92-1198	O	38	0.625	47.17	171.6	53.98	61.38	68.79	20	0.472	9.2	3260.6	715	858	929.5	736.3	891.9	995.6	1576.3
		965.2	15.875	1198.2	9226.2	263.54	299.69	335.84	3413	12	233	445257.1	3180.6	3816.7	4134.8	3275.3	3967.3	4428.6	7011.9
92-1474	O	48	0.472	58.02	171.7	42.46	48.33	54.21	20	0.472	10	4120	715.3	858.3	929.9	736.6	892.2	995.9	1576.9
		1219.2	12	1473.7	9229.3	207.28	235.97	264.67	3413	12	254.5	562616.5	3181.7	3818	4136.2	3276.4	3968.6	4430.1	7014.2
92-1131	O	34	0.75	44.51	171.8	61.28	69.72	78.17	20	0.472	10.5	2920.3	715.8	858.9	930.5	737.1	892.8	996.6	1577.9
		863.6	19.05	1130.6	9235.5	299.18	340.42	381.66	3413	12	267	398789.1	3183.8	3820.6	4139	3278.6	3971.3	4433	7019
93-1602	O	56	0.375	63.09	172.2	35.71	40.54	45.37	20	0.472	7.1	4821.3	717.5	860.9	932.7	738.8	894.9	999	1581.7
		1422.4	9.525	1602.4	9257.5	174.35	197.94	221.54	3413	12	180	658393.7	3191.4	3829.7	4148.8	3286.4	3980.7	4443.6	7035.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
93-811	O	28	0.812	31.94	172.2	73.5	83.21	92.92	20	0.472	3.9	2411.4	717.7	861.2	933	739	895.2	999.3	1582.2
		711.2	20.638	811.2	9260.3	358.86	406.27	453.68	3413	12	100	329294.9	3192.4	3830.8	4150.1	3287.4	3981.9	4444.9	7037.8
93-978	O	28	1	38.51	172.3	76.32	86.77	97.22	20	0.472	10.5	2411.8	717.8	861.3	933.1	739.2	895.3	999.4	1582.4
		711.2	25.4	978.2	9261.7	372.63	423.65	474.67	3413	12	267	329346.8	3192.9	3831.4	4150.7	3287.9	3982.5	4445.6	7038.9
93-1169	O	36	0.688	46.02	172.3	57.59	65.51	73.43	20	0.472	10	3101.1	717.9	861.4	933.2	739.2	895.4	999.5	1582.6
		914.4	17.462	1168.9	9262.6	281.19	319.84	358.5	3413	12	254.5	423487	3193.2	3831.8	4151.1	3288.2	3982.9	4446.1	7039.6
93-1334	O	50	0.394	52.52	172.5	39.49	44.7	49.92	20	0.472	2.5	4312.4	718.7	862.5	934.4	740.1	896.5	1000.7	1584.5
		1270	10	1334	9274	192.81	218.26	243.71	3413	12	64	588901.8	3197.1	3836.5	4156.2	3292.3	3987.8	4451.5	7048.3
93-993	O	32	0.75	39.09	172.6	64.41	73.05	81.7	20	0.472	7.1	2761	719	862.8	934.7	740.4	896.9	1001.1	1585.1
		812.8	19.05	992.8	9277.7	314.45	356.67	398.89	3413	12	180	377045.7	3198.4	3838	4157.9	3293.6	3989.4	4453.3	7051.1
93-1677	O	56	0.394	66.02	172.6	36.44	41.49	46.55	20	0.472	10	4832	719.1	862.9	934.8	740.5	896.9	1001.2	1585.2
		1422.4	10	1676.9	9278	177.9	202.58	227.26	3413	12	254.5	659854.5	3198.5	3838.2	4158	3293.7	3989.6	4453.5	7051.3
93-1298	O	44	0.5	51.09	172.6	45.89	52.08	58.27	20	0.472	7.1	3796.9	719.1	862.9	934.8	740.5	897	1001.3	1585.3
		1117.6	12.7	1297.6	9278.8	224.04	254.27	284.5	3413	12	180	518500.3	3198.8	3838.5	4158.4	3294	3989.9	4453.8	7051.9
93-1321	O	42	0.562	52.02	172.7	49.04	55.8	62.57	20	0.472	10	3626.2	719.5	863.4	935.3	740.9	897.4	1001.8	1586.2
		1066.8	14.288	1321.3	9283.8	239.42	272.45	305.48	3413	12	254.5	495195.6	3200.5	3840.6	4160.6	3295.7	3992	4456.2	7055.7
93-1196	O	40	0.562	47.09	172.7	50.73	57.57	64.4	20	0.472	7.1	3453.7	719.5	863.4	935.4	740.9	897.5	1001.8	1586.2
		1016	14.288	1196	9284.1	247.68	281.06	314.44	3413	12	180	471631.3	3200.6	3840.7	4160.7	3295.8	3992.2	4456.4	7055.9
93-1067	O	32	0.812	42.02	172.9	65.67	74.67	83.66	20	0.472	10	2766	720.3	864.4	936.4	741.7	898.5	1002.9	1588
		812.8	20.638	1067.3	9294.3	320.63	364.55	408.46	3413	12	254.5	377718.5	3204.1	3844.9	4165.3	3299.5	3996.5	4461.2	7063.6
93-913	O	32	0.688	35.94	173.1	63.71	72.14	80.57	20	0.472	3.9	2769.1	721.1	865.3	937.4	742.6	899.5	1004.1	1589.7
		812.8	17.462	912.8	9304.7	311.07	352.22	393.38	3413	12	100	378142	3207.7	3849.2	4170	3303.2	4001	4466.2	7071.6
93-1062	O	30	0.938	41.81	173.1	71.28	81.1	90.92	20	0.472	11.8	2596.4	721.2	865.5	937.6	742.7	899.6	1004.2	1590
		762	23.812	1062	9306.1	348	395.97	443.93	3413	12	300	354562.1	3208.2	3849.8	4170.6	3303.7	4001.6	4466.9	7072.6
93-1473	O	50	0.438	57.99	173.1	40.71	46.28	51.86	20	0.472	8	4328.6	721.4	865.7	937.9	742.9	899.9	1004.5	1590.4
		1270	11.112	1473	9308.7	198.76	225.98	253.19	3413	12	203	591103.2	3209.1	3850.9	4171.8	3304.6	4002.7	4468.2	7074.6
93-1552	O	54	0.394	61.09	173.3	37.29	42.33	47.38	20	0.472	7.1	4678.8	722	866.4	938.6	743.5	900.6	1005.3	1591.8
		1371.6	10	1551.6	9316.5	182.07	206.69	231.31	3413	12	180	638928.2	3211.8	3854.1	4175.3	3307.4	4006.1	4471.9	7080.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
93-995	O	30	0.875	39.17	173.5	70.57	80.18	89.79	20	0.472	9.2	2602.8	723	867.6	939.9	744.5	901.8	1006.7	1593.9
		762	22.225	995	9329.2	344.54	391.47	438.4	3413	12	233	355442.2	3216.1	3859.3	4181	3311.9	4011.6	4478	7090.2
93-1316	O	40	0.625	51.81	173.6	52.3	59.57	66.85	20	0.472	11.8	3471.1	723.2	867.8	940.1	744.7	902	1006.9	1594.2
		1016	15.875	1316	9331	255.33	290.85	326.37	3413	12	300	474012.9	3216.7	3860.1	4181.8	3312.5	4012.3	4478.9	7091.5
93-1118	O	34	0.75	44.02	173.7	61.75	70.22	78.69	20	0.472	10	2952.9	723.8	868.5	940.9	745.3	902.8	1007.7	1595.6
		863.6	19.05	1118.1	9338.8	301.48	342.83	384.18	3413	12	254.5	403247.5	3219.4	3863.3	4185.2	3315.3	4015.7	4482.6	7097.5
93-862	O	30	0.75	33.94	173.9	68.71	77.79	86.87	20	0.472	3.9	2607.9	724.4	869.3	941.7	746	903.6	1008.7	1597
		762	19.05	862	9347.3	335.46	379.79	424.13	3413	12	100	356132.3	3222.4	3866.8	4189.1	3318.3	4019.3	4486.7	7104
93-1588	O	52	0.438	62.51	173.9	39.73	45.25	50.78	20	0.472	10.5	4521.6	724.6	869.5	942	746.2	903.8	1008.9	1597.5
		1320.8	11.112	1587.8	9349.8	193.96	220.94	247.92	3413	12	267	617461.9	3223.2	3867.9	4190.2	3319.2	4020.4	4487.9	7105.9
94-914	O	28	0.938	35.99	174	76.11	86.4	96.7	20	0.472	8	2435.7	724.9	869.9	942.4	746.5	904.2	1009.4	1598.1
		711.2	23.812	914.2	9353.8	371.59	421.86	472.13	3413	12	203	332620.9	3224.6	3869.5	4192	3320.6	4022.1	4489.8	7108.9
94-1218	O	44	0.472	47.94	174.1	45.7	51.76	57.82	20	0.472	3.9	3830.6	725.5	870.6	943.1	747.1	904.9	1010.1	1599.4
		1117.6	12	1217.6	9361.1	223.13	252.73	282.32	3413	12	100	523096.3	3227.1	3872.5	4195.2	3323.2	4025.3	4493.3	7114.4
94-1452	O	48	0.472	57.17	174.2	42.91	48.82	54.72	20	0.472	9.2	4181	725.9	871	943.6	747.5	905.4	1010.7	1600.2
		1219.2	12	1452.2	9365.9	209.51	238.34	267.18	3413	12	233	570946.2	3228.8	3874.5	4197.4	3324.9	4027.3	4495.6	7118.1
94-1472	O	54	0.375	57.94	174.2	37.01	41.92	46.84	20	0.472	3.9	4703.7	725.9	871.1	943.6	747.5	905.4	1010.7	1600.3
		1371.6	9.525	1471.6	9366.2	180.69	204.68	228.67	3413	12	100	642331.5	3228.9	3874.6	4197.5	3325	4027.5	4495.8	7118.3
94-966	O	28	1	38.02	174.5	77.06	87.56	98.06	20	0.472	10	2443	727.1	872.5	945.2	748.7	906.9	1012.4	1602.9
		711.2	25.4	965.7	9381.6	376.24	427.52	478.79	3413	12	254.5	333609.8	3234.2	3881	4204.4	3330.5	4034.1	4503.2	7130
94-1065	O	38	0.562	41.94	174.6	53.45	60.53	67.61	20	0.472	3.9	3317.3	727.5	873	945.7	749.1	907.4	1012.9	1603.8
		965.2	14.288	1065.2	9386.8	260.97	295.53	330.09	3413	12	100	453006.9	3236	3883.2	4206.8	3332.3	4036.3	4505.7	7134
94-1167	O	42	0.5	45.94	174.6	48.11	54.48	60.86	20	0.472	3.9	3666.5	727.5	873	945.7	749.1	907.4	1012.9	1603.8
		1066.8	12.7	1166.8	9386.9	234.88	266.01	297.14	3413	12	100	500697.6	3236	3883.2	4206.8	3332.4	4036.4	4505.7	7134
94-1655	O	56	0.394	65.17	174.8	36.76	41.83	46.9	20	0.472	9.2	4894.8	728.4	874.1	946.9	750.1	908.5	1014.2	1605.8
		1422.4	10	1655.4	9398.5	179.47	204.23	228.98	3413	12	233	668424.5	3240	3888	4212	3336.5	4041.4	4511.3	7142.9
94-1570	O	50	0.472	61.81	175.1	41.82	47.67	53.52	20	0.472	11.8	4376.3	729.4	875.3	948.2	751.1	909.8	1015.6	1608
		1270	12	1570	9411.3	204.21	232.75	261.3	3413	12	300	597617.2	3244.4	3893.3	4217.8	3341	4046.9	4517.4	7152.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
94-1575	O	52	0.438	62.02	175.3	39.89	45.41	50.93	20	0.472	10	4557.5	730.4	876.4	949.5	752.1	911	1016.9	1610.1
		1320.8	11.112	1575.3	9424	194.76	221.71	248.65	3413	12	254.5	622361.5	3248.8	3898.6	4223.5	3345.5	4052.3	4523.5	7162.2
94-1421	O	52	0.394	55.94	175.3	38.71	43.85	48.99	20	0.472	3.9	4558.7	730.6	876.7	949.7	752.3	911.2	1017.2	1610.6
		1320.8	10	1420.8	9426.6	189.01	214.09	239.18	3413	12	100	622531.7	3249.7	3899.6	4224.6	3346.4	4053.4	4524.8	7164.2
94-1147	O	36	0.688	45.17	175.5	58.45	66.45	74.44	20	0.472	9.2	3159.2	731.3	877.6	950.7	753.1	912.2	1018.2	1612.2
		914.4	17.462	1147.4	9436.2	285.39	324.41	363.44	3413	12	233	431422.3	3253	3903.6	4228.9	3349.8	4057.6	4529.4	7171.5
94-1300	O	42	0.562	51.17	175.5	49.66	56.47	63.28	20	0.472	9.2	3686.2	731.4	877.7	950.8	753.2	912.3	1018.4	1612.4
		1066.8	14.288	1299.8	9437.3	242.44	275.7	308.97	3413	12	233	503386.7	3253.4	3904.1	4229.4	3350.2	4058	4529.9	7172.4
95-1450	O	50	0.438	57.09	175.9	40.94	46.47	52	20	0.472	7.1	4397.2	732.9	879.4	952.7	754.7	914.1	1020.4	1615.7
		1270	11.112	1450	9456.4	199.91	226.89	253.87	3413	12	180	600479.3	3260	3912	4238	3357	4066.2	4539.1	7186.8
95-1519	O	48	0.5	59.81	175.9	43.83	49.94	56.06	20	0.472	11.8	4222.4	733.1	879.7	953	754.9	914.4	1020.7	1616.1
		1219.2	12.7	1519.2	9458.8	213.98	243.85	273.72	3413	12	300	576605.5	3260.8	3912.9	4239	3357.9	4067.3	4540.2	7188.7
95-1168	O	38	0.625	45.99	176	55.07	62.57	70.06	20	0.472	8	3344.3	733.4	880.1	953.4	755.2	914.8	1021.2	1616.8
		965.2	15.875	1168.2	9463.1	268.88	305.48	342.08	3413	12	203	456691.5	3262.3	3914.8	4241	3359.4	4069.2	4542.3	7192
95-928	O	34	0.625	36.52	176.4	60.53	68.49	76.45	20	0.472	2.5	2999.2	735.1	882.1	955.6	757	916.9	1023.5	1620.6
		863.6	15.875	927.6	9485.2	295.53	334.4	373.28	3413	12	64	409572	3269.9	3923.9	4250.9	3367.3	4078.6	4552.9	7208.8
95-1046	O	32	0.812	41.17	176.4	66.78	75.88	84.98	20	0.472	9.2	2822.8	735.1	882.1	955.6	757	916.9	1023.5	1620.6
		812.8	20.638	1045.8	9485.3	326.05	370.48	414.91	3413	12	233	385483.8	3270	3923.9	4250.9	3367.3	4078.7	4553	7208.9
95-1418	O	44	0.562	55.81	177	48.22	54.94	61.65	20	0.472	11.8	3893.2	737.4	884.8	958.6	759.3	919.7	1026.7	1625.6
		1117.6	14.288	1417.6	9514.3	235.45	268.23	301.01	3413	12	300	531656.3	3279.9	3935.9	4263.9	3377.6	4091.1	4566.8	7230.8
95-1097	O	34	0.75	43.17	177.1	62.73	71.29	79.85	20	0.472	9.2	3010.8	737.9	885.5	959.3	759.9	920.5	1027.5	1626.9
		863.6	19.05	1096.6	9521.9	306.27	348.06	389.85	3413	12	233	411153.6	3282.5	3939	4267.3	3380.3	4094.4	4570.5	7236.6
95-1113	O	32	0.875	43.81	177.5	67.99	77.37	86.74	20	0.472	11.8	2840.1	739.6	887.5	961.5	761.6	922.5	1029.8	1630.5
		812.8	22.225	1112.8	9543.4	331.98	377.74	423.5	3413	12	300	387844.2	3290	3948	4277	3387.9	4103.7	4580.8	7253
96-1554	O	52	0.438	61.17	177.7	40.28	45.82	51.36	20	0.472	9.2	4620.5	740.5	888.6	962.6	762.5	923.6	1031	1632.4
		1320.8	11.112	1553.8	9554.4	196.67	223.72	250.78	3413	12	233	630973.1	3293.8	3952.5	4281.9	3391.8	4108.4	4586.1	7261.4
96-1422	O	48	0.472	55.99	177.9	43.58	49.53	55.48	20	0.472	8	4269.1	741.2	889.4	963.5	763.2	924.5	1032	1634
		1219.2	12	1422.2	9563.5	212.75	241.8	270.86	3413	12	203	582989.7	3296.9	3956.3	4286	3395	4112.3	4590.5	7268.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
96-1265	O	38	0.688	49.81	177.9	56.54	64.38	72.22	20	0.472	11.8	3379.9	741.2	889.4	963.6	763.3	924.5	1032	1634
		965.2	17.462	1265.2	9563.8	276.07	314.33	352.59	3413	12	300	461550	3297	3956.4	4286.1	3395.2	4112.4	4590.6	7268.5
96-1319	O	48	0.438	51.94	178	42.66	48.32	53.97	20	0.472	3.9	4271.4	741.6	889.9	964	763.6	925	1032.5	1634.8
		1219.2	11.112	1319.2	9568.6	208.31	235.91	263.52	3413	12	100	583301.2	3298.7	3958.4	4288.2	3396.8	4114.5	4592.9	7272.1
96-1283	O	40	0.625	50.51	178	53.33	60.69	68.05	20	0.472	10.5	3560.4	741.8	890.1	964.3	763.8	925.2	1032.8	1635.2
		1016	15.875	1283	9571	260.39	296.32	332.26	3413	12	267	486205	3299.5	3959.4	4289.3	3397.7	4115.5	4594.1	7273.9
96-1625	O	56	0.394	63.99	178	37.23	42.32	47.41	20	0.472	8	4985.1	741.8	890.2	964.4	763.9	925.3	1032.9	1635.4
		1422.4	10	1625.4	9572	181.76	206.63	231.5	3413	12	203	680761.7	3299.8	3959.8	4289.8	3398.1	4116	4594.6	7274.7
96-1672	O	54	0.438	65.81	178.3	39.34	44.84	50.33	20	0.472	11.8	4814.3	742.9	891.5	965.8	765.1	926.7	1034.5	1637.9
		1371.6	11.112	1671.6	9586.4	192.06	218.91	245.75	3413	12	300	657436	3304.8	3965.8	4296.2	3403.2	4122.2	4601.5	7285.7
96-891	O	28	0.938	35.09	178.5	77.4	87.74	98.08	20	0.472	7.1	2498.6	743.6	892.4	966.7	765.8	927.5	1035.4	1639.4
		711.2	23.812	891.2	9595.2	377.92	428.4	478.88	3413	12	180	341205.1	3307.8	3969.4	4300.2	3406.3	4125.9	4605.7	7292.3
96-944	O	28	1	37.17	178.5	78.55	89.2	99.85	20	0.472	9.2	2498.6	743.6	892.4	966.7	765.8	927.6	1035.4	1639.4
		711.2	25.4	944.2	9595.2	383.51	435.52	487.53	3413	12	233	341206.3	3307.8	3969.4	4300.2	3406.3	4125.9	4605.7	7292.4
96-1436	O	54	0.375	56.52	178.6	37.75	42.72	47.7	20	0.472	2.5	4821.6	744.1	892.9	967.3	766.2	928.1	1036	1640.4
		1371.6	9.525	1435.6	9601	184.3	208.59	232.88	3413	12	64	658439	3309.8	3971.8	4302.8	3408.4	4128.4	4608.5	7296.8
96-1029	O	30	0.938	40.51	178.6	73.18	83.19	93.2	20	0.472	10.5	2679.7	744.4	893.2	967.7	766.5	928.5	1036.4	1641
		762	23.812	1029	9604.5	357.28	406.16	455.04	3413	12	267	365932.9	3311	3973.3	4304.4	3409.6	4130	4610.2	7299.4
96-1537	O	50	0.472	60.51	178.8	42.47	48.35	54.24	20	0.472	10.5	4470.2	745	894	968.5	767.2	929.3	1037.4	1642.5
		1270	12	1537	9613.4	207.33	236.08	264.82	3413	12	267	610448.3	3314.1	3976.9	4308.3	3412.7	4133.7	4614.4	7306.2
96-965	O	30	0.875	37.99	178.9	72.41	82.2	91.99	20	0.472	8	2683.8	745.5	894.6	969.1	767.7	929.9	1038	1643.5
		762	22.225	965	9619.2	353.52	401.33	449.15	3413	12	203	366492.2	3316.1	3979.3	4310.9	3414.8	4136.3	4617.2	7310.6
96-1182	O	44	0.472	46.52	179.4	46.87	53.04	59.21	20	0.472	2.5	3947.3	747.6	897.1	971.9	769.8	932.5	1040.9	1648.1
		1117.6	12	1181.6	9646.3	228.82	258.94	289.06	3413	12	64	539033.5	3325.4	3990.5	4323.1	3424.4	4147.9	4630.2	7331.2
97-1145	O	38	0.625	45.09	179.5	55.66	63.13	70.6	20	0.472	7.1	3411.4	748.1	897.7	972.6	770.4	933.2	1041.7	1649.3
		965.2	15.875	1145.2	9653.2	271.74	308.23	344.72	3413	12	180	465863.6	3327.8	3993.4	4326.2	3426.9	4150.9	4633.5	7336.4
97-1270	O	42	0.562	49.99	179.7	50.56	57.44	64.33	20	0.472	8	3773.3	748.7	898.4	973.3	771	933.8	1042.4	1650.5
		1066.8	14.288	1269.8	9660.3	246.85	280.46	314.07	3413	12	203	515279.6	3330.3	3996.3	4329.3	3429.4	4153.9	4636.9	7341.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
97-1271	O	40	0.625	50.02	179.8	53.67	61.04	68.41	20	0.472	10	3595.4	749	898.9	973.8	771.3	934.3	1042.9	1651.3
		1016	15.875	1270.5	9665.1	262.03	298.01	333.99	3413	12	254.5	490988.6	3331.9	3998.3	4331.5	3431.1	4156	4639.3	7345.5
97-1164	O	34	0.812	45.81	179.8	64.42	73.31	82.2	20	0.472	11.8	3056.9	749.2	899.1	974	771.5	934.5	1043.2	1651.7
		863.6	20.638	1163.6	9667.5	314.54	357.93	401.33	3413	12	300	417444.1	3332.8	3999.3	4332.6	3432	4157	4640.4	7347.3
97-1486	O	48	0.5	58.51	179.8	44.53	50.7	56.86	20	0.472	10.5	4316.2	749.3	899.2	974.1	771.6	934.7	1043.3	1652
		1219.2	12.7	1486.2	9668.8	217.43	247.53	277.63	3413	12	267	589408.6	3333.2	3999.8	4333.1	3432.4	4157.6	4641	7348.3
97-1385	O	52	0.394	54.52	179.9	39.52	44.73	49.94	20	0.472	2.5	4677.2	749.6	899.5	974.4	771.9	934.9	1043.7	1652.4
		1320.8	10	1384.8	9671.6	192.98	218.39	243.81	3413	12	64	638715.3	3334.2	4001	4334.4	3433.4	4158.8	4642.4	7350.4
97-1214	O	36	0.75	47.81	180	60.6	68.97	77.34	20	0.472	11.8	3239.3	749.8	899.8	974.8	772.2	935.3	1044	1653.1
		914.4	19.05	1214.4	9675.2	295.85	336.74	377.63	3413	12	300	442351.8	3335.4	4002.5	4336	3434.7	4160.4	4644.1	7353.2
97-1131	O	42	0.5	44.52	180.2	49.4	55.9	62.4	20	0.472	2.5	3783.3	750.6	900.8	975.8	773	936.3	1045.2	1654.9
		1066.8	12.7	1130.8	9685.7	241.19	272.93	304.67	3413	12	64	516637.8	3339	4006.8	4340.8	3438.4	4164.9	4649.2	7361.2
97-877	O	32	0.688	34.52	180.2	66.02	74.69	83.37	20	0.472	2.5	2882.8	750.7	900.9	975.9	773.1	936.4	1045.3	1655
		812.8	17.462	876.8	9686.7	322.35	364.69	407.03	3413	12	64	393667.9	3339.4	4007.2	4341.2	3438.8	4165.3	4649.6	7361.9
97-1117	O	36	0.688	43.99	180.2	59.72	67.82	75.93	20	0.472	8	3244.1	750.9	901.1	976.2	773.3	936.7	1045.6	1655.5
		914.4	17.462	1117.4	9689.5	291.56	331.13	370.7	3413	12	203	443005.2	3340.3	4008.4	4342.4	3439.8	4166.5	4651	7364
97-775	O	28	0.812	30.52	180.2	76.57	86.61	96.66	20	0.472	2.5	2523.4	751	901.2	976.3	773.4	936.7	1045.7	1655.6
		711.2	20.638	775.2	9690.3	373.83	422.87	471.92	3413	12	64	344587.2	3340.6	4008.7	4342.8	3440.1	4166.8	4651.3	7364.6
97-1525	O	50	0.472	60.02	180.3	42.66	48.54	54.42	20	0.472	10	4506.9	751.1	901.4	976.5	773.5	936.9	1045.9	1656
		1270	12	1524.5	9692.2	208.27	236.99	265.71	3413	12	254.5	615453.6	3341.3	4009.5	4343.6	3440.7	4167.6	4652.2	7366.1
97-674	O	24	1	26.52	180.5	91.64	103.64	115.64	20	0.472	2.5	2166.1	752.1	902.5	977.7	774.5	938.1	1047.2	1658.1
		609.6	25.4	673.6	9704.7	447.41	506.01	564.6	3413	12	64	295798.7	3345.6	4014.7	4349.2	3445.2	4173	4658.2	7375.6
97-1602	O	56	0.394	63.09	180.6	37.39	42.43	47.48	20	0.472	7.1	5056.7	752.5	903	978.2	774.9	938.6	1047.7	1658.9
		1422.4	10	1602.4	9709.4	182.55	207.17	231.8	3413	12	180	690533	3347.2	4016.6	4351.4	3446.8	4175	4660.5	7379.1
97-1029	O	38	0.562	40.52	180.7	55.06	62.3	69.54	20	0.472	2.5	3433.3	752.9	903.5	978.8	775.3	939.1	1048.3	1659.9
		965.2	14.288	1029.2	9715.1	268.82	304.16	339.51	3413	12	64	468852.5	3349.2	4019	4353.9	3448.9	4177.5	4663.3	7383.5
97-1399	O	48	0.472	55.09	180.8	43.87	49.77	55.68	20	0.472	7.1	4339.3	753.4	904	979.4	775.8	939.7	1048.9	1660.8
		1219.2	12	1399.2	9720.7	214.17	243.01	271.85	3413	12	180	592572.9	3351.1	4021.3	4356.4	3450.8	4179.9	4665.9	7387.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
97-1017	O	30	0.938	40.02	180.8	73.84	83.9	93.95	20	0.472	10	2712.6	753.5	904.2	979.6	775.9	939.9	1049.2	1661.2
		762	23.812	1016.5	9722.6	360.52	409.62	458.71	3413	12	254.5	370432.9	3351.8	4022.1	4357.3	3451.5	4180.7	4666.9	7389.2
97-1385	O	44	0.562	54.51	181.2	49.09	55.87	62.64	20	0.472	10.5	3986	754.9	905.9	981.4	777.4	941.6	1051.1	1664.3
		1117.6	14.288	1384.6	9741	239.67	272.76	305.85	3413	12	267	544327.6	3358.1	4029.7	4365.5	3458.1	4188.6	4675.7	7403.2
97-1524	O	52	0.438	59.99	181.2	40.85	46.42	52	20	0.472	8	4711.5	755	906.1	981.6	777.5	941.8	1051.3	1664.6
		1320.8	11.112	1523.8	9742.5	199.44	226.66	253.89	3413	12	203	643395.5	3358.6	4030.3	4366.2	3458.6	4189.3	4676.4	7404.3
97-1522	O	56	0.375	59.94	181.2	37.06	41.97	46.88	20	0.472	3.9	5074.7	755.2	906.2	981.7	777.6	941.9	1051.5	1664.8
		1422.4	9.525	1522.4	9744	180.93	204.9	228.88	3413	12	100	692991.3	3359.1	4030.9	4366.8	3459.1	4189.9	4677.1	7405.4
98-1474	O	48	0.5	58.02	181.4	44.75	50.91	57.07	20	0.472	10	4352.8	755.7	906.8	982.4	778.2	942.6	1052.2	1666
		1219.2	12.7	1473.7	9750.8	218.48	248.57	278.66	3413	12	254.5	594408	3361.5	4033.8	4369.9	3461.5	4192.8	4680.4	7410.6
98-1014	O	36	0.625	39.94	181.4	58.83	66.6	74.37	20	0.472	3.9	3265.7	755.9	907.1	982.7	778.4	942.9	1052.5	1666.5
		914.4	15.875	1014.4	9754	287.22	325.16	363.11	3413	12	100	445954.3	3362.6	4035.1	4371.4	3462.7	4194.2	4681.9	7413.1
98-826	O	30	0.75	32.52	181.4	71.38	80.74	90.11	20	0.472	2.5	2721.6	756	907.2	982.8	778.5	943	1052.6	1666.6
		762	19.05	826	9754.7	348.49	394.23	439.96	3413	12	64	371653.8	3362.8	4035.4	4371.7	3462.9	4194.5	4682.3	7413.6
98-1016	O	32	0.812	39.99	181.6	68.42	77.67	86.93	20	0.472	8	2906.2	756.8	908.2	983.9	779.4	944	1053.8	1668.5
		812.8	20.638	1015.8	9765.5	334.03	379.23	424.42	3413	12	203	396868.5	3366.5	4039.8	4376.5	3466.7	4199.1	4687.4	7421.8
98-1639	O	54	0.438	64.51	181.9	39.89	45.42	50.94	20	0.472	10.5	4911.3	757.9	909.5	985.3	780.5	945.4	1055.3	1670.9
		1371.6	11.112	1638.6	9779.5	194.75	221.74	248.73	3413	12	267	670676.2	3371.4	4045.6	4382.8	3471.7	4205.2	4694.1	7432.4
98-1067	O	34	0.75	41.99	182.1	64.17	72.87	81.56	20	0.472	8	3095.5	758.7	910.4	986.3	781.3	946.3	1056.4	1672.6
		863.6	19.05	1066.6	9789.7	313.32	355.76	398.2	3413	12	203	422718	3374.9	4049.8	4387.3	3475.3	4209.6	4699	7440.1
98-1232	O	38	0.688	48.51	182.7	57.74	65.68	73.62	20	0.472	10.5	3470.4	761	913.3	989.4	783.7	949.3	1059.7	1677.8
		965.2	17.462	1232.2	9820	281.9	320.66	359.42	3413	12	267	473910.9	3385.3	4062.4	4400.9	3486.1	4222.6	4713.6	7463.2
98-1472	O	54	0.394	57.94	182.7	38.77	43.91	49.04	20	0.472	3.9	4933.1	761.3	913.5	989.7	783.9	949.6	1060	1678.3
		1371.6	10	1471.6	9823	189.3	214.37	239.43	3413	12	100	673662	3386.4	4063.6	4402.3	3487.2	4223.9	4715	7465.5
98-1372	O	44	0.562	54.02	182.8	49.36	56.14	62.92	20	0.472	10	4022.3	761.8	914.2	990.3	784.5	950.2	1060.7	1679.5
		1117.6	14.288	1372.1	9829.8	241	274.11	307.22	3413	12	254.5	549286.5	3388.7	4066.4	4405.3	3489.6	4226.8	4718.3	7470.6
98-1503	O	50	0.472	59.17	182.9	43.1	49.01	54.92	20	0.472	9.2	4571.3	761.9	914.3	990.5	784.6	950.3	1060.8	1679.6
		1270	12	1503	9830.8	210.43	239.29	268.15	3413	12	233	624257.5	3389.1	4066.9	4405.8	3489.9	4227.3	4718.8	7471.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
98-1249	O	40	0.625	49.17	182.9	54.39	61.82	69.25	20	0.472	9.2	3657.3	761.9	914.3	990.5	784.6	950.4	1060.9	1679.8
		1016	15.875	1249	9831.5	265.56	301.83	338.1	3413	12	233	499440.4	3389.3	4067.1	4406.1	3490.2	4227.5	4719.1	7471.9
98-1080	O	32	0.875	42.51	182.9	69.71	79.24	88.78	20	0.472	10.5	2926.9	762.2	914.7	990.9	784.9	950.7	1061.3	1680.4
		812.8	22.225	1079.8	9835.1	340.33	386.9	433.46	3413	12	267	399697.2	3390.5	4068.6	4407.7	3491.4	4229.1	4720.8	7474.7
98-1283	O	48	0.438	50.52	183	43.65	49.39	55.14	20	0.472	2.5	4391.3	762.4	914.8	991.1	785.1	950.9	1061.5	1680.7
		1219.2	11.112	1283.2	9837	213.13	241.17	269.21	3413	12	64	599665.7	3391.2	4069.4	4408.6	3492.1	4229.9	4721.8	7476.1
98-1247	O	42	0.562	49.09	183	51.01	57.87	64.72	20	0.472	7.1	3842.9	762.5	915	991.2	785.2	951.1	1061.7	1681
		1066.8	14.288	1246.8	9838.5	249.08	282.53	315.98	3413	12	180	524785	3391.7	4070	4409.2	3492.7	4230.6	4722.5	7477.3
99-942	O	30	0.875	37.09	183.3	73.54	83.36	93.19	20	0.472	7.1	2749.3	763.7	916.4	992.8	786.4	952.6	1063.3	1683.6
		762	22.225	942	9854.1	359.07	407.02	454.97	3413	12	180	375440.6	3397.1	4076.5	4416.2	3498.2	4237.3	4730	7489.1
99-1626	O	54	0.438	64.02	183.3	40.05	45.57	51.09	20	0.472	10	4949	763.7	916.5	992.9	786.5	952.6	1063.4	1683.7
		1371.6	11.112	1626.1	9854.6	195.53	222.49	249.45	3413	12	254.5	675831.7	3397.3	4076.7	4416.4	3498.4	4237.5	4730.2	7489.5
99-1062	O	30	1	41.81	183.5	75.58	85.94	96.31	20	0.472	11.8	2752.1	764.5	917.4	993.8	787.2	953.5	1064.4	1685.3
		762	25.4	1062	9864	369.02	419.61	470.21	3413	12	300	375820.2	3400.5	4080.6	4420.7	3501.7	4241.5	4734.7	7496.7
99-1621	O	52	0.472	63.81	183.6	42.03	47.89	53.74	20	0.472	11.8	4773.6	765	918	994.5	787.8	954.2	1065.2	1686.5
		1320.8	12	1620.8	9871	205.23	233.81	262.39	3413	12	300	651881.8	3402.9	4083.5	4423.8	3504.2	4244.5	4738.1	7502
99-1218	O	44	0.5	47.94	183.9	48.24	54.62	61	20	0.472	3.9	4046.4	766.4	919.6	996.3	789.2	955.9	1067	1689.5
		1117.6	12.7	1217.6	9888.5	235.53	266.67	297.81	3413	12	100	552567.3	3408.9	4090.7	4431.6	3510.4	4252	4746.5	7515.2
99-1501	O	52	0.438	59.09	184	41.08	46.61	52.14	20	0.472	7.1	4783.7	766.6	919.9	996.6	789.4	956.2	1067.4	1690.1
		1320.8	11.112	1500.8	9891.8	200.56	227.56	254.55	3413	12	180	653255.6	3410.1	4092.1	4433.1	3511.6	4253.5	4748.1	7517.8
99-1094	O	36	0.688	43.09	184	60.43	68.52	76.61	20	0.472	7.1	3312.2	766.7	920.1	996.7	789.5	956.4	1067.6	1690.3
		914.4	17.462	1094.4	9893.2	295.03	334.55	374.07	3413	12	180	452315.4	3410.5	4092.7	4433.7	3512.1	4254.1	4748.7	7518.8
99-1452	O	48	0.5	57.17	184.1	45.24	51.43	57.63	20	0.472	9.2	4417.2	766.9	920.2	996.9	789.7	956.5	1067.8	1690.6
		1219.2	12.7	1452.2	9895.1	220.87	251.12	281.38	3413	12	233	603208.2	3411.2	4093.5	4434.6	3512.8	4254.9	4749.7	7520.3
99-811	O	28	0.875	31.94	184.2	78.79	89.16	99.53	20	0.472	3.9	2579.4	767.7	921.2	998	790.5	957.5	1068.9	1692.4
		711.2	22.225	811.2	9905.4	384.66	435.3	485.93	3413	12	100	352237.4	3414.8	4097.7	4439.2	3516.4	4259.3	4754.6	7528.1
99-914	O	28	1	35.99	184.3	80.75	91.63	102.51	20	0.472	8	2580.6	768	921.6	998.4	790.9	958	1069.4	1693.2
		711.2	25.4	914.2	9910.1	394.27	447.38	500.48	3413	12	203	352403.2	3416.4	4099.7	4441.3	3518.1	4261.3	4756.8	7531.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
99-1220	O	38	0.688	48.02	184.5	58.13	66.09	74.04	20	0.472	10	3505.9	768.8	922.6	999.5	791.7	959	1070.5	1695
		965.2	17.462	1219.7	9920.6	283.83	322.67	361.5	3413	12	254.5	478767.7	3420	4104	4446	3521.8	4265.9	4761.9	7539.6
99-1367	O	42	0.625	53.81	184.6	52.74	60.04	67.34	20	0.472	11.8	3877.6	769.4	923.2	1000.2	792.3	959.6	1071.2	1696.1
		1066.8	15.875	1366.8	9927.3	257.48	293.14	328.79	3413	12	300	529520.8	3422.3	4106.8	4449	3524.2	4268.7	4765.1	7544.7
99-995	O	30	0.938	39.17	184.7	75.18	85.37	95.56	20	0.472	9.2	2771.2	769.8	923.7	1000.7	792.7	960.2	1071.8	1697.1
		762	23.812	995	9932.7	367.08	416.83	466.58	3413	12	233	378437.2	3424.2	4109	4451.4	3526.1	4271.1	4767.7	7548.9
99-1570	O	50	0.5	61.81	185	44.07	50.2	56.32	20	0.472	11.8	4623.9	770.6	924.8	1001.8	793.6	961.2	1073	1698.9
		1270	12.7	1570	9943.8	215.16	245.08	275	3413	12	300	631429.9	3428	4113.6	4456.4	3530	4275.8	4773	7557.3
99-1181	O	36	0.75	46.51	185	61.95	70.45	78.95	20	0.472	10.5	3329.8	770.8	924.9	1002	793.7	961.4	1073.2	1699.2
		914.4	19.05	1181.4	9945.5	302.48	343.96	385.45	3413	12	267	454708	3428.6	4114.3	4457.2	3530.7	4276.6	4773.8	7558.6
99-1116	O	40	0.562	43.94	185.1	53.64	60.73	67.82	20	0.472	3.9	3701.3	771.1	925.3	1002.4	794	961.8	1073.6	1699.9
		1016	14.288	1116	9949.6	261.92	296.51	331.11	3413	12	100	505440	3430	4116	4459	3532.1	4278.3	4775.8	7561.7
99-1131	O	34	0.812	44.51	185.1	65.95	74.98	84.01	20	0.472	10.5	3146.1	771.1	925.3	1002.4	794.1	961.8	1073.7	1700
		863.6	20.638	1130.6	9949.7	322.01	366.1	410.19	3413	12	267	429628.5	3430	4116	4459.1	3532.1	4278.4	4775.9	7561.8
100-1067	O	32	0.875	42.02	185.1	70.3	79.87	89.44	20	0.472	10	2961.2	771.1	925.4	1002.5	794.1	961.9	1073.7	1700
		812.8	22.225	1067.3	9950.3	343.22	389.96	436.71	3413	12	254.5	404378.3	3430.2	4116.3	4459.3	3532.3	4278.6	4776.1	7562.2
100-1486	O	56	0.375	58.52	185.6	37.77	42.74	47.71	20	0.472	2.5	5197.6	773.4	928.1	1005.5	796.5	964.7	1076.9	1705.1
		1422.4	9.525	1486.4	9980	184.43	208.69	232.95	3413	12	64	709775.3	3440.5	4128.6	4472.6	3542.9	4291.4	4790.4	7584.8
100-1351	O	44	0.562	53.17	185.7	49.96	56.79	63.62	20	0.472	9.2	4086.4	773.9	928.7	1006.1	797	965.3	1077.6	1706.2
		1117.6	14.288	1350.6	9986.2	243.93	277.26	310.6	3413	12	233	558030.5	3442.6	4131.2	4475.4	3545.1	4294.1	4793.4	7589.5
100-1605	O	54	0.438	63.17	185.8	40.43	45.97	51.51	20	0.472	9.2	5015.3	774	928.8	1006.2	797	965.4	1077.6	1706.3
		1371.6	11.112	1604.6	9986.7	197.38	224.45	251.52	3413	12	233	684887.2	3442.8	4131.3	4475.6	3545.3	4294.3	4793.6	7589.9
100-964	O	34	0.688	37.94	185.8	64.07	72.52	80.97	20	0.472	3.9	3158.3	774.1	928.9	1006.3	797.1	965.6	1077.8	1706.6
		863.6	17.462	963.6	9988.4	312.84	354.09	395.34	3413	12	100	431298.3	3443.4	4132	4476.4	3545.9	4295	4794.4	7591.2
100-993	O	32	0.812	39.09	185.8	69.4	78.67	87.94	20	0.472	7.1	2973.5	774.4	929.2	1006.7	797.4	965.9	1078.2	1707.1
		812.8	20.638	992.8	9991.7	338.84	384.11	429.37	3413	12	180	406062.7	3444.5	4133.4	4477.9	3547.1	4296.4	4796	7593.7
100-1044	O	34	0.75	41.09	186.1	65.02	73.71	82.41	20	0.472	7.1	3163.7	775.4	930.5	1008	798.5	967.2	1079.7	1709.5
		863.6	19.05	1043.6	10005.4	317.44	359.89	402.34	3413	12	180	432034.3	3449.3	4139.1	4484	3551.9	4302.3	4802.6	7604.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
100-1370	O	50	0.438	53.94	186.2	42.75	48.4	54.05	20	0.472	3.9	4654	775.7	930.8	1008.4	798.8	967.5	1080	1710
		1270	11.112	1370	10008.6	208.71	236.31	263.91	3413	12	100	635543.8	3450.3	4140.4	4485.4	3553	4303.7	4804.1	7606.5
100-1722	O	56	0.438	67.81	186.3	39.5	45	50.5	20	0.472	11.8	5215.4	776.1	931.3	1008.9	799.2	968.1	1080.6	1711
		1422.4	11.112	1722.4	10014.3	192.86	219.72	246.59	3413	12	300	712215.5	3452.3	4142.8	4488	3555.1	4306.1	4806.9	7610.9
100-1473	O	50	0.472	57.99	186.6	43.74	49.7	55.65	20	0.472	8	4664.4	777.4	932.9	1010.6	800.5	969.7	1082.4	1713.9
		1270	12	1473	10031	213.58	242.65	271.72	3413	12	203	636971.5	3458.1	4149.7	4495.5	3561	4313.4	4814.9	7623.6
101-1169	O	36	0.75	46.02	187	62.41	70.93	79.45	20	0.472	10	3365.4	779	934.8	1012.7	802.2	971.7	1084.7	1717.4
		914.4	19.05	1168.9	10051.8	304.71	346.31	387.9	3413	12	254.5	459570.5	3465.3	4158.3	4504.8	3568.4	4322.3	4824.9	7639.4
101-1118	O	34	0.812	44.02	187.1	66.48	75.54	84.6	20	0.472	10	3181.3	779.7	935.7	1013.6	802.9	972.6	1085.7	1719
		863.6	20.638	1118.1	10060.9	324.56	368.8	413.03	3413	12	254.5	434431.6	3468.4	4162.1	4508.9	3571.6	4326.2	4829.3	7646.3
101-862	O	30	0.812	33.94	187.2	74.08	83.84	93.59	20	0.472	3.9	2807.5	779.9	935.8	1013.8	803.1	972.7	1085.8	1719.3
		762	20.638	862	10062.7	361.71	409.32	456.93	3413	12	100	383387.5	3469	4162.8	4509.7	3572.2	4326.9	4830.1	7647.6
101-1436	O	54	0.394	56.52	187.3	39.56	44.76	49.96	20	0.472	2.5	5056.8	780.4	936.4	1014.5	803.6	973.4	1086.6	1720.4
		1371.6	10	1435.6	10069.3	193.13	218.52	243.91	3413	12	64	690555.2	3471.3	4165.5	4512.7	3574.6	4329.8	4833.3	7652.7
101-1219	O	40	0.625	47.99	187.4	55.45	62.97	70.49	20	0.472	8	3747.3	780.7	936.8	1014.9	803.9	973.8	1087	1721.1
		1016	15.875	1219	10073.5	270.72	307.43	344.14	3413	12	203	511731.7	3472.7	4167.2	4514.5	3576.1	4331.6	4835.3	7655.8
101-1588	O	52	0.472	62.51	187.4	42.66	48.55	54.44	20	0.472	10.5	4872.8	780.9	937.1	1015.2	804.2	974	1087.3	1721.6
		1320.8	12	1587.8	10076.2	208.27	237.04	265.81	3413	12	267	665430.2	3473.6	4168.4	4515.7	3577	4332.8	4836.6	7657.9
101-913	O	32	0.75	35.94	187.7	69.17	78.28	87.39	20	0.472	3.9	3003	782	938.4	1016.7	805.3	975.5	1088.9	1724.1
		812.8	19.05	912.8	10090.8	337.71	382.19	426.67	3413	12	100	410090.9	3478.7	4174.4	4522.3	3582.2	4339.1	4843.6	7669
101-1198	O	38	0.688	47.17	187.8	58.97	66.99	75.02	20	0.472	9.2	3568.9	782.6	939.2	1017.4	805.9	976.2	1089.7	1725.4
		965.2	17.462	1198.2	10098.6	287.9	327.09	366.29	3413	12	233	487358.5	3481.4	4177.6	4525.8	3585	4342.4	4847.3	7674.9
101-1422	O	48	0.5	55.99	187.9	45.95	52.2	58.45	20	0.472	8	4510.4	783.1	939.7	1018	806.4	976.7	1090.3	1726.3
		1219.2	12.7	1422.2	10103.9	224.35	254.85	285.35	3413	12	203	615932.4	3483.2	4179.8	4528.1	3586.9	4344.7	4849.9	7678.9
101-978	O	36	0.625	38.52	188.1	60.72	68.68	76.65	20	0.472	2.5	3385.8	783.8	940.5	1018.9	807.1	977.6	1091.3	1727.8
		914.4	15.875	978.4	10112.9	296.44	335.34	374.23	3413	12	64	462363	3486.3	4183.6	4532.2	3590.1	4348.6	4854.2	7685.8
102-1046	O	32	0.875	41.17	188.9	71.5	81.19	90.88	20	0.472	9.2	3022.1	787	944.4	1023.1	810.4	981.6	1095.8	1735
		812.8	22.225	1045.8	10154.8	349.11	396.42	443.73	3413	12	233	412691.7	3500.8	4200.9	4551	3605	4366.6	4874.3	7717.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
102-1575	O	52	0.472	62.02	188.9	42.84	48.73	54.62	20	0.472	10	4911.5	787.1	944.5	1023.2	810.5	981.8	1095.9	1735.2
		1320.8	12	1575.3	10156.1	209.18	237.93	266.68	3413	12	254.5	670710.3	3501.2	4201.4	4551.6	3605.4	4367.1	4874.9	7718.7
102-1537	O	50	0.5	60.51	188.9	44.76	50.93	57.1	20	0.472	10.5	4723.1	787.2	944.6	1023.3	810.6	981.9	1096.1	1735.4
		1270	12.7	1537	10157.3	218.52	248.66	278.8	3413	12	267	644987	3501.6	4201.9	4552.1	3605.8	4367.6	4875.5	7719.5
102-1113	O	32	0.938	43.81	189.1	72.41	82.34	92.26	20	0.472	11.8	3025.1	787.8	945.3	1024.1	811.2	982.6	1096.9	1736.7
		812.8	23.812	1112.8	10164.8	353.56	402.02	450.48	3413	12	300	413098.5	3504.2	4205	4555.5	3608.5	4370.9	4879.1	7725.3
102-891	O	28	1	35.09	189.1	82.17	93.1	104.04	20	0.472	7.1	2647.2	787.9	945.4	1024.2	811.3	982.7	1097	1736.9
		711.2	25.4	891.2	10165.9	401.18	454.57	507.96	3413	12	180	361498	3504.6	4205.5	4555.9	3608.9	4371.3	4879.6	7726.1
102-1334	O	42	0.625	52.51	189.2	53.74	61.13	68.51	20	0.472	10.5	3973.5	788.4	946.1	1024.9	811.9	983.4	1097.7	1738.1
		1066.8	15.875	1333.8	10172.9	262.4	298.46	334.51	3413	12	267	542621.8	3507	4208.4	4559.1	3611.4	4374.3	4883	7731.4
102-1575	O	54	0.438	61.99	189.3	40.98	46.56	52.13	20	0.472	8	5110.9	788.7	946.5	1025.3	812.2	983.8	1098.2	1738.8
		1371.6	11.112	1574.6	10177	200.08	227.31	254.54	3413	12	203	697936	3508.4	4210.1	4560.9	3612.8	4376.1	4884.9	7734.5
102-1029	O	30	1	40.51	189.4	77.62	88.19	98.75	20	0.472	10.5	2840.3	789	946.8	1025.7	812.5	984.1	1098.5	1739.4
		762	25.4	1029	10180.4	378.98	430.57	482.16	3413	12	267	387872.7	3509.6	4211.5	4562.4	3614	4377.6	4886.6	7737.1
102-1182	O	44	0.5	46.52	189.5	49.48	55.98	62.48	20	0.472	2.5	4169.6	789.7	947.6	1026.6	813.2	985	1099.6	1741
		1117.6	12.7	1181.6	10189.7	241.59	273.31	305.03	3413	12	64	569402.5	3512.8	4215.3	4566.6	3617.4	4381.6	4891.1	7744.2
102-1450	O	50	0.472	57.09	189.5	44.03	49.94	55.85	20	0.472	7.1	4738.4	789.7	947.7	1026.7	813.2	985.1	1099.6	1741
		1270	12	1450	10190.2	214.96	243.83	272.69	3413	12	180	647075.2	3512.9	4215.5	4566.8	3617.5	4381.8	4891.3	7744.5
102-1689	O	56	0.438	66.51	189.9	40.04	45.57	51.1	20	0.472	10.5	5317.3	791.3	949.5	1028.6	814.8	987	1101.7	1744.4
		1422.4	11.112	1689.4	10209.9	195.48	222.49	249.5	3413	12	267	726127.6	3519.7	4223.7	4575.7	3624.5	4390.3	4900.7	7759.5
102-1321	O	44	0.562	51.99	190	50.84	57.73	64.63	20	0.472	8	4179.2	791.5	949.8	1029	815.1	987.3	1102.1	1745
		1117.6	14.288	1320.6	10213.1	248.2	281.87	315.54	3413	12	203	570707.3	3520.8	4225	4577.1	3625.6	4391.6	4902.3	7761.9
102-1316	O	40	0.688	51.81	190	57.09	64.96	72.83	20	0.472	11.8	3800.3	791.7	950.1	1029.2	815.3	987.5	1102.4	1745.4
		1016	17.462	1316	10215.8	278.72	317.16	355.61	3413	12	300	518962.8	3521.8	4226.1	4578.3	3626.6	4392.8	4903.6	7764
102-1522	O	56	0.394	59.94	190.1	38.83	43.96	49.09	20	0.472	3.9	5322.4	792	950.4	1029.6	815.6	987.9	1102.8	1746.1
		1422.4	10	1522.4	10219.6	189.56	214.62	239.67	3413	12	100	726819.5	3523.1	4227.7	4580	3628	4394.4	4905.4	7766.9
102-1147	O	36	0.75	45.17	190.5	63.36	71.97	80.57	20	0.472	9.2	3428.4	793.6	952.3	1031.7	817.2	989.9	1105	1749.6
		914.4	19.05	1147.4	10240.2	309.35	351.37	393.39	3413	12	233	468182	3530.2	4236.2	4589.2	3635.3	4403.3	4915.3	7782.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
102-1525	O	50	0.5	60.02	190.5	44.97	51.14	57.31	20	0.472	10	4761.9	793.6	952.4	1031.7	817.3	989.9	1105	1749.6
		1270	12.7	1524.5	10240.6	219.55	249.68	279.81	3413	12	254.5	650275.5	3530.3	4236.4	4589.4	3635.4	4403.4	4915.5	7782.8
102-965	O	30	0.938	37.99	190.5	77.17	87.55	97.94	20	0.472	8	2857.4	793.7	952.5	1031.8	817.3	990	1105.1	1749.8
		762	23.812	965	10241.5	376.76	427.48	478.19	3413	12	203	390202.1	3530.6	4236.8	4589.8	3635.7	4403.9	4915.9	7783.6
103-1097	O	34	0.812	43.17	190.8	67.55	76.71	85.87	20	0.472	9.2	3243.6	795	954	1033.5	818.7	991.6	1106.9	1752.7
		863.6	20.638	1096.6	10258.2	329.81	374.54	419.27	3413	12	233	442949.1	3536.4	4243.7	4597.3	3641.7	4411	4923.9	7796.2
103-1196	O	40	0.625	47.09	191	56.02	63.51	71.01	20	0.472	7.1	3819.4	795.7	954.8	1034.4	819.4	992.5	1107.9	1754.2
		1016	15.875	1196	10267.2	273.5	310.1	346.71	3413	12	180	521572.7	3539.5	4247.4	4601.3	3644.8	4414.9	4928.2	7803.1
103-1321	O	42	0.625	52.02	191	54.07	61.46	68.86	20	0.472	10	4011.1	795.9	955	1034.6	819.6	992.7	1108.1	1754.5
		1066.8	15.875	1321.3	10269.1	264	300.1	336.2	3413	12	254.5	547755.2	3540.2	4248.2	4602.2	3645.5	4415.7	4929.2	7804.5
103-1399	O	48	0.5	55.09	191	46.28	52.49	58.7	20	0.472	7.1	4584.5	795.9	955.1	1034.7	819.6	992.8	1108.2	1754.7
		1219.2	12.7	1399.2	10270	225.96	256.27	286.58	3413	12	180	626057	3540.4	4248.5	4602.6	3645.8	4416.1	4929.6	7805.2
103-1334	O	50	0.438	52.52	191.2	43.7	49.44	55.18	20	0.472	2.5	4779.6	796.6	955.9	1035.6	820.3	993.6	1109.2	1756.2
		1270	11.112	1334	10278.7	213.36	241.38	269.39	3413	12	64	652694.9	3543.4	4252.1	4606.5	3648.9	4419.8	4933.8	7811.8
103-1080	O	40	0.562	42.52	191.2	55.18	62.42	69.66	20	0.472	2.5	3824.6	796.8	956.2	1035.8	820.5	993.9	1109.4	1756.6
		1016	14.288	1080	10281.3	269.43	304.77	340.12	3413	12	64	522288	3544.3	4253.2	4607.6	3649.8	4420.9	4935	7813.8
103-1677	O	56	0.438	66.02	191.3	40.19	45.72	51.24	20	0.472	10	5357	797.2	956.6	1036.3	820.9	994.3	1109.9	1757.4
		1422.4	11.112	1676.9	10286	196.24	223.22	250.19	3413	12	254.5	731540.3	3546	4255.2	4609.8	3651.5	4423	4937.3	7817.4
103-1554	O	52	0.472	61.17	191.5	43.28	49.19	55.11	20	0.472	9.2	4979.5	798	957.6	1037.4	821.7	995.4	1111.1	1759.2
		1320.8	12	1553.8	10296.7	211.29	240.17	269.06	3413	12	233	679991	3549.6	4259.6	4614.5	3655.3	4427.6	4942.4	7825.5
103-1017	O	30	1	40.02	191.7	78.34	88.96	99.57	20	0.472	10	2875.3	798.7	958.4	1038.3	822.5	996.2	1112.1	1760.8
		762	25.4	1016.5	10305.6	382.48	434.33	486.17	3413	12	254.5	392642.4	3552.7	4263.3	4618.5	3658.5	4431.4	4946.7	7832.2
103-1319	O	48	0.472	51.94	191.8	45.92	51.98	58.04	20	0.472	3.9	4602.5	799	958.8	1038.8	822.8	996.7	1112.6	1761.5
		1219.2	12	1319.2	10310.2	224.18	253.77	283.37	3413	12	100	628508.2	3554.3	4265.2	4620.6	3660.1	4433.4	4948.9	7835.7
103-1552	O	54	0.438	61.09	192.1	41.2	46.74	52.27	20	0.472	7.1	5186.6	800.4	960.5	1040.5	824.2	998.4	1114.5	1764.6
		1371.6	11.112	1551.6	10327.8	201.17	228.18	255.19	3413	12	180	708281.8	3560.4	4272.5	4628.5	3666.4	4441	4957.4	7849.1
103-1672	O	54	0.472	65.81	192.2	42.23	48.09	53.95	20	0.472	11.8	5188.7	800.7	960.9	1040.9	824.6	998.8	1114.9	1765.3
		1371.6	12	1671.6	10331.9	206.18	234.8	263.41	3413	12	300	708560.7	3561.8	4274.1	4630.3	3667.8	4442.7	4959.3	7852.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
104-1164	O	34	0.875	45.81	192.6	68.95	78.4	87.85	20	0.472	11.8	3273.8	802.4	962.9	1043.1	826.3	1000.9	1117.2	1768.9
		863.6	22.225	1163.6	10353.5	336.63	382.78	428.94	3413	12	300	447064.3	3569.2	4283.1	4640	3675.5	4452	4969.7	7868.7
104-1168	O	38	0.688	45.99	192.7	60.19	68.32	76.46	20	0.472	8	3660.5	802.7	963.3	1043.6	826.6	1001.3	1117.7	1769.7
		965.2	17.462	1168.2	10357.9	293.86	333.58	373.31	3413	12	203	499874.2	3570.8	4284.9	4642	3677.1	4453.9	4971.8	7872
104-775	O	28	0.875	30.52	192.8	82.1	92.83	103.57	20	0.472	2.5	2699.2	803.3	964	1044.3	827.2	1002	1118.5	1771
		711.2	22.225	775.2	10365.4	400.83	453.25	505.67	3413	12	64	368595.2	3573.4	4288	4645.4	3679.7	4457.1	4975.4	7877.7
104-928	O	34	0.688	36.52	193	66.27	74.95	83.63	20	0.472	2.5	3280.9	804.1	965	1045.4	828.1	1003	1119.7	1772.8
		863.6	17.462	927.6	10376	323.56	365.94	408.32	3413	12	64	448036.9	3577	4292.4	4650.1	3683.5	4461.7	4980.5	7885.8
104-1065	O	38	0.625	41.94	193	59.08	66.86	74.65	20	0.472	3.9	3667.7	804.3	965.2	1045.6	828.3	1003.2	1119.9	1773.2
		965.2	15.875	1065.2	10378.2	288.46	326.46	364.46	3413	12	100	500851.5	3577.8	4293.3	4651.1	3684.3	4462.6	4981.5	7887.4
104-1265	O	38	0.75	49.81	193.1	61.25	69.68	78.1	20	0.472	11.8	3668.9	804.6	965.5	1045.9	828.5	1003.6	1120.3	1773.7
		965.2	19.05	1265.2	10381.6	299.06	340.2	381.33	3413	12	300	501016.4	3578.9	4294.7	4652.6	3685.5	4464.1	4983.2	7890
104-1503	O	50	0.5	59.17	193.2	45.44	51.65	57.85	20	0.472	9.2	4830	805	966	1046.5	829	1004.1	1120.8	1774.7
		1270	12.7	1503	10387	221.87	252.16	282.45	3413	12	233	659577.5	3580.8	4297	4655	3687.4	4466.4	4985.8	7894.2
104-1298	O	44	0.562	51.09	193.3	51.28	58.14	65.01	20	0.472	7.1	4253.3	805.5	966.7	1047.2	829.5	1004.8	1121.6	1775.9
		1117.6	14.288	1297.6	10394.1	250.36	283.88	317.4	3413	12	180	580823.1	3583.2	4299.9	4658.2	3689.9	4469.5	4989.2	7899.5
104-1655	O	56	0.438	65.17	193.8	40.56	46.11	51.66	20	0.472	9.2	5426.5	807.5	969	1049.8	831.6	1007.2	1124.4	1780.2
		1422.4	11.112	1655.4	10419.6	198.05	225.13	252.21	3413	12	233	741041.4	3592	4310.4	4669.6	3699	4480.4	5001.4	7918.9
104-1214	O	36	0.812	47.81	193.9	65.22	74.17	83.12	20	0.472	11.8	3490.9	808.1	969.7	1050.5	832.1	1007.9	1125.1	1781.5
		914.4	20.638	1214.4	10426.7	318.41	362.12	405.83	3413	12	300	476708.7	3594.5	4313.4	4672.8	3701.5	4483.5	5004.8	7924.3
104-1621	O	52	0.5	63.81	194	44.3	50.43	56.57	20	0.472	11.8	5044	808.3	970	1050.8	832.4	1008.3	1125.5	1782
		1320.8	12.7	1620.8	10430.2	216.27	246.23	276.19	3413	12	300	688808	3595.7	4314.8	4674.4	3702.7	4485	5006.5	7926.9
104-1300	O	42	0.625	51.17	194.2	54.77	62.22	69.68	20	0.472	9.2	4077.5	809	970.8	1051.7	833.1	1009.1	1126.5	1783.6
		1066.8	15.875	1299.8	10439	267.42	303.81	340.19	3413	12	233	556815.7	3598.7	4318.5	4678.3	3705.8	4488.8	5010.7	7933.6
104-1421	O	52	0.438	55.94	194.3	42.82	48.48	54.13	20	0.472	3.9	5053	809.8	971.7	1052.7	833.9	1010.1	1127.5	1785.2
		1320.8	11.112	1420.8	10448.8	209.09	236.68	264.27	3413	12	100	690038	3602.1	4322.5	4682.7	3709.3	4493	5015.4	7941.1
105-1016	O	32	0.875	39.99	194.5	73.28	83.14	93.01	20	0.472	8	3111.3	810.2	972.3	1053.3	834.4	1010.6	1128.2	1786.2
		812.8	22.225	1015.8	10454.7	357.77	405.93	454.09	3413	12	203	424879.9	3604.1	4325	4685.4	3711.4	4495.5	5018.3	7945.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
105-1486	O	56	0.394	58.52	194.7	39.58	44.78	49.98	20	0.472	2.5	5451.3	811.2	973.4	1054.6	835.4	1011.8	1129.5	1788.4
		1422.4	10	1486.4	10467.1	193.27	218.64	244.01	3413	12	64	744422.8	3608.4	4330.1	4690.9	3715.8	4500.9	5024.2	7955
105-1080	O	32	0.938	42.51	194.8	74.26	84.37	94.47	20	0.472	10.5	3117.5	811.9	974.2	1055.4	836	1012.6	1130.4	1789.8
		812.8	23.812	1079.8	10475.5	362.57	411.92	461.26	3413	12	267	425723.3	3611.3	4333.5	4694.7	3718.8	4504.5	5028.2	7961.4
105-1283	O	40	0.688	50.51	194.9	58.25	66.22	74.19	20	0.472	10.5	3898	812.1	974.5	1055.7	836.3	1012.9	1130.7	1790.3
		1016	17.462	1283	10478.6	284.38	323.31	362.24	3413	12	267	532311	3612.4	4334.8	4696.1	3719.9	4505.8	5029.7	7963.7
105-942	O	30	0.938	37.09	195.1	78.42	88.85	99.28	20	0.472	7.1	2927.2	813.1	975.7	1057	837.3	1014.2	1132.1	1792.5
		762	23.812	942	10491.6	382.87	433.8	484.73	3413	12	180	399729.3	3616.8	4340.2	4701.9	3724.5	4511.4	5036	7973.6
105-1524	O	52	0.472	59.99	195.3	43.9	49.86	55.82	20	0.472	8	5077.5	813.7	976.4	1057.8	837.9	1015	1133	1793.9
		1320.8	12	1523.8	10499.4	214.35	243.44	272.53	3413	12	203	693378.4	3619.5	4343.4	4705.4	3727.3	4514.7	5039.7	7979.5
105-826	O	30	0.812	32.52	195.3	76.99	87.05	97.12	20	0.472	2.5	2929.8	813.8	976.6	1058	838.1	1015.1	1133.2	1794.2
		762	20.638	826	10501.2	375.88	425.04	474.2	3413	12	64	400096.9	3620.2	4344.2	4706.2	3727.9	4515.5	5040.6	7980.9
105-877	O	32	0.75	34.52	195.4	71.7	81.08	90.47	20	0.472	2.5	3126.3	814.1	977	1058.4	838.4	1015.5	1133.6	1794.9
		812.8	19.05	876.8	10505.1	350.08	395.88	441.69	3413	12	64	426928.6	3621.5	4345.8	4708	3729.3	4517.2	5042.5	7983.9
105-1167	O	42	0.562	45.94	195.5	53.82	60.91	68.01	20	0.472	3.9	4106.4	814.8	977.7	1059.2	839	1016.3	1134.4	1796.2
		1066.8	14.288	1166.8	10513.1	262.79	297.41	332.03	3413	12	100	560766.2	3624.2	4349.1	4711.5	3732.1	4520.6	5046.3	7989.9
105-1117	O	36	0.75	43.99	195.6	64.76	73.49	82.23	20	0.472	8	3520.5	814.9	977.9	1059.4	839.2	1016.5	1134.7	1796.6
		914.4	19.05	1117.4	10515.1	316.16	358.81	401.46	3413	12	203	480751.7	3625	4350	4712.5	3732.9	4521.5	5047.3	7991.5
105-1418	O	44	0.625	55.81	195.8	53.15	60.47	67.8	20	0.472	11.8	4307.3	815.8	978.9	1060.5	840.1	1017.5	1135.9	1798.5
		1117.6	15.875	1417.6	10526.2	259.48	295.26	331.04	3413	12	300	588206.1	3628.8	4354.5	4717.4	3736.8	4526.3	5052.6	7999.9
105-995	O	30	1	39.17	195.8	79.78	90.54	101.31	20	0.472	9.2	2937.4	815.9	979.1	1060.7	840.2	1017.7	1136.1	1798.8
		762	25.4	995	10528.3	389.52	442.07	494.62	3413	12	233	401126.6	3629.5	4355.4	4718.3	3737.5	4527.2	5053.6	8001.5
105-1639	O	54	0.472	64.51	196	42.84	48.74	54.63	20	0.472	10.5	5293.2	816.8	980.2	1061.9	841.2	1018.9	1137.3	1800.8
		1371.6	12	1638.6	10540	209.16	237.95	266.75	3413	12	267	722830.5	3633.5	4360.2	4723.6	3741.7	4532.2	5059.2	8010.4
105-811	O	28	0.938	31.94	196.1	84.05	95.07	106.1	20	0.472	3.9	2745	817	980.4	1062.1	841.3	1019	1137.5	1801.1
		711.2	23.812	811.2	10541.5	410.34	464.19	518.03	3413	12	100	374854.5	3634	4360.8	4724.3	3742.2	4532.8	5059.9	8011.5
105-1067	O	34	0.812	41.99	196.2	69.13	78.44	87.75	20	0.472	8	3334.9	817.4	980.8	1062.6	841.7	1019.5	1138.1	1802
		863.6	20.638	1066.6	10546.7	337.52	382.98	428.45	3413	12	203	455407.8	3635.9	4363	4726.6	3744.1	4535.1	5062.4	8015.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
106-1176	O	34.5	0.875	46.31	196.4	69.17	78.64	88.12	20	0.472	11.8	3387.2	818.2	981.8	1063.6	842.5	1020.5	1139.2	1803.7
		876.3	22.225	1176.3	10557.1	337.73	383.98	430.23	3413	12	300	462557.3	3639.4	4367.3	4731.2	3747.8	4539.5	5067.4	8023.4
106-1145	O	38	0.688	45.09	196.5	60.88	69	77.13	20	0.472	7.1	3734	818.9	982.6	1064.5	843.2	1021.4	1140.2	1805.2
		965.2	17.462	1145.2	10566	297.22	336.9	376.58	3413	12	180	509913.6	3642.5	4371	4735.2	3750.9	4543.4	5071.7	8030.1
106-1271	O	40	0.688	50.02	196.8	58.63	66.62	74.61	20	0.472	10	3936.4	820.1	984.1	1066.1	844.5	1022.9	1141.8	1807.9
		1016	17.462	1270.5	10581.7	286.25	325.26	364.27	3413	12	254.5	537548.2	3647.9	4377.5	4742.3	3756.5	4550.1	5079.2	8042.1
106-1067	O	32	0.938	42.02	197.1	74.91	85.06	95.21	20	0.472	10	3154	821.4	985.6	1067.8	845.8	1024.5	1143.6	1810.7
		812.8	23.812	1067.3	10598.2	365.72	415.28	464.83	3413	12	254.5	430709.3	3653.6	4384.3	4749.7	3762.3	4557.2	5087.1	8054.6
106-1473	O	50	0.5	57.99	197.1	46.14	52.39	58.64	20	0.472	8	4928.4	821.4	985.7	1067.8	845.8	1024.5	1143.7	1810.8
		1270	12.7	1473	10598.6	225.26	255.79	286.31	3413	12	203	673010.9	3653.7	4384.5	4749.9	3762.5	4557.4	5087.3	8054.9
106-1283	O	48	0.472	50.52	197.1	46.99	53.16	59.32	20	0.472	2.5	4731.6	821.5	985.7	1067.9	845.9	1024.6	1143.8	1811
		1219.2	12	1283.2	10599.4	229.45	259.53	289.61	3413	12	64	646140.9	3654	4384.8	4750.2	3762.8	4557.8	5087.7	8055.6
106-1519	O	48	0.562	59.81	197.2	48.86	55.61	62.35	20	0.472	11.8	4731.6	821.5	985.8	1067.9	845.9	1024.6	1143.8	1811
		1219.2	14.288	1519.2	10599.5	238.56	271.5	304.44	3413	12	300	646143.4	3654	4384.8	4750.2	3762.8	4557.8	5087.7	8055.6
106-1625	O	56	0.438	63.99	197.4	41.1	46.68	52.26	20	0.472	8	5526.7	822.4	986.9	1069.2	846.9	1025.8	1145.1	1813.1
		1422.4	11.112	1625.4	10611.9	200.68	227.91	255.15	3413	12	203	754718.8	3658.3	4390	4755.8	3767.2	4563.1	5093.7	8065
106-1626	O	54	0.472	64.02	197.6	43.02	48.91	54.81	20	0.472	10	5333.9	823.1	987.8	1070.1	847.6	1026.7	1146.1	1814.6
		1371.6	12	1626.1	10621	210.05	238.82	267.6	3413	12	254.5	728386.9	3661.5	4393.7	4759.9	3770.4	4567	5098.1	8071.9
106-1588	O	52	0.5	62.51	198	44.97	51.15	57.33	20	0.472	10.5	5148.9	825.1	990.2	1072.7	849.7	1029.2	1148.9	1819.1
		1320.8	12.7	1587.8	10646.9	219.55	249.73	279.9	3413	12	267	703123.8	3670.4	4404.5	4771.5	3779.7	4578.2	5110.5	8091.7
107-1131	O	34	0.875	44.51	198.2	70.61	80.22	89.83	20	0.472	10.5	3369.3	825.8	991	1073.6	850.4	1030.1	1149.8	1820.6
		863.6	22.225	1130.6	10655.7	344.74	391.68	438.61	3413	12	267	460113.2	3673.4	4408.1	4775.4	3782.8	4582	5114.7	8098.3
107-1232	O	38	0.75	48.51	198.3	62.57	71.12	79.66	20	0.472	10.5	3767.1	826.1	991.3	1074	850.7	1030.4	1150.3	1821.3
		965.2	19.05	1232.2	10659.6	305.5	347.22	388.93	3413	12	267	514434.3	3674.8	4409.7	4777.2	3784.2	4583.6	5116.6	8101.3
107-1501	O	52	0.472	59.09	198.3	44.18	50.1	56.01	20	0.472	7.1	5155.3	826.2	991.4	1074	850.8	1030.5	1150.3	1821.4
		1320.8	12	1500.8	10660.3	215.7	244.59	273.48	3413	12	180	704004.5	3675	4410	4777.5	3784.4	4583.9	5116.9	8101.8
107-1014	O	36	0.688	39.94	198.5	64.4	72.87	81.33	20	0.472	3.9	3573.5	827.2	992.6	1075.3	851.8	1031.8	1151.7	1823.6
		914.4	17.462	1014.4	10673.4	314.42	355.77	397.11	3413	12	100	487987	3679.5	4415.4	4783.4	3789.1	4589.6	5123.2	8111.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
107-1270	O	42	0.625	49.99	198.8	55.8	63.33	70.87	20	0.472	8	4173.8	828.1	993.8	1076.6	852.8	1033	1153.1	1825.7
		1066.8	15.875	1269.8	10685.6	272.42	309.23	346.03	3413	12	203	569970.9	3683.7	4420.5	4788.9	3793.4	4594.8	5129.1	8121.1
107-993	O	32	0.875	39.09	199	74.38	84.27	94.16	20	0.472	7.1	3183.4	829	994.8	1077.7	853.7	1034	1154.3	1827.6
		812.8	22.225	992.8	10696.9	363.13	411.43	459.74	3413	12	180	434723	3687.6	4425.2	4793.9	3797.4	4599.7	5134.5	8129.7
107-1181	O	36	0.812	46.51	199.4	66.7	75.79	84.88	20	0.472	10.5	3588.4	830.6	996.8	1079.8	855.4	1036.1	1156.6	1831.2
		914.4	20.638	1181.4	10717.9	325.67	370.05	414.44	3413	12	267	490024.5	3694.9	4433.9	4803.3	3804.9	4608.7	5144.6	8145.6
107-1385	O	52	0.438	54.52	199.4	43.74	49.48	55.21	20	0.472	2.5	5184.4	830.8	997	1080.1	855.6	1036.3	1156.8	1831.6
		1320.8	11.112	1384.8	10720.4	213.58	241.57	269.56	3413	12	64	707976.6	3695.7	4434.9	4804.5	3805.7	4609.8	5145.8	8147.5
107-1575	O	52	0.5	62.02	199.6	45.17	51.35	57.53	20	0.472	10	5189.7	831.7	998	1081.2	856.4	1037.4	1158	1833.5
		1320.8	12.7	1575.3	10731.4	220.55	250.72	280.89	3413	12	254.5	708703.1	3699.5	4439.4	4809.4	3809.7	4614.5	5151.1	8155.9
107-1094	O	36	0.75	43.09	199.7	65.57	74.31	83.05	20	0.472	7.1	3594.5	832.1	998.5	1081.7	856.8	1037.8	1158.5	1834.3
		914.4	19.05	1094.4	10736.1	320.15	362.81	405.47	3413	12	180	490855.3	3701.1	4441.4	4811.5	3811.3	4616.5	5153.3	8159.4
107-1029	O	38	0.625	40.52	199.8	60.89	68.85	76.82	20	0.472	2.5	3795.9	832.4	998.9	1082.2	857.2	1038.3	1159.1	1835.2
		965.2	15.875	1029.2	10741.2	297.27	336.18	375.08	3413	12	64	518370.6	3702.9	4443.5	4813.8	3813.1	4618.7	5155.8	8163.3
108-1605	O	54	0.472	63.17	200.2	43.44	49.36	55.28	20	0.472	9.2	5405.3	834.2	1001	1084.4	859	1040.5	1161.4	1839
		1371.6	12	1604.6	10763.3	212.1	241	269.91	3413	12	233	738146.6	3710.5	4452.6	4823.7	3821	4628.2	5166.4	8180.1
108-1249	O	40	0.688	49.17	200.2	59.44	67.5	75.56	20	0.472	9.2	4004.1	834.2	1001	1084.5	859	1040.5	1161.5	1839
		1016	17.462	1249	10763.8	290.2	329.55	368.9	3413	12	233	546801.4	3710.7	4452.8	4823.9	3821.2	4628.4	5166.6	8180.5
108-1602	O	56	0.438	63.09	200.2	41.32	46.86	52.39	20	0.472	7.1	5606	834.2	1001.1	1084.5	859.1	1040.6	1161.5	1839.1
		1422.4	11.112	1602.4	10764.2	201.75	228.77	255.79	3413	12	180	765551.7	3710.8	4453	4824.1	3821.3	4628.6	5166.8	8180.8
108-1450	O	50	0.5	57.09	200.3	46.46	52.67	58.89	20	0.472	7.1	5006.5	834.4	1001.3	1084.7	859.3	1040.8	1161.8	1839.5
		1270	12.7	1450	10766.7	226.82	257.17	287.52	3413	12	180	683686.2	3711.7	4454	4825.2	3822.2	4629.7	5168	8182.7
108-862	O	30	0.875	33.94	200.3	79.43	89.86	100.28	20	0.472	3.9	3004.4	834.6	1001.5	1084.9	859.4	1041	1162	1839.9
		762	22.225	862	10768.6	387.83	438.72	489.6	3413	12	100	410284.2	3712.4	4454.8	4826.1	3822.9	4630.5	5168.9	8184.1
108-1220	O	38	0.75	48.02	200.3	63.02	71.58	80.15	20	0.472	10	3805.7	834.6	1001.5	1085	859.4	1041	1162.1	1839.9
		965.2	19.05	1219.7	10768.9	307.68	349.49	391.31	3413	12	254.5	519706.5	3712.4	4454.9	4826.2	3823	4630.6	5169.1	8184.4
108-1118	O	34	0.875	44.02	200.4	71.18	80.83	90.48	20	0.472	10	3407	835.1	1002.1	1085.6	859.9	1041.6	1162.7	1840.9
		863.6	22.225	1118.1	10774.8	347.55	394.66	441.77	3413	12	254.5	465257.1	3714.5	4457.4	4828.8	3825.1	4633.2	5171.9	8188.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
108-1385	O	44	0.625	54.51	200.5	54.13	61.53	68.94	20	0.472	10.5	4410	835.2	1002.3	1085.8	860.1	1041.8	1162.9	1841.3
		1117.6	15.875	1384.6	10777.1	264.26	300.43	336.6	3413	12	267	602225.2	3715.3	4458.3	4829.9	3825.9	4634.2	5173	8190.6
108-1113	O	32	1	43.81	200.5	76.82	87.29	97.77	20	0.472	11.8	3207.7	835.3	1002.4	1085.9	860.2	1041.9	1163.1	1841.6
		812.8	25.4	1112.8	10778.6	375.05	426.2	477.34	3413	12	300	438041	3715.8	4458.9	4830.5	3826.4	4634.8	5173.7	8191.7
108-1044	O	34	0.812	41.09	200.5	70.08	79.41	88.74	20	0.472	7.1	3408.4	835.4	1002.5	1086	860.3	1042	1163.2	1841.7
		863.6	20.638	1043.6	10779.2	342.17	387.71	433.25	3413	12	180	465444.6	3716	4459.2	4830.8	3826.6	4635	5174	8192.2
108-1370	O	50	0.472	53.94	200.6	46.01	52.07	58.13	20	0.472	3.9	5015.1	835.9	1003	1086.6	860.7	1042.6	1163.8	1842.7
		1270	12	1370	10785.2	224.65	254.24	283.83	3413	12	100	684860.6	3718.1	4461.7	4833.5	3828.7	4637.6	5176.9	8196.8
108-1722	O	56	0.472	67.81	200.8	42.41	48.28	54.15	20	0.472	11.8	5621.4	836.5	1003.8	1087.5	861.4	1043.4	1164.7	1844.2
		1422.4	12	1722.4	10793.8	207.09	235.73	264.37	3413	12	300	767655.6	3721	4465.2	4837.3	3831.8	4641.3	5181	8203.3
108-1046	O	32	0.938	41.17	201.2	76.21	86.48	96.76	20	0.472	9.2	3218.9	838.2	1005.9	1089.7	863.2	1045.6	1167.1	1848
		812.8	23.812	1045.8	10816	372.07	422.25	472.44	3413	12	233	439564	3728.7	4474.4	4847.3	3839.7	4650.9	5191.7	8220.2
108-1169	O	36	0.812	46.02	201.5	67.21	76.33	85.45	20	0.472	10	3626.7	839.5	1007.4	1091.4	864.5	1047.2	1168.9	1850.8
		914.4	20.638	1168.9	10832.6	328.15	372.67	417.2	3413	12	254.5	495264.8	3734.4	4481.3	4854.7	3845.6	4658	5199.6	8232.7
108-1486	O	48	0.562	58.51	201.5	49.68	56.49	63.3	20	0.472	10.5	4836.7	839.7	1007.6	1091.6	864.7	1047.4	1169.2	1851.2
		1219.2	14.288	1486.2	10834.8	242.55	275.79	309.03	3413	12	267	660490.5	3735.2	4482.2	4855.7	3846.4	4659	5200.7	8234.5
108-964	O	34	0.75	37.94	201.6	69.58	78.72	87.85	20	0.472	3.9	3426.4	839.8	1007.8	1091.7	864.8	1047.5	1169.3	1851.4
		863.6	19.05	963.6	10836.1	339.72	384.33	428.94	3413	12	100	467902.7	3735.6	4482.7	4856.3	3846.8	4659.5	5201.3	8235.4
108-1131	O	42	0.562	44.52	201.8	55.3	62.54	69.77	20	0.472	2.5	4237.1	840.7	1008.8	1092.9	865.7	1048.6	1170.6	1853.4
		1066.8	14.288	1130.8	10847.7	269.99	305.33	340.67	3413	12	64	578618.7	3739.6	4487.5	4861.5	3850.9	4664.5	5206.9	8244.3
109-965	O	30	1	37.99	201.9	81.9	92.88	103.86	20	0.472	8	3028.7	841.3	1009.6	1093.7	866.4	1049.4	1171.4	1854.7
		762	25.4	965	10855.6	399.89	453.5	507.11	3413	12	203	413596.9	3742.3	4490.8	4865	3853.7	4667.9	5210.7	8250.2
109-1143	O	34.5	0.875	45.01	202	70.82	80.45	90.08	20	0.472	10.5	3485	841.8	1010.1	1094.3	866.8	1050	1172.1	1855.8
		876.3	22.225	1143.3	10861.8	345.78	392.81	439.83	3413	12	267	475908.5	3744.5	4493.4	4867.8	3855.9	4670.6	5213.7	8254.9
109-913	O	32	0.812	35.94	202.1	74.6	84.39	94.18	20	0.472	3.9	3234.1	842.2	1010.7	1094.9	867.3	1050.5	1172.7	1856.7
		812.8	20.638	912.8	10867.4	364.24	412.03	459.83	3413	12	100	441651	3746.4	4495.7	4870.3	3857.9	4673	5216.3	8259.2
109-1367	O	42	0.688	53.81	202.2	57.59	65.5	73.4	20	0.472	11.8	4246.3	842.5	1011	1095.3	867.6	1050.9	1173.1	1857.4
		1066.8	17.462	1366.8	10871.1	281.16	319.78	358.39	3413	12	300	579865.4	3747.7	4497.2	4872	3859.2	4674.6	5218.1	8262

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
109-1372	O	44	0.625	54.02	202.3	54.44	61.86	69.28	20	0.472	10	4450.2	842.8	1011.4	1095.7	867.9	1051.3	1173.5	1858.1
		1117.6	15.875	1372.1	10875.3	265.82	302.03	338.25	3413	12	254.5	607711.5	3749.1	4498.9	4873.9	3860.7	4676.4	5220.1	8265.2
109-1554	O	52	0.5	61.17	202.4	45.64	51.85	58.06	20	0.472	9.2	5261.5	843.2	1011.8	1096.2	868.3	1051.7	1174	1858.9
		1320.8	12.7	1553.8	10879.9	222.81	253.13	283.46	3413	12	233	718509.5	3750.7	4500.9	4875.9	3862.4	4678.4	5222.4	8268.7
109-1247	O	42	0.625	49.09	202.4	56.35	63.87	71.38	20	0.472	7.1	4250.8	843.4	1012.1	1096.4	868.5	1052	1174.3	1859.4
		1066.8	15.875	1246.8	10882.7	275.12	311.82	348.53	3413	12	180	580485.2	3751.7	4502	4877.2	3863.4	4679.6	5223.7	8270.9
109-1472	O	54	0.438	57.94	202.5	42.9	48.55	54.2	20	0.472	3.9	5468.6	843.9	1012.7	1097.1	869	1052.6	1175	1860.5
		1371.6	11.112	1471.6	10889.3	209.44	237.03	264.61	3413	12	100	746785.8	3753.9	4504.7	4880.1	3865.7	4682.4	5226.8	8275.8
109-1319	O	48	0.5	51.94	202.6	48.48	54.86	61.24	20	0.472	3.9	4862.5	844.2	1013	1097.4	869.3	1053	1175.4	1861.1
		1219.2	12.7	1319.2	10892.8	236.69	267.84	299	3413	12	100	664022.9	3755.1	4506.2	4881.7	3866.9	4683.9	5228.5	8278.5
109-1672	O	54	0.5	65.81	203.1	44.51	50.65	56.8	20	0.472	11.8	5482.9	846.1	1015.4	1100	871.3	1055.4	1178.1	1865.4
		1371.6	12.7	1671.6	10917.8	217.31	247.32	277.32	3413	12	300	748743.7	3763.8	4516.5	4892.9	3875.8	4694.7	5240.6	8297.5
109-1474	O	48	0.562	58.02	203.2	49.94	56.75	63.56	20	0.472	10	4877.7	846.8	1016.2	1100.9	872	1056.3	1179.1	1866.9
		1219.2	14.288	1473.7	10926.7	243.82	277.07	310.33	3413	12	254.5	666092.8	3766.9	4520.2	4896.9	3879	4698.5	5244.8	8304.3
110-1198	O	38	0.75	47.17	203.9	63.94	72.59	81.24	20	0.472	9.2	3874	849.6	1019.5	1104.4	874.9	1059.7	1182.9	1872.9
		965.2	19.05	1198.2	10962.1	312.17	354.4	396.63	3413	12	233	529031.9	3779.1	4534.9	4912.8	3891.6	4713.7	5261.8	8331.2
110-1575	O	54	0.472	61.99	204	44.05	50.01	55.97	20	0.472	8	5508.3	850	1020.1	1105.1	875.4	1060.3	1183.6	1874
		1371.6	12	1574.6	10968.4	215.08	244.18	273.28	3413	12	203	752210.1	3781.2	4537.4	4915.6	3893.8	4716.4	5264.8	8336
110-1131	O	34.5	0.875	44.52	204.3	71.39	81.06	90.73	20	0.472	10	3523.5	851.1	1021.3	1106.4	876.4	1061.6	1185	1876.3
		876.3	22.225	1130.8	10981.8	348.57	395.77	442.96	3413	12	254.5	481169.3	3785.9	4543	4921.6	3898.6	4722.2	5271.3	8346.2
110-1097	O	34	0.875	43.17	204.3	72.35	82.11	91.87	20	0.472	9.2	3473.8	851.4	1021.7	1106.8	876.8	1062	1185.5	1877
		863.6	22.225	1096.6	10986.1	353.25	400.91	448.57	3413	12	233	474379	3787.3	4544.8	4923.5	3900.1	4724	5273.3	8349.4
110-1116	O	40	0.625	43.94	204.7	59.31	67.11	74.9	20	0.472	3.9	4093.2	852.7	1023.3	1108.6	878.1	1063.7	1187.3	1879.9
		1016	15.875	1116	11003.2	289.58	327.64	365.69	3413	12	100	558961.5	3793.2	4551.8	4931.2	3906.1	4731.4	5281.5	8362.4
110-1689	O	56	0.472	66.51	204.7	43.01	48.91	54.81	20	0.472	10.5	5731.2	852.9	1023.4	1108.7	878.2	1063.8	1187.5	1880.2
		1422.4	12	1689.4	11004.6	209.99	238.81	267.62	3413	12	267	782650.6	3793.7	4552.5	4931.8	3906.7	4732	5282.2	8363.5
110-1219	O	40	0.688	47.99	205.1	60.62	68.78	76.95	20	0.472	8	4102.7	854.7	1025.7	1111.1	880.2	1066.1	1190.1	1884.3
		1016	17.462	1219	11028.7	295.97	335.83	375.7	3413	12	203	560258.4	3802	4562.4	4942.6	3915.2	4742.3	5293.8	8381.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
110-775	O	28	0.938	30.52	205.2	87.6	99.03	110.45	20	0.472	2.5	2872.5	854.9	1025.9	1111.4	880.4	1066.3	1190.3	1884.7
		711.2	23.812	775.2	11031	427.71	483.49	539.27	3413	12	64	392262.6	3802.8	4563.4	4943.6	3916	4743.3	5294.9	8383.6
110-1164	O	34	0.938	45.81	205.2	73.45	83.47	93.49	20	0.472	11.8	3488.2	854.9	1025.9	1111.4	880.4	1066.4	1190.4	1884.8
		863.6	23.812	1163.6	11031.5	358.63	407.54	456.45	3413	12	300	476341.5	3803	4563.6	4943.9	3916.2	4743.6	5295.1	8384
110-1147	O	36	0.812	45.17	205.3	68.25	77.47	86.69	20	0.472	9.2	3694.7	855.3	1026.3	1111.8	880.7	1066.8	1190.8	1885.5
		914.4	20.638	1147.4	11035.5	333.23	378.23	423.24	3413	12	233	504545.1	3804.4	4565.2	4945.7	3917.6	4745.3	5297.1	8387
110-1351	O	44	0.625	53.17	205.5	55.13	62.6	70.07	20	0.472	9.2	4521	856.3	1027.5	1113.1	881.7	1068	1192.2	1887.7
		1117.6	15.875	1350.6	11048.4	269.14	305.63	342.12	3413	12	233	617385.6	3808.8	4570.6	4951.4	3922.2	4750.8	5303.2	8396.8
111-978	O	36	0.688	38.52	205.8	66.49	75.18	83.87	20	0.472	2.5	3704.9	857.6	1029.1	1114.9	883.2	1069.7	1194.1	1890.7
		914.4	17.462	978.4	11066.1	324.65	367.07	409.48	3413	12	64	505942.4	3814.9	4577.9	4959.4	3928.5	4758.4	5311.7	8410.2
111-1334	O	50	0.472	52.52	206	47.05	53.21	59.37	20	0.472	2.5	5150.5	858.4	1030.1	1115.9	884	1070.7	1195.2	1892.4
		1270	12	1334	11076.3	229.73	259.79	289.85	3413	12	64	703342.6	3818.4	4582.1	4963.9	3932.1	4762.8	5316.6	8418
111-1218	O	44	0.562	47.94	206	53.99	61.08	68.18	20	0.472	3.9	4532.7	858.5	1030.2	1116	884	1070.8	1195.3	1892.6
		1117.6	14.288	1217.6	11077	263.58	298.23	332.88	3413	12	100	618984.9	3818.7	4582.4	4964.3	3932.3	4763.1	5317	8418.5
111-1677	O	56	0.472	66.02	206.2	43.19	49.09	54.98	20	0.472	10	5774	859.2	1031.1	1117	884.8	1071.7	1196.3	1894.2
		1422.4	12	1676.9	11086.7	210.85	239.65	268.46	3413	12	254.5	788484.7	3822	4586.4	4968.6	3935.8	4767.3	5321.6	8425.9
111-1452	O	48	0.562	57.17	206.2	50.5	57.36	64.21	20	0.472	9.2	4949.9	859.4	1031.2	1117.2	884.9	1071.9	1196.5	1894.5
		1219.2	14.288	1452.2	11088.5	246.58	280.05	313.52	3413	12	233	675954.4	3822.6	4587.1	4969.4	3936.4	4768.1	5322.5	8427.3
111-1316	O	40	0.75	51.81	206.3	61.86	70.33	78.8	20	0.472	11.8	4126.3	859.6	1031.6	1117.5	885.2	1072.2	1196.9	1895.1
		1016	19.05	1316	11092.1	302.03	343.39	384.74	3413	12	300	563478.7	3823.9	4588.6	4971	3937.7	4769.6	5324.2	8430
111-1524	O	52	0.5	59.99	206.4	46.31	52.57	58.83	20	0.472	8	5365.1	859.8	1031.8	1117.7	885.4	1072.4	1197.1	1895.5
		1320.8	12.7	1523.8	11094.1	226.1	256.66	287.21	3413	12	203	732655.2	3824.6	4589.5	4971.9	3938.4	4770.5	5325.2	8431.5
111-1080	O	32	1	42.51	206.6	78.8	89.47	100.14	20	0.472	10.5	3305.7	860.9	1033	1119.1	886.5	1073.8	1198.6	1897.9
		812.8	25.4	1079.8	11108	384.72	436.83	488.94	3413	12	267	451428	3829.3	4595.2	4978.1	3943.3	4776.4	5331.8	8442.1
111-942	O	30	1	37.09	206.8	83.27	94.31	105.35	20	0.472	7.1	3102.7	861.8	1034.2	1120.4	887.5	1075	1200	1900
		762	25.4	942	11120.6	406.57	460.46	514.35	3413	12	180	423695.3	3833.7	4600.4	4983.8	3947.8	4781.9	5337.9	8451.7
111-1552	O	54	0.472	61.09	207	44.32	50.24	56.16	20	0.472	7.1	5590	862.7	1035.2	1121.4	888.3	1076	1201.1	1901.8
		1371.6	12	1551.6	11130.9	216.39	245.3	274.21	3413	12	180	763360.4	3837.3	4604.7	4988.4	3951.5	4786.3	5342.9	8459.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
111-1016	O	32	0.938	39.99	207.1	78.12	88.59	99.06	20	0.472	8	3313.9	863	1035.6	1121.9	888.7	1076.4	1201.6	1902.5
		812.8	23.812	1015.8	11135.5	381.41	432.53	483.65	3413	12	203	452545.8	3838.8	4606.6	4990.5	3953.1	4788.3	5345	8463
111-1639	O	54	0.5	64.51	207.2	45.16	51.35	57.54	20	0.472	10.5	5593.4	863.2	1035.8	1122.1	888.9	1076.7	1201.8	1902.9
		1371.6	12.7	1638.6	11137.7	220.51	250.72	280.94	3413	12	267	763822.8	3839.6	4607.5	4991.5	3953.9	4789.2	5346.1	8464.6
111-1334	O	42	0.688	52.51	207.2	58.71	66.72	74.73	20	0.472	10.5	4351.3	863.4	1036	1122.4	889.1	1076.9	1202.1	1903.3
		1066.8	17.462	1333.8	11140.1	286.67	325.76	364.85	3413	12	267	594212	3840.4	4608.5	4992.5	3954.7	4790.2	5347.2	8466.5
111-1570	O	50	0.562	61.81	207.3	49.15	55.91	62.67	20	0.472	11.8	5182.3	863.7	1036.5	1122.8	889.4	1077.3	1202.6	1904.1
		1270	14.288	1570	11144.7	239.96	272.97	305.99	3413	12	300	707687.9	3842	4610.4	4994.6	3956.4	4792.2	5349.5	8470
112-1436	O	54	0.438	56.52	207.6	43.78	49.51	55.24	20	0.472	2.5	5605.7	865.1	1038.1	1124.6	890.8	1079	1204.5	1907.1
		1371.6	11.112	1435.6	11162.3	213.78	241.75	269.72	3413	12	64	765512.7	3848.1	4617.7	5002.5	3962.6	4799.8	5357.9	8483.4
112-811	O	28	1	31.94	207.7	89.28	100.96	112.65	20	0.472	3.9	2908.3	865.6	1038.7	1125.2	891.3	1079.6	1205.2	1908.2
		711.2	25.4	811.2	11168.4	435.9	492.94	549.98	3413	12	100	397148.7	3850.2	4620.2	5005.2	3964.8	4802.4	5360.8	8488
112-1214	O	36	0.875	47.81	207.8	69.82	79.35	88.87	20	0.472	11.8	3739.7	865.7	1038.8	1125.4	891.4	1079.8	1205.3	1908.4
		914.4	22.225	1214.4	11170	340.89	387.41	433.92	3413	12	300	510692.5	3850.7	4620.9	5005.9	3965.4	4803.1	5361.6	8489.2
112-1265	O	38	0.812	49.81	208.2	65.95	74.96	83.97	20	0.472	11.8	3954.9	867.3	1040.8	1127.5	893.1	1081.8	1207.6	1912
		965.2	20.638	1265.2	11191	321.97	365.97	409.97	3413	12	300	540079	3858	4629.6	5015.4	3972.8	4812.1	5371.7	8505.2
112-1109	O	34.5	0.875	43.67	208.2	72.55	82.33	92.11	20	0.472	9.2	3591.8	867.6	1041.1	1127.9	893.4	1082.2	1208	1912.7
		876.3	22.225	1109.3	11194.7	354.22	401.97	449.71	3413	12	233	490495.1	3859.2	4631.1	5017	3974.1	4813.7	5373.4	8508
112-1283	O	48	0.5	50.52	208.3	49.63	56.12	62.61	20	0.472	2.5	4999	867.9	1041.4	1128.2	893.7	1082.5	1208.4	1913.3
		1219.2	12.7	1283.2	11198.4	242.3	273.99	305.68	3413	12	64	682652	3860.5	4632.6	5018.6	3975.4	4815.3	5375.2	8510.8
112-1626	O	54	0.5	64.02	208.8	45.36	51.55	57.74	20	0.472	10	5636.4	869.8	1043.8	1130.7	895.7	1084.9	1211.1	1917.6
		1371.6	12.7	1626.1	11223.3	221.48	251.69	281.9	3413	12	254.5	769694.4	3869.1	4642.9	5029.8	3984.3	4826	5387.2	8529.7
112-1655	O	56	0.472	65.17	208.9	43.6	49.52	55.45	20	0.472	9.2	5848.9	870.4	1044.5	1131.5	896.3	1085.6	1211.9	1918.8
		1422.4	12	1655.4	11230.7	212.85	241.78	270.71	3413	12	233	798725.4	3871.6	4646	5033.1	3986.9	4829.2	5390.7	8535.3
112-826	O	30	0.875	32.52	209	82.57	93.34	104.1	20	0.472	2.5	3135.4	870.9	1045.1	1132.2	896.9	1086.3	1212.7	1920.1
		762	22.225	826	11237.9	403.15	455.72	508.28	3413	12	64	428165.9	3874.1	4649	5036.4	3989.5	4832.3	5394.2	8540.8
112-1067	O	32	1	42.02	209	79.5	90.22	100.94	20	0.472	10	3344.5	871	1045.1	1132.2	896.9	1086.4	1212.7	1920.1
		812.8	25.4	1067.3	11238.1	388.13	440.49	492.84	3413	12	254.5	456715.1	3874.2	4649	5036.4	3989.5	4832.4	5394.3	8540.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
112-1196	O	40	0.688	47.09	209.1	61.29	69.44	77.6	20	0.472	7.1	4181.6	871.2	1045.4	1132.5	897.1	1086.6	1213	1920.5
		1016	17.462	1196	11240.8	299.23	339.05	378.87	3413	12	180	571032.6	3875.1	4650.2	5037.7	3990.5	4833.5	5395.6	8543
112-1168	O	38	0.75	45.99	209.1	65.29	74.06	82.83	20	0.472	8	3973.5	871.4	1045.7	1132.8	897.3	1086.9	1213.3	1921
		965.2	19.05	1168.2	11243.6	318.76	361.6	404.43	3413	12	203	542617.7	3876.1	4651.3	5038.9	3991.5	4834.8	5396.9	8545.2
112-1321	O	42	0.688	52.02	209.2	59.09	67.11	75.13	20	0.472	10	4392.5	871.5	1045.8	1133	897.5	1087.1	1213.5	1921.3
		1066.8	17.462	1321.3	11245.5	288.49	327.66	366.82	3413	12	254.5	599833.5	3876.7	4652.1	5039.8	3992.1	4835.6	5397.8	8546.6
113-928	O	34	0.75	36.52	209.4	71.99	81.39	90.78	20	0.472	2.5	3559.4	872.4	1046.9	1134.1	898.4	1088.2	1214.7	1923.3
		863.6	19.05	927.6	11256.6	351.49	397.36	443.23	3413	12	64	486061.9	3880.6	4656.7	5044.8	3996.1	4840.4	5403.2	8555
113-1421	O	52	0.472	55.94	209.4	46.1	52.16	58.22	20	0.472	3.9	5445.6	872.7	1047.2	1134.5	898.7	1088.5	1215.1	1923.9
		1320.8	12	1420.8	11260.5	225.08	254.67	284.26	3413	12	100	743644.4	3881.9	4658.3	5046.5	3997.5	4842	5405	8558
113-1501	O	52	0.5	59.09	209.5	46.62	52.84	59.07	20	0.472	7.1	5447.3	873	1047.6	1134.9	899	1088.9	1215.5	1924.5
		1320.8	12.7	1500.8	11264.1	227.63	258.01	288.39	3413	12	180	743883.3	3883.2	4659.8	5048.1	3998.8	4843.6	5406.8	8560.7
113-1067	O	34	0.875	41.99	210.1	74.06	83.99	93.92	20	0.472	8	3571.5	875.4	1050.4	1138	901.4	1091.9	1218.8	1929.8
		863.6	22.225	1066.6	11295.1	361.62	410.09	458.57	3413	12	203	487721.7	3893.8	4672.6	5062	4009.8	4856.9	5421.6	8584.3
113-1321	O	44	0.625	51.99	210.2	56.12	63.67	71.23	20	0.472	8	4623.7	875.7	1050.8	1138.4	901.8	1092.3	1219.3	1930.6
		1117.6	15.875	1320.6	11299.4	273.99	310.89	347.78	3413	12	203	631410.7	3895.3	4674.4	5063.9	4011.3	4858.7	5423.7	8587.5
113-877	O	32	0.812	34.52	210.4	77.36	87.45	97.54	20	0.472	2.5	3366.9	876.8	1052.2	1139.8	902.9	1093.7	1220.8	1933
		812.8	20.638	876.8	11313.6	377.69	426.95	476.21	3413	12	64	459784.4	3900.2	4680.3	5070.3	4016.3	4864.8	5430.5	8598.3
113-1422	O	48	0.562	55.99	210.6	51.33	58.25	65.17	20	0.472	8	5054.3	877.5	1053	1140.7	903.6	1094.5	1221.8	1934.5
		1219.2	14.288	1422.2	11322.4	250.61	284.39	318.17	3413	12	203	690213.1	3903.3	4683.9	5074.2	4019.4	4868.6	5434.7	8605
113-1522	O	56	0.438	59.94	210.7	42.96	48.61	54.26	20	0.472	3.9	5900.6	878.1	1053.7	1141.5	904.2	1095.2	1222.6	1935.8
		1422.4	11.112	1522.4	11329.9	209.77	237.35	264.93	3413	12	100	805780.3	3905.8	4687	5077.6	4022.1	4871.8	5438.3	8610.7
113-1117	O	36	0.812	43.99	210.8	69.78	79.14	88.5	20	0.472	8	3793.9	878.2	1053.9	1141.7	904.4	1095.4	1222.8	1936.1
		914.4	20.638	1117.4	11331.8	340.68	386.39	432.11	3413	12	203	518091.1	3906.5	4687.8	5078.5	4022.8	4872.7	5439.3	8612.2
114-1131	O	34	0.938	44.51	211.2	75.25	85.44	95.63	20	0.472	10.5	3590	879.9	1055.9	1143.9	906.1	1097.5	1225.1	1939.8
		863.6	23.812	1130.6	11353.5	367.39	417.16	466.92	3413	12	267	490245	3914	4696.8	5088.2	4030.5	4882	5449.7	8628.7
114-1065	O	38	0.688	41.94	211.3	64.69	73.18	81.66	20	0.472	3.9	4014.5	880.4	1056.4	1144.5	906.6	1098.1	1225.8	1940.8
		965.2	17.462	1065.2	11359.5	315.86	357.28	398.71	3413	12	100	548209.7	3916.1	4699.3	5090.9	4032.6	4884.6	5452.6	8633.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
114-1080	O	40	0.625	42.52	211.5	61.04	69.01	76.98	20	0.472	2.5	4229.6	881.2	1057.4	1145.5	907.4	1099.1	1226.9	1942.6
		1016	15.875	1080	11370	298.02	336.94	375.85	3413	12	64	577593.5	3919.7	4703.6	5095.5	4036.3	4889.1	5457.6	8641.2
114-1605	O	54	0.5	63.17	211.6	45.82	52.03	58.25	20	0.472	9.2	5711.9	881.5	1057.8	1145.9	907.7	1099.5	1227.3	1943.2
		1371.6	12.7	1604.6	11373.7	223.69	254.04	284.4	3413	12	233	780007.5	3920.9	4705.1	5097.2	4037.7	4890.7	5459.4	8644
114-1283	O	40	0.75	50.51	211.6	63.14	71.73	80.31	20	0.472	10.5	4232.4	881.8	1058.1	1146.3	908	1099.8	1227.7	1943.9
		1016	19.05	1283	11377.4	308.29	350.21	392.13	3413	12	267	577971.9	3922.2	4706.7	5098.9	4039	4892.3	5461.2	8646.8
114-1537	O	50	0.562	60.51	211.7	49.94	56.77	63.59	20	0.472	10.5	5293.6	882.3	1058.7	1146.9	908.5	1100.5	1228.4	1945
		1270	14.288	1537	11384	243.85	277.16	310.47	3413	12	267	722882.2	3924.5	4709.4	5101.8	4041.3	4895.1	5464.3	8651.8
114-993	O	32	0.938	39.09	211.9	79.33	89.84	100.35	20	0.472	7.1	3390.7	883	1059.6	1147.9	909.3	1101.4	1229.4	1946.6
		812.8	23.812	992.8	11393.5	387.32	438.65	489.97	3413	12	180	463029.8	3927.8	4713.3	5106.1	4044.7	4899.2	5468.9	8659
114-1370	O	50	0.5	53.94	212	48.58	54.97	61.35	20	0.472	3.9	5298.9	883.1	1059.8	1148.1	909.4	1101.6	1229.7	1947
		1270	12.7	1370	11395.4	237.2	268.36	299.52	3413	12	100	723609.5	3928.4	4714.1	5107	4045.4	4900	5469.8	8660.5
114-1722	O	56	0.5	67.81	212.2	44.71	50.86	57.02	20	0.472	11.8	5940.5	884	1060.8	1149.2	910.3	1102.6	1230.9	1948.9
		1422.4	12.7	1722.4	11406.6	218.29	248.33	278.38	3413	12	300	811234.3	3932.3	4718.7	5112	4049.3	4904.8	5475.1	8669
114-1182	O	44	0.562	46.52	212.3	55.4	62.64	69.88	20	0.472	2.5	4670.8	884.6	1061.6	1150	911	1103.4	1231.7	1950.2
		1117.6	14.288	1181.6	11414.5	270.5	305.83	341.17	3413	12	64	637843.6	3935	4722	5115.5	4052.2	4908.2	5479	8675
114-1300	O	42	0.688	51.17	212.6	59.87	67.96	76.05	20	0.472	9.2	4465.1	885.9	1063.1	1151.7	912.3	1105.1	1233.6	1953.1
		1066.8	17.462	1299.8	11431.5	292.32	331.82	371.32	3413	12	233	609755.3	3940.9	4729	5123.1	4058.2	4915.5	5487.1	8687.9
114-1625	O	56	0.472	63.99	212.7	44.19	50.15	56.12	20	0.472	8	5956.9	886.4	1063.7	1152.4	912.8	1105.7	1234.3	1954.2
		1422.4	12	1625.4	11438	215.75	244.87	273.99	3413	12	203	813467.5	3943.1	4731.7	5126	4060.5	4918.3	5490.2	8692.8
115-862	O	30	0.938	33.94	213.3	84.76	95.85	106.94	20	0.472	3.9	3198.8	888.6	1066.3	1155.1	915	1108.3	1237.2	1958.9
		762	23.812	862	11465.3	413.85	467.98	522.11	3413	12	100	436827.1	3952.5	4743	5138.3	4070.2	4930.1	5503.3	8713.6
115-1046	O	32	1	41.17	213.3	80.89	91.75	102.62	20	0.472	9.2	3413.2	888.9	1066.6	1155.5	915.3	1108.7	1237.6	1959.6
		812.8	25.4	1045.8	11469.1	394.94	447.98	501.02	3413	12	233	466104.4	3953.8	4744.6	5140	4071.5	4931.7	5505.2	8716.5
115-1145	O	38	0.75	45.09	213.3	66.08	74.85	83.63	20	0.472	7.1	4053.3	888.9	1066.7	1155.5	915.3	1108.7	1237.6	1959.6
		965.2	19.05	1145.2	11469.4	322.62	365.47	408.32	3413	12	180	553515.5	3954	4744.7	5140.1	4071.7	4931.9	5505.3	8716.8
115-1525	O	50	0.562	60.02	213.5	50.2	57.02	63.85	20	0.472	10	5337	889.5	1067.4	1156.3	916	1109.5	1238.5	1961
		1270	14.288	1524.5	11477.3	245.08	278.41	311.73	3413	12	254.5	728809.4	3956.7	4748	5143.7	4074.4	4935.2	5509.1	8722.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
115-1118	O	34	0.938	44.02	213.5	75.87	86.11	96.34	20	0.472	10	3630.1	889.7	1067.7	1156.7	916.2	1109.8	1238.8	1961.5
		863.6	23.812	1118.1	11480.4	370.45	420.42	470.39	3413	12	254.5	495725.8	3957.7	4749.3	5145.1	4075.6	4936.6	5510.6	8725.1
115-1181	O	36	0.875	46.51	213.6	71.43	81.12	90.8	20	0.472	10.5	3844.2	889.9	1067.8	1156.8	916.3	1109.9	1239	1961.8
		914.4	22.225	1181.4	11482	348.77	396.05	443.32	3413	12	267	524957.7	3958.3	4749.9	5145.8	4076.1	4937.3	5511.4	8726.3
115-1271	O	40	0.75	50.02	213.7	63.58	72.18	80.79	20	0.472	10	4274	890.4	1068.5	1157.6	916.9	1110.6	1239.8	1963
		1016	19.05	1270.5	11489.3	310.4	352.43	394.45	3413	12	254.5	583658.4	3960.8	4753	5149.1	4078.7	4940.4	5514.9	8731.9
115-1232	O	38	0.812	48.51	213.7	67.39	76.54	85.68	20	0.472	10.5	4060.8	890.5	1068.6	1157.7	917	1110.8	1239.9	1963.2
		965.2	20.638	1232.2	11490.7	329.03	373.68	418.33	3413	12	267	554543.1	3961.3	4753.5	5149.7	4079.2	4941	5515.6	8733
115-1298	O	44	0.625	51.09	213.9	56.65	64.19	71.73	20	0.472	7.1	4705.7	891.2	1069.5	1158.6	917.8	1111.6	1240.9	1964.8
		1117.6	15.875	1297.6	11499.7	276.61	313.41	350.21	3413	12	180	642602.5	3964.4	4757.2	5153.7	4082.4	4944.9	5519.8	8739.8
115-1079	O	34.5	0.875	42.49	214	74.25	84.19	94.14	20	0.472	8	3691.7	891.7	1070	1159.2	918.2	1112.2	1241.6	1965.8
		876.3	22.225	1079.3	11505.8	362.52	411.07	459.63	3413	12	203	504128.8	3966.5	4759.8	5156.4	4084.6	4947.5	5522.8	8744.4
115-1399	O	48	0.562	55.09	214.1	51.75	58.64	65.53	20	0.472	7.1	5137.4	891.9	1070.3	1159.5	918.5	1112.5	1241.9	1966.3
		1219.2	14.288	1399.2	11508.5	252.65	286.3	319.94	3413	12	180	701558.7	3967.4	4760.9	5157.6	4085.5	4948.7	5524.1	8746.5
115-1418	O	44	0.688	55.81	214.4	58.05	65.99	73.94	20	0.472	11.8	4717.8	893.5	1072.2	1161.6	920.1	1114.5	1244.1	1969.9
		1117.6	17.462	1417.6	11529.4	283.43	322.21	360.98	3413	12	300	644262.8	3974.6	4769.5	5167	4092.9	4957.6	5534.1	8762.3
115-1044	O	34	0.875	41.09	214.7	75.13	85.08	95.04	20	0.472	7.1	3650.2	894.7	1073.6	1163.1	921.3	1115.9	1245.7	1972.4
		863.6	22.225	1043.6	11544	366.8	415.42	464.04	3413	12	180	498470.7	3979.7	4775.6	5173.6	4098.1	4963.9	5541.1	8773.5
116-1385	O	52	0.472	54.52	214.9	47.1	53.26	59.41	20	0.472	2.5	5587.2	895.4	1074.5	1164	922	1116.8	1246.7	1973.9
		1320.8	12	1384.8	11553.2	229.98	260.03	290.07	3413	12	64	762976.6	3982.8	4779.4	5177.7	4101.4	4967.9	5545.6	8780.5
116-1094	O	36	0.812	43.09	215.2	70.7	80.08	89.46	20	0.472	7.1	3873.6	896.7	1076	1165.7	923.4	1118.4	1248.5	1976.8
		914.4	20.638	1094.4	11570	345.19	390.97	436.76	3413	12	180	528979.3	3988.6	4786.3	5185.2	4107.3	4975.1	5553.6	8793.2
116-1014	O	36	0.75	39.94	215.4	69.95	79.11	88.27	20	0.472	3.9	3877.9	897.7	1077.2	1167	924.4	1119.7	1249.9	1979
		914.4	19.05	1014.4	11582.8	341.53	386.26	430.99	3413	12	100	529566.2	3993	4791.6	5190.9	4111.9	4980.6	5559.8	8802.9
116-1575	O	54	0.5	61.99	215.6	46.47	52.73	59	20	0.472	8	5820.7	898.3	1077.9	1167.7	925	1120.4	1250.7	1980.3
		1371.6	12.7	1574.6	11590.4	226.89	257.47	288.05	3413	12	203	794868.5	3995.6	4794.8	5194.3	4114.6	4983.9	5563.4	8808.7
116-1602	O	56	0.472	63.09	215.8	44.45	50.38	56.3	20	0.472	7.1	6042.4	899.2	1079	1168.9	925.9	1121.6	1252	1982.3
		1422.4	12	1602.4	11602.1	217.04	245.97	274.9	3413	12	180	825143.5	3999.7	4799.6	5199.6	4118.8	4988.9	5569	8817.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
116-1486	O	56	0.438	58.52	215.8	43.82	49.55	55.27	20	0.472	2.5	6043.5	899.3	1079.2	1169.1	926.1	1121.8	1252.2	1982.6
		1422.4	11.112	1486.4	11604.3	213.96	241.92	269.87	3413	12	64	825296	4000.4	4800.5	5200.6	4119.5	4989.8	5570.1	8819.2
116-1169	O	36	0.875	46.02	215.8	71.99	81.71	91.43	20	0.472	10	3885.3	899.4	1079.2	1169.2	926.1	1121.8	1252.3	1982.7
		914.4	22.225	1168.9	11604.8	351.5	398.95	446.39	3413	12	254.5	530571.5	4000.6	4800.7	5200.8	4119.7	4990.1	5570.3	8819.6
116-1220	O	38	0.812	48.02	215.9	67.88	77.06	86.23	20	0.472	10	4102.5	899.7	1079.6	1169.6	926.4	1122.2	1252.7	1983.4
		965.2	20.638	1219.7	11608.5	331.44	376.23	421.02	3413	12	254.5	560226.3	4001.9	4802.3	5202.5	4121	4991.7	5572.1	8822.5
116-1167	O	42	0.625	45.94	216.3	59.52	67.33	75.13	20	0.472	3.9	4542.3	901.2	1081.5	1171.6	928.1	1124.1	1254.9	1986.9
		1066.8	15.875	1166.8	11628.9	290.61	328.71	366.81	3413	12	100	620285.4	4008.9	4810.7	5211.6	4128.3	5000.4	5581.9	8838
116-1689	O	56	0.5	66.51	216.3	45.35	51.54	57.74	20	0.472	10.5	6056.6	901.3	1081.5	1171.7	928.1	1124.2	1254.9	1986.9
		1422.4	12.7	1689.4	11629.4	221.41	251.66	281.91	3413	12	267	827080.6	4009.1	4810.9	5211.8	4128.4	5000.6	5582.1	8838.3
116-913	O	32	0.875	35.94	216.4	80.01	90.48	100.94	20	0.472	3.9	3462.4	901.7	1082	1172.2	928.5	1124.7	1255.5	1987.8
		812.8	22.225	912.8	11634.4	390.65	441.75	492.85	3413	12	100	472823.2	4010.8	4813	5214.1	4130.2	5002.8	5584.5	8842.2
116-1503	O	50	0.562	59.17	216.5	50.75	57.62	64.48	20	0.472	9.2	5413.3	902.2	1082.7	1172.9	929.1	1125.4	1256.2	1989
		1270	14.288	1503	11641.5	247.77	281.3	314.83	3413	12	233	739234.9	4013.3	4815.9	5217.2	4132.7	5005.8	5587.9	8847.5
117-964	O	34	0.812	37.94	217.1	75.06	84.89	94.71	20	0.472	3.9	3691.4	904.7	1085.7	1176.2	931.7	1128.5	1259.7	1994.6
		863.6	20.638	963.6	11674.1	366.5	414.46	462.42	3413	12	100	504086.8	4024.5	4829.4	5231.8	4144.3	5019.9	5603.6	8872.3
117-775	O	28	1	30.52	217.4	93.08	105.19	117.3	20	0.472	2.5	3043.3	905.7	1086.9	1177.5	932.7	1129.8	1261.1	1996.8
		711.2	25.4	775.2	11687.1	454.45	513.58	572.7	3413	12	64	415592.1	4029	4834.8	5237.7	4148.9	5025.4	5609.8	8882.2
117-1249	O	40	0.75	49.17	217.4	64.47	73.16	81.85	20	0.472	9.2	4347.6	905.8	1086.9	1177.5	932.7	1129.8	1261.1	1996.8
		1016	19.05	1249	11687.1	314.76	357.19	399.61	3413	12	233	593705.4	4029	4834.8	5237.7	4148.9	5025.5	5609.8	8882.2
117-1621	O	52	0.562	63.81	217.5	49.42	56.19	62.97	20	0.472	11.8	5654.1	906.1	1087.3	1177.9	933.1	1130.2	1261.6	1997.6
		1320.8	14.288	1620.8	11691.6	241.27	274.36	307.44	3413	12	300	772112.5	4030.5	4836.6	5239.7	4150.5	5027.4	5612	8885.6
117-1270	O	42	0.688	49.99	217.6	61.02	69.21	77.4	20	0.472	8	4570.6	906.9	1088.2	1178.9	933.9	1131.2	1262.7	1999.3
		1066.8	17.462	1269.8	11701.6	297.91	337.91	377.9	3413	12	203	624161.3	4034	4840.8	5244.2	4154.1	5031.7	5616.7	8893.2
117-1164	O	34	1	45.81	217.7	77.94	88.52	99.1	20	0.472	11.8	3700.1	906.9	1088.3	1178.9	933.9	1131.2	1262.7	1999.3
		863.6	25.4	1163.6	11701.7	380.55	432.2	483.85	3413	12	300	505279.3	4034	4840.8	5244.2	4154.1	5031.7	5616.8	8893.3
117-1334	O	50	0.5	52.52	217.7	49.69	56.18	62.67	20	0.472	2.5	5441.9	907	1088.4	1179.1	934	1131.3	1262.8	1999.5
		1270	12.7	1334	11702.9	242.62	274.29	305.97	3413	12	64	743137.2	4034.5	4841.3	5244.8	4154.5	5032.3	5617.4	8894.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
117-1097	O	34	0.938	43.17	217.7	77.13	87.49	97.85	20	0.472	9.2	3701.3	907.2	1088.6	1179.3	934.2	1131.5	1263.1	1999.9
		863.6	23.812	1096.6	11705.5	376.6	427.18	477.76	3413	12	233	505445	4035.3	4842.4	5245.9	4155.5	5033.4	5618.7	8896.2
117-1677	O	56	0.5	66.02	217.9	45.54	51.74	57.93	20	0.472	10	6101.7	908	1089.6	1180.4	935	1132.6	1264.3	2001.7
		1422.4	12.7	1676.9	11716.1	222.37	252.6	282.84	3413	12	254.5	833245.9	4039	4846.8	5250.7	4159.2	5037.9	5623.7	8904.2
117-1519	O	48	0.625	59.81	218.2	53.88	61.26	68.63	20	0.472	11.8	5236.8	909.2	1091	1181.9	936.2	1134	1265.9	2004.3
		1219.2	15.875	1519.2	11731.1	263.07	299.08	335.08	3413	12	300	715126.4	4044.1	4853	5257.4	4164.5	5044.4	5630.9	8915.6
117-1472	O	54	0.472	57.94	218.3	46.18	52.24	58.3	20	0.472	3.9	5893.9	909.5	1091.5	1182.4	936.6	1134.5	1266.4	2005.2
		1371.6	12	1471.6	11736.1	225.48	255.08	284.67	3413	12	100	804858.7	4045.9	4855	5259.6	4166.3	5046.5	5633.3	8919.4
118-1056	O	34.5	0.875	41.59	218.7	75.3	85.28	95.25	20	0.472	7.1	3772	911.1	1093.3	1184.5	938.2	1136.5	1268.6	2008.6
		876.3	22.225	1056.3	11756.4	367.66	416.36	465.05	3413	12	180	515105.7	4052.9	4863.4	5268.7	4173.5	5055.2	5643.1	8934.8
118-1029	O	38	0.688	40.52	218.7	66.69	75.39	84.08	20	0.472	2.5	4154.9	911.2	1093.4	1184.5	938.3	1136.5	1268.7	2008.7
		965.2	17.462	1029.2	11756.8	325.63	368.08	410.53	3413	12	64	567385.3	4053	4863.6	5268.9	4173.7	5055.4	5643.3	8935.2
118-1552	O	54	0.5	61.09	218.8	46.78	53	59.23	20	0.472	7.1	5907	911.6	1093.9	1185	938.7	1137	1269.2	2009.6
		1371.6	12.7	1551.6	11762.2	228.38	258.79	289.2	3413	12	180	806651.2	4054.9	4865.8	5271.3	4175.6	5057.7	5645.9	8939.3
118-1385	O	44	0.688	54.51	219.6	59.15	67.18	75.22	20	0.472	10.5	4830.3	914.8	1097.8	1189.3	942.1	1141.1	1273.8	2016.8
		1117.6	17.462	1384.6	11804.2	288.79	328.03	367.26	3413	12	267	659617.9	4069.4	4883.2	5290.2	4190.5	5075.8	5666	8971.2
118-1367	O	42	0.75	53.81	219.6	62.42	70.94	79.45	20	0.472	11.8	4611.5	915	1098	1189.5	942.2	1141.3	1274	2017.2
		1066.8	19.05	1366.8	11806.3	304.77	346.34	387.91	3413	12	300	629747.6	4070.1	4884.1	5291.1	4191.2	5076.7	5667	8972.8
118-1016	O	32	1	39.99	219.6	82.94	94.01	105.09	20	0.472	8	3514	915.1	1098.1	1189.6	942.3	1141.4	1274.2	2017.4
		812.8	25.4	1015.8	11807.8	404.96	459.02	513.08	3413	12	203	479870.1	4070.6	4884.7	5291.8	4191.8	5077.4	5667.8	8973.9
118-1198	O	38	0.812	47.17	219.8	68.89	78.16	87.43	20	0.472	9.2	4176.1	915.8	1099	1190.5	943.1	1142.3	1275.1	2019
		965.2	20.638	1198.2	11816.8	336.37	381.62	426.87	3413	12	233	570278.8	4073.7	4888.4	5295.8	4195	5081.2	5672.1	8980.8
118-1147	O	36	0.875	45.17	219.9	73.12	82.95	92.78	20	0.472	9.2	3958.1	916.2	1099.5	1191.1	943.5	1142.8	1275.7	2019.9
		914.4	22.225	1147.4	11822.3	357.02	405	452.97	3413	12	233	540513.3	4075.6	4890.7	5298.2	4196.9	5083.6	5674.7	8984.9
119-1655	O	56	0.5	65.17	220.7	45.98	52.21	58.43	20	0.472	9.2	6181	919.8	1103.7	1195.7	947.2	1147.3	1280.7	2027.7
		1422.4	12.7	1655.4	11868.2	224.51	254.9	285.28	3413	12	233	844067.9	4091.4	4909.7	5318.9	4213.2	5103.3	5696.7	9019.8
119-1473	O	50	0.562	57.99	220.9	51.55	58.48	65.41	20	0.472	8	5523.6	920.6	1104.7	1196.8	948	1148.3	1281.8	2029.5
		1270	14.288	1473	11878.6	251.69	285.52	319.35	3413	12	203	754290.6	4095	4914	5323.5	4216.9	5107.8	5701.7	9027.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
119-1421	O	52	0.5	55.94	221.3	48.68	55.06	61.45	20	0.472	3.9	5754.1	922.1	1106.5	1198.8	949.6	1150.2	1283.9	2032.9
		1320.8	12.7	1420.8	11898.4	237.68	268.85	300.01	3413	12	100	785768.6	4101.8	4922.2	5332.4	4223.9	5116.3	5711.2	9042.8
119-1214	O	36	0.938	47.81	221.4	74.41	84.51	94.61	20	0.472	11.8	3985.9	922.7	1107.2	1199.5	950.1	1150.9	1284.7	2034.1
		914.4	23.812	1214.4	11905.2	363.28	412.6	461.92	3413	12	300	544305.8	4104.2	4925	5335.4	4226.3	5119.2	5714.5	9048
119-1372	O	44	0.688	54.02	221.6	59.51	67.56	75.61	20	0.472	10	4874.3	923.2	1107.8	1200.1	950.6	1151.5	1285.4	2035.2
		1117.6	17.462	1372.1	11911.7	290.57	329.88	369.18	3413	12	254.5	665627.1	4106.4	4927.7	5338.3	4228.7	5122	5717.6	9052.9
119-1247	O	42	0.688	49.09	221.7	61.67	69.85	78.03	20	0.472	7.1	4655	923.6	1108.3	1200.7	951.1	1152	1286	2036.1
		1066.8	17.462	1246.8	11917.4	301.08	341.03	380.98	3413	12	180	635675.3	4108.4	4930.1	5340.9	4230.7	5124.5	5720.4	9057.2
119-1588	O	52	0.562	62.51	222	50.19	57.03	63.86	20	0.472	10.5	5771.6	924.9	1109.9	1202.4	952.5	1153.7	1287.8	2039.1
		1320.8	14.288	1587.8	11934.6	245.07	278.44	311.81	3413	12	267	788159.7	4114.3	4937.2	5348.6	4236.8	5131.9	5728.6	9070.3
120-1316	O	40	0.812	51.81	222.5	66.62	75.68	84.75	20	0.472	11.8	4449.1	926.9	1112.3	1205	954.5	1156.1	1290.6	2043.4
		1016	20.638	1316	11959.9	325.26	369.53	413.79	3413	12	300	607563.1	4123	4947.6	5359.9	4245.8	5142.8	5740.8	9089.5
120-826	O	30	0.938	32.52	222.5	88.13	99.59	111.06	20	0.472	2.5	3338.2	927.3	1112.7	1205.5	954.9	1156.6	1291.1	2044.3
		762	23.812	826	11965	430.3	486.26	542.22	3413	12	64	455865.6	4124.8	4949.7	5362.2	4247.6	5144.9	5743.2	9093.4
120-1219	O	40	0.75	47.99	222.7	65.77	74.58	83.39	20	0.472	8	4454.6	928	1113.7	1206.5	955.7	1157.6	1292.2	2045.9
		1016	19.05	1219	11974.7	321.14	364.15	407.16	3413	12	203	608316.7	4128.1	4953.8	5366.6	4251	5149.1	5747.9	9100.8
120-1486	O	48	0.625	58.51	223	54.81	62.26	69.71	20	0.472	10.5	5353	929.3	1115.2	1208.2	957	1159.2	1294	2048.8
		1219.2	15.875	1486.2	11991.6	267.61	303.98	340.36	3413	12	267	731005.2	4133.9	4960.7	5374.1	4257	5156.4	5755.9	9113.6
120-1265	O	38	0.875	49.81	223.1	70.62	80.22	89.81	20	0.472	11.8	4238	929.4	1115.3	1208.2	957.1	1159.3	1294.1	2048.9
		965.2	22.225	1265.2	11992.1	344.81	391.66	438.51	3413	12	300	578740.9	4134.1	4961	5374.4	4257.2	5156.6	5756.2	9114
120-1131	O	42	0.625	44.52	223.2	61.18	69.15	77.12	20	0.472	2.5	4686.9	929.9	1115.9	1208.9	957.6	1159.9	1294.8	2050.1
		1066.8	15.875	1130.8	11999.1	298.7	337.63	376.56	3413	12	64	640032.7	4136.6	4963.9	5377.5	4259.7	5159.6	5759.6	9119.3
120-978	O	36	0.75	38.52	223.4	72.25	81.66	91.06	20	0.472	2.5	4020.6	930.7	1116.8	1209.9	958.4	1160.9	1295.9	2051.8
		914.4	19.05	978.4	12009	352.75	398.68	444.61	3413	12	64	549051.5	4140	4967.9	5381.9	4263.2	5163.9	5764.3	9126.8
120-1575	O	52	0.562	62.02	223.7	50.44	57.28	64.12	20	0.472	10	5817.4	932.3	1118.7	1212	960	1162.8	1298.1	2055.3
		1320.8	14.288	1575.3	12029.3	246.27	279.66	313.04	3413	12	254.5	794413.8	4147	4976.3	5391	4270.4	5172.6	5774.1	9142.3
120-1436	O	54	0.472	56.52	223.8	47.15	53.3	59.45	20	0.472	2.5	6041.7	932.4	1118.8	1212.1	960.1	1162.9	1298.2	2055.4
		1371.6	12	1435.6	12030.4	230.22	260.25	290.28	3413	12	64	825041.8	4147.3	4976.8	5391.5	4270.8	5173.1	5774.6	9143.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
120-1067	O	34	0.938	41.99	223.8	78.98	89.53	100.07	20	0.472	8	3805.4	932.7	1119.2	1212.5	960.5	1163.4	1298.7	2056.2
		863.6	23.812	1066.6	12034.8	385.62	437.1	488.58	3413	12	203	519661.5	4148.8	4978.6	5393.5	4272.3	5175	5776.7	9146.4
120-1131	O	34	1	44.51	224	79.87	90.64	101.41	20	0.472	10.5	3808.1	933.4	1120	1213.4	961.1	1164.2	1299.6	2057.6
		863.6	25.4	1130.6	12043.2	389.95	442.54	495.12	3413	12	267	520027.4	4151.8	4982.1	5397.3	4275.4	5178.6	5780.8	9152.9
120-1116	O	40	0.688	43.94	224.1	64.96	73.46	81.96	20	0.472	3.9	4481.3	933.6	1120.3	1213.7	961.4	1164.5	1299.9	2058.2
		1016	17.462	1116	12046.6	317.16	358.66	400.16	3413	12	100	611966.8	4152.9	4983.5	5398.8	4276.5	5180	5782.4	9155.4
121-1450	O	50	0.562	57.09	224.4	51.96	58.86	65.76	20	0.472	7.1	5611.2	935.2	1122.2	1215.8	963	1166.5	1302.1	2061.7
		1270	14.288	1450	12067	253.67	287.38	321.08	3413	12	180	766255.2	4160	4991.9	5407.9	4283.8	5188.8	5792.2	9170.9
121-993	O	32	1	39.09	224.7	84.26	95.39	106.52	20	0.472	7.1	3595.4	936.3	1123.6	1217.2	964.2	1167.9	1303.7	2064.2
		812.8	25.4	992.8	12081.4	411.41	465.75	520.08	3413	12	180	490987.1	4164.9	4997.9	5414.4	4288.9	5195	5799.1	9181.8
121-1625	O	56	0.5	63.99	224.8	46.62	52.89	59.16	20	0.472	8	6295.1	936.8	1124.1	1217.8	964.7	1168.5	1304.3	2065.2
		1422.4	12.7	1625.4	12087.3	227.63	258.23	288.84	3413	12	203	859646.9	4166.9	5000.3	5417	4291	5197.5	5801.9	9186.3
121-1474	O	48	0.625	58.02	224.9	55.11	62.57	70.03	20	0.472	10	5398.4	937.2	1124.7	1218.4	965.1	1169	1305	2066.2
		1219.2	15.875	1473.7	12093.3	269.09	305.5	341.92	3413	12	254.5	737205.7	4169	5002.8	5419.7	4293.1	5200.1	5804.8	9190.9
121-1334	O	42	0.75	52.51	225	63.67	72.29	80.92	20	0.472	10.5	4725.6	937.6	1125.2	1218.9	965.5	1169.5	1305.5	2067.1
		1066.8	19.05	1333.8	12098.4	310.86	352.97	395.09	3413	12	267	645328.4	4170.8	5004.9	5422	4294.9	5202.3	5807.2	9194.8
121-1351	O	44	0.688	53.17	225.1	60.27	68.39	76.51	20	0.472	9.2	4951.9	937.9	1125.4	1219.2	965.8	1169.8	1305.8	2067.6
		1117.6	17.462	1350.6	12101.3	294.29	333.92	373.55	3413	12	233	676223.2	4171.8	5006.1	5423.3	4296	5203.6	5808.6	9197
121-877	O	32	0.875	34.52	225.3	82.99	93.78	104.58	20	0.472	2.5	3604.6	938.7	1126.4	1220.3	966.6	1170.9	1307	2069.4
		812.8	22.225	876.8	12112.1	405.19	457.89	510.59	3413	12	64	492236.5	4175.5	5010.6	5428.2	4299.8	5208.2	5813.8	9205.2
121-1168	O	38	0.812	45.99	225.4	70.37	79.78	89.19	20	0.472	8	4283.3	939.3	1127.2	1221.1	967.3	1171.6	1307.9	2070.8
		965.2	20.638	1168.2	12120.3	343.57	389.51	435.45	3413	12	203	584923.8	4178.3	5014	5431.8	4302.7	5211.7	5817.7	9211.4
121-928	O	34	0.812	36.52	225.6	77.69	87.8	97.9	20	0.472	2.5	3834.6	939.9	1127.8	1221.8	967.8	1172.3	1308.6	2072
		863.6	20.638	927.6	12127.1	379.31	428.66	478	3413	12	64	523650.3	4180.7	5016.8	5434.9	4305.1	5214.7	5821	9216.6
121-1117	O	36	0.875	43.99	225.8	74.78	84.77	94.76	20	0.472	8	4064.4	940.8	1129	1223.1	968.8	1173.5	1310	2074.1
		914.4	22.225	1117.4	12139.7	365.11	413.88	462.64	3413	12	203	555025.1	4185	5022	5440.5	4309.6	5220.1	5827	9226.1
122-862	O	30	1	33.94	226	90.07	101.82	113.57	20	0.472	3.9	3390.6	941.8	1130.2	1224.4	969.9	1174.8	1311.4	2076.3
		762	25.4	862	12152.7	439.75	497.12	554.49	3413	12	100	463017.4	4189.5	5027.4	5446.3	4314.2	5225.7	5833.3	9236

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
122-1118	O	34	1	44.02	226.5	80.55	91.37	102.18	20	0.472	10	3850.7	943.8	1132.5	1226.9	971.9	1177.2	1314.1	2080.7
		863.6	25.4	1118.1	12177.9	393.26	446.09	498.91	3413	12	254.5	525841.2	4198.2	5037.8	5457.6	4323.1	5236.5	5845.4	9255.2
122-1554	O	52	0.562	61.17	226.8	50.98	57.86	64.73	20	0.472	9.2	5897.9	945.2	1134.2	1228.7	973.3	1178.9	1316	2083.7
		1320.8	14.288	1553.8	12195.7	248.89	282.47	316.06	3413	12	233	805406.1	4204.3	5045.2	5465.6	4329.5	5244.2	5854	9268.8
122-1196	O	40	0.75	47.09	227	66.54	75.35	84.17	20	0.472	7.1	4540.3	945.9	1135.1	1229.7	974	1179.8	1317	2085.3
		1016	19.05	1196	12205	324.88	367.91	410.94	3413	12	180	620015.1	4207.5	5049	5469.8	4332.8	5248.2	5858.4	9275.8
122-1319	O	48	0.562	51.94	227	54.27	61.38	68.49	20	0.472	3.9	5449	946	1135.2	1229.8	974.2	1180	1317.2	2085.5
		1219.2	14.288	1319.2	12206.4	264.99	299.69	334.38	3413	12	100	744103.2	4208	5049.6	5470.4	4333.3	5248.8	5859.1	9276.9
122-1385	O	52	0.5	54.52	227.1	49.75	56.24	62.72	20	0.472	2.5	5903.7	946.1	1135.3	1229.9	974.3	1180.1	1317.3	2085.7
		1320.8	12.7	1384.8	12207.7	242.91	274.57	306.23	3413	12	64	806195.8	4208.5	5050.1	5471	4333.7	5249.3	5859.7	9277.8
122-1522	O	56	0.472	59.94	227.1	46.26	52.32	58.38	20	0.472	3.9	6359.9	946.4	1135.7	1230.3	974.6	1180.5	1317.8	2086.4
		1422.4	12	1522.4	12211.8	225.86	255.45	285.04	3413	12	100	868503.7	4209.9	5051.8	5472.8	4335.2	5251.1	5861.7	9281
122-1321	O	42	0.75	52.02	227.2	64.09	72.74	81.38	20	0.472	10	4770.3	946.5	1135.8	1230.4	974.7	1180.6	1317.9	2086.6
		1066.8	19.05	1321.3	12212.9	312.92	355.13	397.35	3413	12	254.5	651433.4	4210.2	5052.3	5473.3	4335.6	5251.5	5862.2	9281.8
122-1181	O	36	0.938	46.51	227.6	76.15	86.42	96.69	20	0.472	10.5	4097.2	948.4	1138.1	1233	976.7	1183	1320.6	2090.9
		914.4	23.812	1181.4	12237.7	371.8	421.94	472.09	3413	12	267	559509.9	4218.8	5062.6	5484.5	4344.4	5262.2	5874.1	9300.7
122-1672	O	54	0.562	65.81	227.7	49.67	56.46	63.25	20	0.472	11.8	6146.8	948.6	1138.3	1233.2	976.8	1183.2	1320.8	2091.2
		1371.6	14.288	1671.6	12239.8	242.51	275.66	308.81	3413	12	300	839405.4	4219.5	5063.4	5485.4	4345.1	5263.1	5875.1	9302.2
123-1218	O	44	0.625	47.94	227.9	59.72	67.53	75.34	20	0.472	3.9	5014.9	949.8	1139.7	1234.7	978.1	1184.7	1322.4	2093.9
		1117.6	15.875	1217.6	12255.3	291.56	329.7	367.84	3413	12	100	684823.4	4224.9	5069.8	5492.3	4350.6	5269.8	5882.5	9314
123-1602	O	56	0.5	63.09	228.1	46.92	53.15	59.39	20	0.472	7.1	6385.4	950.2	1140.3	1235.3	978.5	1185.2	1323	2094.8
		1422.4	12.7	1602.4	12260.8	229.08	259.52	289.96	3413	12	180	871985.8	4226.8	5072.1	5494.8	4352.6	5272.1	5885.2	9318.2
123-1283	O	40	0.812	50.51	228.2	68.02	77.22	86.42	20	0.472	10.5	4563.5	950.7	1140.9	1236	979	1185.9	1323.8	2096
		1016	20.638	1283	12267.5	332.12	377.02	421.92	3413	12	267	623190.2	4229.1	5074.9	5497.8	4355	5275	5888.4	9323.3
123-1452	O	48	0.625	57.17	228.3	55.76	63.27	70.78	20	0.472	9.2	5478.4	951.1	1141.3	1236.4	979.4	1186.3	1324.3	2096.8
		1219.2	15.875	1452.2	12272.3	272.23	308.9	345.57	3413	12	233	748120.1	4230.7	5076.9	5499.9	4356.7	5277.1	5890.7	9327
123-1044	O	34	0.938	41.09	228.8	80.15	90.74	101.32	20	0.472	7.1	3889.3	953.3	1143.9	1239.2	981.6	1189	1327.3	2101.5
		863.6	23.812	1043.6	12300	391.34	443.02	494.71	3413	12	180	531114.4	4240.3	5088.3	5512.4	4366.5	5289	5904	9348

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
123-1232	O	38	0.875	48.51	229	72.19	81.94	91.68	20	0.472	10.5	4351.5	954.3	1145.1	1240.6	982.7	1190.3	1328.7	2103.8
		965.2	22.225	1232.2	12313.3	352.47	400.06	447.64	3413	12	267	594240.4	4244.9	5093.8	5518.3	4371.2	5294.7	5910.4	9358.1
123-1065	O	38	0.75	41.94	229.4	70.29	79.47	88.65	20	0.472	3.9	4357.7	955.6	1146.8	1242.3	984.1	1192	1330.6	2106.8
		965.2	19.05	1065.2	12330.8	343.16	388	432.84	3413	12	100	595086.4	4250.9	5101.1	5526.2	4377.4	5302.3	5918.8	9371.4
123-1570	O	50	0.625	61.81	229.5	54.21	61.61	69	20	0.472	11.8	5736.5	956.1	1147.3	1242.9	984.5	1192.5	1331.2	2107.8
		1270	15.875	1570	12336.5	264.69	300.8	336.91	3413	12	300	783369.4	4252.9	5103.4	5528.7	4379.5	5304.7	5921.5	9375.8
124-1145	O	38	0.812	45.09	230	71.26	80.69	90.11	20	0.472	7.1	4369.3	958.2	1149.8	1245.6	986.7	1195.2	1334.1	2112.4
		965.2	20.638	1145.2	12363.7	347.94	393.95	439.96	3413	12	180	596671.3	4262.2	5114.7	5540.9	4389.1	5316.4	5934.6	9396.4
124-1169	O	36	0.938	46.02	230.1	76.76	87.07	97.38	20	0.472	10	4141	958.6	1150.3	1246.1	987.1	1195.6	1334.7	2113.2
		914.4	23.812	1168.9	12368.6	374.77	425.12	475.47	3413	12	254.5	565493.2	4263.9	5116.7	5543.1	4390.9	5318.5	5936.9	9400.1
124-1321	O	44	0.688	51.99	230.2	61.38	69.6	77.81	20	0.472	8	5064.4	959.2	1151	1246.9	987.7	1196.4	1335.5	2114.5
		1117.6	17.462	1320.6	12376.3	299.71	339.82	379.93	3413	12	203	691584.9	4266.6	5119.9	5546.5	4393.6	5321.8	5940.6	9406
124-1824	O	60	0.5	71.81	230.4	45.08	51.25	57.41	20	0.472	11.8	6912	960	1152	1248	988.6	1197.4	1336.7	2116.4
		1524	12.7	1824	12387	220.09	250.2	280.32	3413	12	300	943892.5	4270.3	5124.3	5551.4	4397.4	5326.4	5945.8	9414.2
124-1271	O	40	0.812	50.02	230.4	68.5	77.73	86.95	20	0.472	10	4608.4	960.1	1152.1	1248.1	988.7	1197.5	1336.8	2116.6
		1016	20.638	1270.5	12388.2	334.47	379.5	424.54	3413	12	254.5	629321.5	4270.7	5124.8	5551.9	4397.8	5326.9	5946.3	9415
124-913	O	32	0.938	35.94	230.5	85.4	96.54	107.68	20	0.472	3.9	3687.9	960.4	1152.5	1248.5	989	1197.9	1337.2	2117.2
		812.8	23.812	912.8	12392	416.96	471.35	525.74	3413	12	100	503610.9	4272	5126.4	5553.6	4399.2	5328.6	5948.2	9417.9
124-1094	O	36	0.875	43.09	230.5	75.81	85.82	95.84	20	0.472	7.1	4149.8	960.6	1152.7	1248.8	989.2	1198.2	1337.5	2117.7
		914.4	22.225	1094.4	12394.8	370.13	419.03	467.94	3413	12	180	566689.5	4273	5127.5	5554.8	4400.1	5329.8	5949.5	9420
124-1472	O	54	0.5	57.94	230.7	48.77	55.16	61.54	20	0.472	3.9	6228.1	961.1	1153.4	1249.5	989.7	1198.8	1338.2	2118.9
		1371.6	12.7	1471.6	12401.6	238.12	269.3	300.47	3413	12	100	850502.9	4275.3	5130.4	5557.9	4402.6	5332.7	5952.8	9425.2
124-1300	O	42	0.75	51.17	230.9	64.96	73.68	82.41	20	0.472	9.2	4849.3	962.2	1154.6	1250.8	990.8	1200.1	1339.7	2121.1
		1066.8	19.05	1299.8	12414.9	317.15	359.75	402.35	3413	12	233	662208.8	4279.9	5135.8	5563.8	4407.3	5338.4	5959.1	9435.3
124-1097	O	34	1	43.17	231	81.9	92.85	103.81	20	0.472	9.2	3926.2	962.3	1154.7	1251	990.9	1200.3	1339.9	2121.4
		863.6	25.4	1096.6	12416.6	399.86	453.34	506.83	3413	12	233	536150.8	4280.5	5136.6	5564.6	4407.9	5339.2	5960	9436.7
124-1524	O	52	0.562	59.99	231.3	51.76	58.69	65.63	20	0.472	8	6014	963.8	1156.5	1252.9	992.5	1202.1	1341.9	2124.7
		1320.8	14.288	1523.8	12435.8	252.69	286.57	320.45	3413	12	203	821262.6	4287.1	5144.5	5573.2	4414.7	5347.4	5969.2	9451.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
124-1220	O	38	0.875	48.02	231.4	72.74	82.52	92.3	20	0.472	10	4396.1	964.1	1156.9	1253.3	992.8	1202.5	1342.3	2125.3
		965.2	22.225	1219.7	12439.5	355.13	402.88	450.63	3413	12	254.5	600330.4	4288.4	5146	5574.9	4416	5349	5971	9454
124-1080	O	40	0.688	42.52	231.5	66.88	75.58	84.28	20	0.472	2.5	4630.7	964.7	1157.7	1254.2	993.5	1203.3	1343.3	2126.8
		1016	17.462	1080	12448.1	326.52	369	411.47	3413	12	64	632365.7	4291.3	5149.6	5578.7	4419.1	5352.7	5975.1	9460.6
125-1014	O	36	0.812	39.94	232.2	75.48	85.34	95.19	20	0.472	3.9	4179.1	967.4	1160.9	1257.6	996.2	1206.7	1347	2132.7
		914.4	20.638	1014.4	12482.4	368.53	416.64	464.75	3413	12	100	570697	4303.2	5163.8	5594.1	4431.3	5367.4	5991.6	9486.7
125-1639	O	54	0.562	64.51	232.2	50.43	57.27	64.12	20	0.472	10.5	6270.6	967.7	1161.2	1258	996.5	1207	1347.4	2133.3
		1371.6	14.288	1638.6	12486.3	246.21	279.64	313.06	3413	12	267	856310.3	4304.5	5165.4	5595.8	4432.6	5369.1	5993.4	9489.6
125-964	O	34	0.875	37.94	232.5	80.53	91.03	101.54	20	0.472	3.9	3953.3	968.9	1162.7	1259.6	997.8	1208.6	1349.1	2136.1
		863.6	22.225	963.6	12502.4	393.17	444.47	495.77	3413	12	100	539854.7	4310.1	5172.1	5603.1	4438.4	5376	6001.2	9501.8
125-1486	O	56	0.472	58.52	232.6	47.2	53.35	59.49	20	0.472	2.5	6514	969.3	1163.2	1260.1	998.2	1209.1	1349.7	2137
		1422.4	12	1486.4	12507.6	230.45	260.46	290.47	3413	12	64	889538.5	4311.8	5174.2	5605.4	4440.2	5378.3	6003.6	9505.8
125-1418	O	44	0.75	55.81	232.9	62.94	71.5	80.05	20	0.472	11.8	5124.7	970.6	1164.7	1261.8	999.5	1210.6	1351.4	2139.7
		1117.6	19.05	1417.6	12523.8	307.32	349.08	390.84	3413	12	300	699827.9	4317.4	5180.9	5612.6	4445.9	5385.2	6011.4	9518.1
125-1422	O	48	0.625	55.99	233.1	56.69	64.28	71.87	20	0.472	8	5593.9	971.2	1165.4	1262.5	1000.1	1211.4	1352.2	2141
		1219.2	15.875	1422.2	12531.2	276.79	313.85	350.91	3413	12	203	763901	4320	5184	5616	4448.6	5388.4	6015	9523.7
125-1283	O	48	0.562	50.52	233.4	55.59	62.82	70.06	20	0.472	2.5	5601.8	972.5	1167	1264.3	1001.5	1213.1	1354.1	2144
		1219.2	14.288	1283.2	12548.9	271.4	306.73	342.05	3413	12	64	764979	4326.1	5191.3	5623.9	4454.8	5396	6023.5	9537.1
126-1626	O	54	0.562	64.02	234	50.67	57.52	64.37	20	0.472	10	6318.8	975.1	1170.2	1267.7	1004.2	1216.3	1357.7	2149.7
		1371.6	14.288	1626.1	12582.3	247.38	280.83	314.27	3413	12	254.5	862892.8	4337.6	5205.1	5638.9	4466.7	5410.4	6039.5	9562.5
126-1298	O	44	0.688	51.09	234.3	62.01	70.22	78.43	20	0.472	7.1	5154.1	976.2	1171.4	1269	1005.2	1217.6	1359.2	2152
		1117.6	17.462	1297.6	12595.6	302.78	342.85	382.93	3413	12	180	703843.2	4342.2	5210.6	5644.8	4471.4	5416.1	6045.9	9572.7
126-1147	O	36	0.938	45.17	234.4	77.98	88.41	98.85	20	0.472	9.2	4218.6	976.5	1171.8	1269.5	1005.6	1218.1	1359.7	2152.8
		914.4	23.812	1147.4	12600.4	380.72	431.66	482.6	3413	12	233	576089.4	4343.8	5212.6	5647	4473.1	5418.2	6048.2	9576.3
126-1537	O	50	0.625	60.51	234.4	55.12	62.59	70.06	20	0.472	10.5	5859.7	976.6	1171.9	1269.6	1005.7	1218.1	1359.8	2153
		1270	15.875	1537	12601.4	269.12	305.58	342.05	3413	12	267	800188.7	4344.2	5213	5647.4	4473.5	5418.6	6048.7	9577.1
126-1249	O	40	0.812	49.17	234.4	69.48	78.8	88.11	20	0.472	9.2	4687.8	976.6	1171.9	1269.6	1005.7	1218.2	1359.8	2153
		1016	20.638	1249	12601.5	339.25	384.73	430.21	3413	12	233	640154.5	4344.2	5213	5647.5	4473.5	5418.6	6048.7	9577.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
126-1791	O	60	0.5	70.51	234.6	45.69	51.9	58.1	20	0.472	10.5	7039.3	977.7	1173.2	1271	1006.8	1219.5	1361.3	2155.4
		1524	12.7	1791	12615.3	223.07	253.37	283.68	3413	12	267	961284.2	4349	5218.8	5653.7	4478.4	5424.6	6055.3	9587.6
126-1501	O	52	0.562	59.09	234.9	52.15	59.07	65.98	20	0.472	7.1	6106.1	978.5	1174.3	1272.1	1007.7	1220.6	1362.5	2157.3
		1320.8	14.288	1500.8	12626.4	254.63	288.38	322.14	3413	12	180	833848.6	4352.8	5223.4	5658.6	4482.4	5429.4	6060.7	9596.1
126-1182	O	44	0.625	46.52	234.9	61.31	69.28	77.26	20	0.472	2.5	5167.6	978.7	1174.5	1272.3	1007.9	1220.8	1362.7	2157.7
		1117.6	15.875	1181.6	12628.6	299.33	338.26	377.2	3413	12	64	705688.1	4353.6	5224.3	5659.6	4483.2	5430.3	6061.7	9597.8
126-1214	O	36	1	47.81	235	78.98	89.65	100.32	20	0.472	11.8	4229.3	979	1174.8	1272.7	1008.2	1221.1	1363.1	2158.3
		914.4	25.4	1214.4	12632.4	385.6	437.7	489.81	3413	12	300	577552.6	4354.9	5225.8	5661.3	4484.5	5431.9	6063.5	9600.6
126-1214	O	36	1	47.81	235	78.98	89.65	100.32	20	0.472	11.8	4229.3	979	1174.8	1272.7	1008.2	1221.1	1363.1	2158.3
		914.4	25.4	1214.4	12632.4	385.6	437.7	489.81	3413	12	300	577552.7	4354.9	5225.8	5661.3	4484.5	5431.9	6063.5	9600.6
127-1198	O	38	0.875	47.17	235.5	73.83	83.72	93.6	20	0.472	9.2	4475	981.4	1177.6	1275.8	1010.6	1224.1	1366.4	2163.5
		965.2	22.225	1198.2	12662.7	360.48	408.74	457.01	3413	12	233	611102.5	4365.3	5238.4	5674.9	4495.3	5445	6078.1	9623.7
127-826	O	30	1	32.52	235.9	93.67	105.82	117.97	20	0.472	2.5	3538.4	982.9	1179.5	1277.7	1012.1	1226	1368.5	2166.8
		762	25.4	826	12682.3	457.32	516.66	576	3413	12	64	483197.3	4372.1	5246.5	5683.7	4502.2	5453.4	6087.5	9638.6
127-1779	O	60	0.5	70.02	236.3	45.87	52.08	58.29	20	0.472	10	7088.8	984.6	1181.5	1279.9	1013.9	1228.1	1370.9	2170.5
		1524	12.7	1778.5	12703.9	223.98	254.28	284.58	3413	12	254.5	968040.5	4379.5	5255.4	5693.4	4509.9	5462.7	6097.9	9655
127-1525	O	50	0.625	60.02	236.3	55.41	62.89	70.37	20	0.472	10	5907.7	984.6	1181.5	1280	1013.9	1228.1	1370.9	2170.7
		1270	15.875	1524.5	12704.7	270.56	307.06	343.57	3413	12	254.5	806749.8	4379.8	5255.8	5693.7	4510.2	5463	6098.3	9655.6
127-1270	O	42	0.75	49.99	236.4	66.22	75.06	83.91	20	0.472	8	4963.8	984.9	1181.9	1280.4	1014.2	1228.5	1371.3	2171.3
		1066.8	19.05	1269.8	12708.2	323.33	366.49	409.66	3413	12	203	677854	4381	5257.2	5695.3	4511.4	5464.5	6099.9	9658.2
127-1436	O	54	0.5	56.52	236.5	49.81	56.29	62.77	20	0.472	2.5	6384.3	985.2	1182.3	1280.8	1014.6	1228.9	1371.8	2172
		1371.6	12.7	1435.6	12712.6	243.18	274.83	306.48	3413	12	64	871830.6	4382.5	5259	5697.3	4513	5466.4	6102.1	9661.6
127-976	O	34.5	0.875	38.44	236.6	80.65	91.16	101.68	20	0.472	3.9	4081.1	985.8	1182.9	1281.5	1015.1	1229.6	1372.6	2173.2
		876.3	22.225	976.3	12719.7	393.76	445.11	496.45	3413	12	100	557314.6	4385	5262	5700.5	4515.5	5469.5	6105.5	9667
127-1367	O	42	0.812	53.81	236.8	67.24	76.36	85.48	20	0.472	11.8	4973.5	986.8	1184.2	1282.8	1016.2	1230.9	1374	2175.5
		1066.8	20.638	1366.8	12732.8	328.31	372.82	417.33	3413	12	300	679169.6	4389.5	5267.4	5706.3	4520.2	5475.1	6111.8	9677
127-1167	O	42	0.688	45.94	236.9	65.2	73.72	82.23	20	0.472	3.9	4974.1	986.9	1184.3	1283	1016.3	1231	1374.2	2175.8
		1066.8	17.462	1166.8	12734.5	318.35	359.92	401.49	3413	12	100	679259.5	4390.1	5268.1	5707.1	4520.8	5475.8	6112.6	9678.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
127-1399	O	48	0.625	55.09	236.9	57.2	64.77	72.34	20	0.472	7.1	5685.9	987.1	1184.6	1283.3	1016.5	1231.3	1374.4	2176.2
		1219.2	15.875	1399.2	12737.2	279.27	316.24	353.21	3413	12	180	776458	4391	5269.2	5708.3	4521.7	5477	6113.8	9680.3
128-1605	O	54	0.562	63.17	237.2	51.19	58.08	64.97	20	0.472	9.2	6403.5	988.2	1185.8	1284.7	1017.6	1232.6	1375.9	2178.5
		1371.6	14.288	1604.6	12750.9	249.93	283.57	317.21	3413	12	233	874454.7	4395.7	5274.8	5714.4	4526.6	5482.9	6120.4	9690.7
128-1029	O	38	0.75	40.52	237.4	72.48	81.9	91.32	20	0.472	2.5	4510.2	989.1	1186.9	1285.8	1018.5	1233.7	1377.1	2180.5
		965.2	19.05	1029.2	12762.2	353.89	399.87	445.85	3413	12	64	615901.7	4399.6	5279.5	5719.5	4530.6	5487.7	6125.8	9699.2
128-1067	O	34	1	41.99	237.4	83.88	95.04	106.19	20	0.472	8	4036.6	989.4	1187.2	1286.2	1018.8	1234.1	1377.5	2181.1
		863.6	25.4	1066.6	12765.9	409.54	464.01	518.47	3413	12	203	551231	4400.9	5281.1	5721.1	4531.9	5489.3	6127.6	9702.1
128-1370	O	50	0.562	53.94	237.6	54.4	61.51	68.62	20	0.472	3.9	5938.8	989.8	1187.8	1286.7	1019.3	1234.6	1378.2	2182.1
		1270	14.288	1370	12771.7	265.62	300.33	335.05	3413	12	100	811000	4402.9	5283.4	5723.7	4533.9	5491.8	6130.4	9706.5
128-1265	O	38	0.938	49.81	237.8	75.28	85.46	95.64	20	0.472	11.8	4518.2	990.8	1189	1288.1	1020.3	1235.9	1379.6	2184.4
		965.2	23.812	1265.2	12785	367.56	417.26	466.95	3413	12	300	617005.2	4407.5	5289	5729.7	4538.7	5497.6	6136.8	9716.6
128-1722	O	56	0.562	67.81	237.9	49.91	56.71	63.51	20	0.472	11.8	6660.7	991.2	1189.4	1288.5	1020.7	1236.3	1380.1	2185.1
		1422.4	14.288	1722.4	12789.3	243.67	276.88	310.09	3413	12	300	909573.9	4409	5290.7	5731.6	4540.2	5499.4	6138.9	9719.9
128-1316	O	40	0.875	51.81	238.4	71.36	81.02	90.68	20	0.472	11.8	4768.8	993.5	1192.2	1291.5	1023.1	1239.2	1383.3	2190.2
		1016	22.225	1316	12819.3	348.42	395.58	442.74	3413	12	300	651218.8	4419.3	5303.1	5745.1	4550.8	5512.3	6153.2	9742.6
128-1385	O	44	0.75	54.51	238.5	64.16	72.82	81.48	20	0.472	10.5	5246.9	993.7	1192.5	1291.8	1023.3	1239.5	1383.6	2190.7
		1117.6	19.05	1384.6	12822.2	313.25	355.54	397.83	3413	12	267	716507.3	4420.3	5304.4	5746.4	4551.9	5513.6	6154.7	9744.9
129-1519	O	48	0.688	59.81	239.1	58.89	66.89	74.89	20	0.472	11.8	5737.9	996.2	1195.4	1295	1025.8	1242.5	1387	2196.1
		1219.2	17.462	1519.2	12853.6	287.52	326.58	365.64	3413	12	300	783557.1	4431.1	5317.4	5760.5	4563	5527.1	6169.7	9768.8
129-1757	O	60	0.5	69.17	239.2	46.29	52.53	58.76	20	0.472	9.2	7175.6	996.6	1195.9	1295.6	1026.3	1243.1	1387.6	2197.1
		1524	12.7	1757	12859.4	226.02	256.46	286.9	3413	12	233	979886.2	4433.1	5319.7	5763.1	4565.1	5529.5	6172.5	9773.1
129-1503	O	50	0.625	59.17	239.7	56.04	63.57	71.1	20	0.472	9.2	5992.2	998.7	1198.4	1298.3	1028.4	1245.7	1390.6	2201.7
		1270	15.875	1503	12886.5	273.61	310.37	347.13	3413	12	233	818290.1	4442.5	5330.9	5775.2	4574.7	5541.2	6185.5	9793.7
129-877	O	32	0.938	34.52	240	88.6	100.09	111.59	20	0.472	2.5	3839.3	999.8	1199.8	1299.8	1029.6	1247.1	1392.1	2204.2
		812.8	23.812	876.8	12900.8	432.58	488.71	544.83	3413	12	64	524288.3	4447.4	5336.9	5781.6	4579.8	5547.3	6192.4	9804.6
129-1522	O	56	0.5	59.94	240	48.86	55.24	61.63	20	0.472	3.9	6721	1000.1	1200.2	1300.2	1029.9	1247.5	1392.6	2204.9
		1422.4	12.7	1522.4	12905.1	238.54	269.72	300.89	3413	12	100	917807.4	4448.9	5338.6	5783.5	4581.3	5549.2	6194.4	9807.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
129-1219	O	40	0.812	47.99	240.2	70.91	80.36	89.81	20	0.472	8	4803.1	1000.7	1200.8	1300.8	1030.4	1248.1	1393.3	2206
		1016	20.638	1219	12911.6	346.22	392.37	438.51	3413	12	203	655908.9	4451.1	5341.3	5786.4	4583.6	5552	6197.6	9812.8
129-1117	O	36	0.938	43.99	240.7	79.77	90.38	100.99	20	0.472	8	4331.9	1002.7	1203.3	1303.6	1032.6	1250.8	1396.2	2210.6
		914.4	23.812	1117.4	12938.7	389.45	441.26	493.07	3413	12	203	591556.3	4460.5	5352.5	5798.6	4593.2	5563.6	6210.6	9833.4
129-1372	O	44	0.75	54.02	240.7	64.57	73.25	81.93	20	0.472	10	5294.7	1002.8	1203.3	1303.6	1032.6	1250.8	1396.2	2210.7
		1117.6	19.05	1372.1	12939.1	315.25	357.64	400.03	3413	12	254.5	723034.8	4460.6	5352.7	5798.8	4593.4	5563.8	6210.7	9833.7
129-978	O	36	0.812	38.52	240.7	77.98	88.11	98.23	20	0.472	2.5	4332.9	1003	1203.6	1303.9	1032.8	1251	1396.5	2211.2
		914.4	20.638	978.4	12941.7	380.75	430.18	479.61	3413	12	64	591695.6	4461.5	5353.8	5800	4594.3	5564.9	6212	9835.7
129-1247	O	42	0.75	49.09	240.7	66.97	75.81	84.66	20	0.472	7.1	5055.4	1003.1	1203.7	1304	1032.9	1251.1	1396.6	2211.3
		1066.8	19.05	1246.8	12942.6	326.96	370.15	413.33	3413	12	180	690358.5	4461.8	5354.2	5800.3	4594.6	5565.3	6212.5	9836.4
129-1621	O	52	0.625	63.81	240.8	54.52	61.94	69.35	20	0.472	11.8	6259.6	1003.1	1203.8	1304.1	1033	1251.2	1396.7	2211.5
		1320.8	15.875	1620.8	12943.7	266.21	302.42	338.62	3413	12	300	854800.1	4462.2	5354.6	5800.8	4595	5565.8	6213	9837.2
130-1181	O	36	1	46.51	241.5	80.85	91.71	102.56	20	0.472	10.5	4347.5	1006.4	1207.6	1308.3	1036.3	1255.3	1401.2	2218.6
		914.4	25.4	1181.4	12985.2	394.73	447.75	500.77	3413	12	267	593685.3	4476.5	5371.8	5819.5	4609.8	5583.7	6232.9	9868.8
130-1181	O	36	1	46.51	241.5	80.85	91.71	102.56	20	0.472	10.5	4347.5	1006.4	1207.6	1308.3	1036.3	1255.3	1401.2	2218.6
		914.4	25.4	1181.4	12985.2	394.73	447.75	500.77	3413	12	267	593685.5	4476.5	5371.8	5819.5	4609.8	5583.7	6232.9	9868.8
130-928	O	34	0.875	36.52	241.6	83.36	94.18	105	20	0.472	2.5	4106.7	1006.5	1207.9	1308.5	1036.5	1255.5	1401.5	2219
		863.6	22.225	927.6	12987.6	407.02	459.83	512.64	3413	12	64	560806.4	4477.3	5372.8	5820.5	4610.6	5584.7	6234.1	9870.6
130-1168	O	38	0.875	45.99	241.6	75.43	85.48	95.52	20	0.472	8	4589.9	1006.6	1207.9	1308.5	1036.5	1255.5	1401.5	2219
		965.2	22.225	1168.2	12987.9	368.3	417.33	466.36	3413	12	203	626795.9	4477.4	5372.9	5820.6	4610.7	5584.8	6234.2	9870.8
130-1575	O	54	0.562	61.99	241.7	51.95	58.9	65.84	20	0.472	8	6525.5	1007	1208.4	1309.1	1037	1256.1	1402.1	2220.1
		1371.6	14.288	1574.6	12993.8	253.63	287.56	321.48	3413	12	203	891115.2	4479.5	5375.3	5823.3	4612.8	5587.3	6237	9875.3
130-1689	O	56	0.562	66.51	242.5	50.65	57.5	64.36	20	0.472	10.5	6790.8	1010.5	1212.6	1313.7	1040.6	1260.5	1407	2227.8
		1422.4	14.288	1689.4	13039.1	247.28	280.76	314.24	3413	12	267	927341.1	4495.1	5394.1	5843.6	4628.9	5606.8	6258.8	9909.7
130-1044	O	34	1	41.09	242.7	85.16	96.37	107.58	20	0.472	7.1	4125.5	1011.2	1213.4	1314.5	1041.3	1261.2	1407.9	2229.2
		863.6	25.4	1043.6	13047.2	415.78	470.52	525.26	3413	12	180	563379.6	4497.9	5397.4	5847.2	4631.8	5610.3	6262.7	9915.9
130-1334	O	42	0.812	52.51	242.7	68.61	77.85	87.1	20	0.472	10.5	5096.5	1011.2	1213.5	1314.6	1041.3	1261.3	1408	2229.3
		1066.8	20.638	1333.8	13047.9	334.98	380.11	425.24	3413	12	267	695973.2	4498.1	5397.7	5847.5	4632	5610.6	6263	9916.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
131-1116	O	40	0.75	43.94	243.3	70.59	79.79	89	20	0.472	3.9	4865.7	1013.7	1216.4	1317.8	1043.9	1264.4	1411.4	2234.8
		1016	19.05	1116	13079.9	344.65	389.59	434.52	3413	12	100	664460.6	4509.1	5411	5861.9	4643.4	5624.4	6278.4	9940.7
131-1727	O	60	0.5	67.99	243.3	46.9	53.18	59.45	20	0.472	8	7300.2	1013.9	1216.7	1318.1	1044.1	1264.7	1411.7	2235.3
		1524	12.7	1727	13082.8	228.98	259.62	290.27	3413	12	203	996907.9	4510.1	5412.2	5863.2	4644.4	5625.6	6279.7	9942.9
131-1334	O	50	0.562	52.52	244	55.67	62.9	70.14	20	0.472	2.5	6099.1	1016.5	1219.8	1321.5	1046.8	1267.9	1415.4	2241
		1270	14.288	1334	13116.3	271.8	307.12	342.45	3413	12	64	832886.1	4521.7	5426	5878.2	4656.3	5640	6295.8	9968.4
131-1169	O	36	1	46.02	244.1	81.51	92.41	103.32	20	0.472	10	4394	1017.1	1220.5	1322.3	1047.4	1268.7	1416.2	2242.3
		914.4	25.4	1168.9	13124.1	397.95	451.2	504.45	3413	12	254.5	600034.1	4524.4	5429.2	5881.7	4659.1	5643.4	6299.6	9974.3
131-1169	O	36	1	46.02	244.1	81.51	92.41	103.32	20	0.472	10	4394	1017.1	1220.5	1322.3	1047.4	1268.7	1416.2	2242.3
		914.4	25.4	1168.9	13124.1	397.95	451.2	504.45	3413	12	254.5	600034.2	4524.4	5429.2	5881.7	4659.1	5643.4	6299.6	9974.3
131-1232	O	38	0.938	48.51	244.2	76.98	87.32	97.66	20	0.472	10.5	4639.2	1017.4	1220.9	1322.6	1047.7	1269	1416.6	2242.9
		965.2	23.812	1232.2	13127.4	375.84	426.34	476.84	3413	12	267	633529.5	4525.5	5430.6	5883.2	4660.2	5644.8	6301.2	9976.8
131-1677	O	56	0.562	66.02	244.3	50.88	57.74	64.6	20	0.472	10	6841.4	1018.1	1221.7	1323.5	1048.4	1269.9	1417.5	2244.4
		1422.4	14.288	1676.9	13136.3	248.43	281.93	315.42	3413	12	254.5	934253.7	4528.6	5434.3	5887.2	4663.4	5648.6	6305.4	9983.6
131-1486	O	48	0.688	58.51	244.4	59.93	68.02	76.11	20	0.472	10.5	5865.3	1018.3	1221.9	1323.8	1048.6	1270.1	1417.8	2244.9
		1219.2	17.462	1486.2	13139	292.6	332.1	371.59	3413	12	267	800955.5	4529.5	5435.4	5888.4	4664.4	5649.8	6306.7	9985.7
131-1131	O	42	0.688	44.52	244.4	67.04	75.75	84.45	20	0.472	2.5	5132.5	1018.3	1222	1323.9	1048.7	1270.2	1417.9	2245
		1066.8	17.462	1130.8	13139.9	327.33	369.83	412.34	3413	12	64	700884.3	4529.8	5435.8	5888.8	4664.7	5650.2	6307.2	9986.4
131-913	O	32	1	35.94	244.4	90.77	102.58	114.39	20	0.472	3.9	3910.5	1018.4	1222	1323.9	1048.7	1270.2	1417.9	2245.1
		812.8	25.4	912.8	13140.2	443.16	500.83	558.49	3413	12	100	534018.4	4529.9	5435.9	5888.9	4664.8	5650.3	6307.3	9986.6
131-1351	O	44	0.75	53.17	244.5	65.41	74.17	82.93	20	0.472	9.2	5379	1018.7	1222.5	1324.4	1049.1	1270.7	1418.5	2245.9
		1117.6	19.05	1350.6	13145	319.36	362.12	404.89	3413	12	233	734544.6	4531.6	5437.9	5891.1	4666.5	5652.4	6309.6	9990.2
131-1473	O	50	0.625	57.99	244.6	56.95	64.55	72.16	20	0.472	8	6114.3	1019	1222.8	1324.8	1049.4	1271.1	1418.9	2246.6
		1270	15.875	1473	13148.9	278.05	315.18	352.31	3413	12	203	834955.9	4532.9	5439.5	5892.8	4667.9	5654	6311.5	9993.2
131-1283	O	40	0.875	50.51	244.6	72.89	82.69	92.5	20	0.472	10.5	4891.4	1019	1222.9	1324.8	1049.4	1271.1	1418.9	2246.6
		1016	22.225	1283	13149	355.88	403.75	451.62	3413	12	267	667968.8	4533	5439.5	5892.8	4667.9	5654.1	6311.5	9993.2
132-1196	O	40	0.812	47.09	244.8	71.78	81.24	90.71	20	0.472	7.1	4895.5	1019.9	1223.9	1325.9	1050.3	1272.1	1420.1	2248.4
		1016	20.638	1196	13159.9	350.45	396.67	442.89	3413	12	180	668522.6	4536.7	5444.1	5897.7	4671.8	5658.8	6316.7	10001.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
132-1321	O	42	0.812	52.02	245	69.08	78.35	87.62	20	0.472	10	5144.7	1020.8	1224.9	1327	1051.2	1273.2	1421.3	2250.4
		1066.8	20.638	1321.3	13171.3	337.26	382.52	427.78	3413	12	254.5	702557.3	4540.6	5448.8	5902.8	4675.8	5663.7	6322.2	10010.2
132-1552	O	54	0.562	61.09	245.3	52.33	59.26	66.18	20	0.472	7.1	6622.2	1021.9	1226.3	1328.5	1052.4	1274.7	1422.9	2253
		1371.6	14.288	1551.6	13186.4	255.52	289.32	323.12	3413	12	180	904324.6	4545.9	5455	5909.6	4681.2	5670.2	6329.5	10021.7
132-940	O	34.5	0.875	37.02	245.6	83.45	94.27	105.1	20	0.472	2.5	4237.4	1023.5	1228.2	1330.6	1054	1276.7	1425.1	2256.4
		876.3	22.225	940.3	13206.7	407.44	460.28	513.12	3413	12	64	578651.7	4552.9	5463.4	5918.7	4688.4	5678.9	6339.2	10037.1
132-1094	O	36	0.938	43.09	245.7	80.9	91.55	102.2	20	0.472	7.1	4422.9	1023.8	1228.6	1331	1054.3	1277	1425.5	2257.1
		914.4	23.812	1094.4	13210.6	394.98	446.99	499	3413	12	180	603988.5	4554.2	5465	5920.4	4689.8	5680.6	6341.1	10040.1
132-1588	O	52	0.625	62.51	245.8	55.41	62.89	70.38	20	0.472	10.5	6389.7	1024	1228.8	1331.2	1054.5	1277.2	1425.8	2257.5
		1320.8	15.875	1587.8	13212.7	270.53	307.08	343.63	3413	12	267	872565.8	4554.9	5465.9	5921.4	4690.5	5681.5	6342.1	10041.6
132-1486	O	56	0.5	58.52	245.8	49.86	56.34	62.82	20	0.472	2.5	6883.7	1024.4	1229.2	1331.7	1054.9	1277.7	1426.3	2258.3
		1422.4	12.7	1486.4	13217.6	243.43	275.07	306.71	3413	12	64	940036.3	4556.6	5467.9	5923.6	4692.3	5683.6	6344.5	10045.4
132-1145	O	38	0.875	45.09	246.4	76.43	86.5	96.57	20	0.472	7.1	4682.1	1026.8	1232.1	1334.8	1057.3	1280.7	1429.6	2263.6
		965.2	22.225	1145.2	13248.7	373.16	422.33	471.5	3413	12	180	639384.4	4567.3	5480.8	5937.5	4703.3	5697	6359.4	10069
133-1474	O	48	0.688	58.02	246.5	60.28	68.38	76.48	20	0.472	10	5915	1026.9	1232.3	1335	1057.5	1280.9	1429.8	2263.9
		1219.2	17.462	1473.7	13250.5	294.29	333.86	373.42	3413	12	254.5	807749.2	4567.9	5481.5	5938.3	4703.9	5697.7	6360.2	10070.4
133-1704	O	60	0.5	67.09	246.6	47.18	53.43	59.67	20	0.472	7.1	7398.7	1027.6	1233.1	1335.9	1058.2	1281.8	1430.8	2265.4
		1524	12.7	1704	13259.4	230.36	260.85	291.34	3413	12	180	1010363.8	4571	5485.2	5942.3	4707.1	5701.5	6364.5	10077.1
133-1220	O	38	0.938	48.02	246.7	77.57	87.95	98.34	20	0.472	10	4686.8	1027.8	1233.4	1336.1	1058.4	1282	1431.1	2265.9
		965.2	23.812	1219.7	13262	378.73	429.43	480.13	3413	12	254.5	640022.1	4571.9	5486.3	5943.5	4708	5702.6	6365.7	10079.1
133-1271	O	40	0.875	50.02	247	73.42	83.26	93.09	20	0.472	10	4939.6	1029.1	1234.9	1337.8	1059.7	1283.6	1432.8	2268.7
		1016	22.225	1270.5	13278.4	358.46	406.49	454.52	3413	12	254.5	674540.7	4577.6	5493.1	5950.8	4713.8	5709.7	6373.6	10091.6
133-1065	O	38	0.812	41.94	247.2	75.86	85.74	95.62	20	0.472	3.9	4697.5	1030.2	1236.2	1339.2	1060.8	1284.9	1434.3	2271
		965.2	20.638	1065.2	13292.2	370.38	418.62	466.86	3413	12	100	641483.3	4582.3	5498.8	5957	4718.7	5715.7	6380.3	10102.1
133-1655	O	56	0.562	65.17	247.5	51.39	58.29	65.19	20	0.472	9.2	6930.3	1031.3	1237.5	1340.7	1062	1286.4	1435.9	2273.5
		1422.4	14.288	1655.4	13306.9	250.91	284.6	318.29	3413	12	233	946387.6	4587.4	5504.9	5963.6	4724	5722	6387.3	10113.3
133-1575	O	52	0.625	62.02	247.7	55.7	63.19	70.69	20	0.472	10	6440.4	1032.1	1238.5	1341.7	1062.8	1287.4	1437.1	2275.4
		1320.8	15.875	1575.3	13317.5	271.93	308.52	345.12	3413	12	254.5	879489.6	4591.1	5509.3	5968.4	4727.7	5726.5	6392.4	10121.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
133-964	O	34	0.938	37.94	247.8	85.97	97.16	108.34	20	0.472	3.9	4212.2	1032.4	1238.9	1342.1	1063.1	1287.7	1437.5	2276
		863.6	23.812	963.6	13321.2	419.75	474.37	528.98	3413	12	100	575208.6	4592.3	5510.8	5970	4729	5728.1	6394.2	10124.1
133-1421	O	52	0.562	55.94	248.1	54.52	61.64	68.75	20	0.472	3.9	6450	1033.6	1240.4	1343.7	1064.4	1289.3	1439.2	2278.8
		1320.8	14.288	1420.8	13337.4	266.2	300.93	335.66	3413	12	100	880799.5	4597.9	5517.5	5977.3	4734.8	5735.1	6401.9	10136.4
134-1450	O	50	0.625	57.09	248.4	57.44	65.03	72.62	20	0.472	7.1	6211.2	1035.2	1242.2	1345.8	1066	1291.2	1441.4	2282.2
		1270	15.875	1450	13357.5	280.45	317.5	354.55	3413	12	180	848200	4604.8	5525.8	5986.3	4741.9	5743.7	6411.6	10151.7
134-1147	O	36	1	45.17	248.7	82.82	93.85	104.89	20	0.472	9.2	4476.3	1036.2	1243.4	1347	1067	1292.5	1442.7	2284.3
		914.4	25.4	1147.4	13370	404.34	458.23	512.12	3413	12	233	611277.5	4609.2	5531	5991.9	4746.4	5749.1	6417.6	10161.2
134-1147	O	36	1	45.17	248.7	82.82	93.85	104.89	20	0.472	9.2	4476.3	1036.2	1243.4	1347	1067	1292.5	1442.7	2284.3
		914.4	25.4	1147.4	13370	404.34	458.23	512.12	3413	12	233	611277.7	4609.2	5531	5991.9	4746.4	5749.1	6417.6	10161.2
134-1014	O	36	0.875	39.94	248.7	80.99	91.54	102.08	20	0.472	3.9	4477.1	1036.4	1243.6	1347.3	1067.2	1292.7	1443	2284.7
		914.4	22.225	1014.4	13372.3	395.44	446.91	498.39	3413	12	100	611381.1	4609.9	5531.9	5992.9	4747.2	5750.1	6418.7	10162.9
134-1300	O	42	0.812	51.17	249	70.03	79.39	88.74	20	0.472	9.2	5229.8	1037.7	1245.2	1349	1068.6	1294.3	1444.8	2287.6
		1066.8	20.638	1299.8	13389.2	341.9	387.59	433.29	3413	12	233	714178.3	4615.8	5538.9	6000.5	4753.2	5757.3	6426.8	10175.8
134-1218	O	44	0.688	47.94	249.7	65.43	73.95	82.48	20	0.472	3.9	5492.8	1040.3	1248.4	1352.4	1071.3	1297.6	1448.5	2293.4
		1117.6	17.462	1217.6	13423.2	319.45	361.08	402.71	3413	12	100	750087.9	4627.5	5553	6015.7	4765.2	5772	6443.1	10201.6
134-1321	O	44	0.75	51.99	250.1	66.64	75.51	84.38	20	0.472	8	5501.2	1041.9	1250.3	1354.4	1072.9	1299.6	1450.7	2296.9
		1117.6	19.05	1320.6	13443.7	325.35	368.66	411.98	3413	12	203	751231.3	4634.5	5561.4	6024.9	4772.5	5780.8	6453	10217.2
134-1452	O	48	0.688	57.17	250.1	60.99	69.16	77.33	20	0.472	9.2	6002.6	1042.1	1250.5	1354.8	1073.1	1299.9	1451	2297.4
		1219.2	17.462	1452.2	13446.7	297.8	337.67	377.54	3413	12	233	819708	4635.6	5562.7	6026.2	4773.6	5782.1	6454.4	10219.5
135-1198	O	38	0.938	47.17	251.1	78.75	89.25	99.75	20	0.472	9.2	4770.9	1046.2	1255.5	1360.1	1077.4	1305	1456.8	2306.5
		965.2	23.812	1198.2	13499.9	384.5	435.77	487.04	3413	12	233	651506.4	4653.9	5584.7	6050.1	4792.5	5805	6480	10259.9
135-1554	O	52	0.625	61.17	251.1	56.31	63.85	71.39	20	0.472	9.2	6529.5	1046.4	1255.7	1360.3	1077.5	1305.2	1457	2306.8
		1320.8	15.875	1553.8	13501.8	274.91	311.74	348.58	3413	12	233	891659.2	4654.6	5585.5	6051	4793.1	5805.8	6480.9	10261.4
135-1249	O	40	0.875	49.17	251.2	74.48	84.42	94.36	20	0.472	9.2	5024.6	1046.8	1256.1	1360.8	1078	1305.7	1457.5	2307.7
		1016	22.225	1249	13506.9	363.65	412.18	460.71	3413	12	233	686152.1	4656.4	5587.6	6053.3	4795	5808	6483.3	10265.3
135-1418	O	44	0.812	55.81	251.3	67.82	76.98	86.15	20	0.472	11.8	5528	1047	1256.4	1361.1	1078.1	1305.9	1457.8	2308.1
		1117.6	20.638	1417.6	13509.4	331.13	375.87	420.61	3413	12	300	754902.7	4657.2	5588.6	6054.3	4795.8	5809	6484.5	10267.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
135-1319	O	48	0.625	51.94	251.3	60.06	67.89	75.71	20	0.472	3.9	6030.7	1047	1256.4	1361.1	1078.2	1305.9	1457.8	2308.2
		1219.2	15.875	1319.2	13509.6	293.22	331.44	369.67	3413	12	100	823544.6	4657.3	5588.7	6054.4	4795.9	5809.1	6484.6	10267.3
135-1080	O	40	0.75	42.52	251.4	72.69	82.12	91.55	20	0.472	2.5	5027.9	1047.5	1257	1361.7	1078.7	1306.6	1458.5	2309.3
		1016	19.05	1080	13515.9	354.92	400.95	446.98	3413	12	64	686609.3	4659.5	5591.3	6057.3	4798.2	5811.9	6487.6	10272.1
135-1570	O	50	0.688	61.81	251.5	59.27	67.29	75.32	20	0.472	11.8	6286.4	1047.7	1257.3	1362.1	1078.9	1306.9	1458.8	2309.8
		1270	17.462	1570	13519.1	289.36	328.55	367.75	3413	12	300	858465	4660.6	5592.7	6058.7	4799.3	5813.2	6489.2	10274.5
136-1672	O	54	0.625	65.81	252.1	54.82	62.25	69.68	20	0.472	11.8	6806.1	1050.3	1260.4	1365.4	1081.6	1310.1	1462.4	2315.5
		1371.6	15.875	1671.6	13552.4	267.64	303.93	340.23	3413	12	300	929426.9	4672	5606.4	6073.7	4811.1	5827.6	6505.2	10299.9
136-1625	O	56	0.562	63.99	252.1	52.13	59.09	66.04	20	0.472	8	7058.2	1050.3	1260.4	1365.4	1081.6	1310.1	1462.4	2315.5
		1422.4	14.288	1625.4	13552.5	254.52	288.48	322.45	3413	12	203	963855.1	4672.1	5606.5	6073.7	4811.1	5827.6	6505.2	10299.9
136-1265	O	38	1	49.81	252.4	79.93	90.69	101.44	20	0.472	11.8	4795.5	1051.7	1262	1367.2	1083	1311.8	1464.3	2318.5
		965.2	25.4	1265.2	13569.7	390.24	442.77	495.3	3413	12	300	654874.3	4678	5613.6	6081.4	4817.2	5835	6513.5	10313
137-1367	O	42	0.875	53.81	253.9	72.05	81.77	91.48	20	0.472	11.8	5332	1057.9	1269.5	1375.3	1089.4	1319.6	1473	2332.3
		1066.8	22.225	1366.8	13650.8	351.77	399.21	446.66	3413	12	300	728135.1	4706	5647.1	6117.7	4846	5869.9	6552.4	10374.6
137-1316	O	40	0.938	51.81	254.3	76.09	86.34	96.59	20	0.472	11.8	5085.3	1059.4	1271.3	1377.3	1091	1321.5	1475.1	2335.6
		1016	23.812	1316	13670.3	371.51	421.55	471.59	3413	12	300	694449.1	4712.7	5655.2	6126.4	4852.9	5878.2	6561.7	10389.4
137-877	O	32	1	34.52	254.4	94.19	106.38	118.57	20	0.472	2.5	4071.1	1060.2	1272.2	1378.2	1091.7	1322.4	1476.2	2337.2
		812.8	25.4	876.8	13679.7	459.86	519.39	578.92	3413	12	64	555944.3	4715.9	5659.1	6130.7	4856.3	5882.3	6566.3	10396.6
137-1298	O	44	0.75	51.09	254.5	67.36	76.23	85.11	20	0.472	7.1	5598.7	1060.4	1272.4	1378.5	1091.9	1322.6	1476.4	2337.6
		1117.6	19.05	1297.6	13681.9	328.87	372.21	415.54	3413	12	180	764546.9	4716.7	5660	6131.7	4857.1	5883.2	6567.3	10398.3
137-1385	O	52	0.562	54.52	254.5	55.75	62.98	70.21	20	0.472	2.5	6617.6	1060.5	1272.6	1378.7	1092.1	1322.8	1476.6	2338
		1320.8	14.288	1384.8	13684.1	272.17	307.49	342.81	3413	12	64	903697.3	4717.4	5660.9	6132.6	4857.9	5884.2	6568.4	10399.9
137-1270	O	42	0.812	49.99	254.9	71.41	80.9	90.39	20	0.472	8	5353.4	1062.2	1274.6	1380.8	1093.8	1324.9	1478.9	2341.7
		1066.8	20.638	1269.8	13705.5	348.66	395	441.33	3413	12	203	731051.3	4724.8	5669.8	6142.2	4865.5	5893.4	6578.6	10416.2
137-1117	O	36	1	43.99	255.4	84.73	95.96	107.2	20	0.472	8	4596.5	1064	1276.8	1383.2	1095.7	1327.2	1481.5	2345.7
		914.4	25.4	1117.4	13729	413.7	468.54	523.38	3413	12	203	627689.1	4732.9	5679.5	6152.8	4873.8	5903.5	6589.9	10434
137-1117	O	36	1	43.99	255.4	84.73	95.96	107.2	20	0.472	8	4596.5	1064	1276.8	1383.2	1095.7	1327.2	1481.5	2345.7
		914.4	25.4	1117.4	13729	413.7	468.54	523.38	3413	12	203	627689.3	4732.9	5679.5	6152.8	4873.8	5903.5	6589.9	10434

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
137-1422	O	48	0.688	55.99	255.4	62.04	70.3	78.56	20	0.472	8	6129.2	1064.1	1276.9	1383.3	1095.8	1327.3	1481.6	2345.9
		1219.2	17.462	1422.2	13730.3	302.91	343.23	383.55	3413	12	203	836999	4733.4	5680	6153.4	4874.3	5904	6590.5	10435
137-1602	O	56	0.562	63.09	255.7	52.51	59.44	66.37	20	0.472	7.1	7159.5	1065.4	1278.5	1385	1097.1	1328.9	1483.4	2348.7
		1422.4	14.288	1602.4	13747	256.36	290.2	324.05	3413	12	180	977689.7	4739.1	5686.9	6160.9	4880.2	5911.2	6598.6	10447.8
138-1029	O	38	0.812	40.52	255.9	78.25	88.39	98.53	20	0.472	2.5	4861.8	1066.2	1279.4	1386	1097.9	1329.9	1484.5	2350.5
		965.2	20.638	1029.2	13757.2	382.06	431.56	481.06	3413	12	64	663921.5	4742.6	5691.1	6165.4	4883.8	5915.6	6603.4	10455.5
138-1524	O	52	0.625	59.99	256.1	57.19	64.81	72.43	20	0.472	8	6658	1067	1280.4	1387.1	1098.8	1330.9	1485.6	2352.3
		1320.8	15.875	1523.8	13767.6	279.22	316.42	353.61	3413	12	203	909213.8	4746.2	5695.5	6170.1	4887.5	5920.1	6608.5	10463.4
138-1537	O	50	0.688	60.51	256.9	60.28	68.39	76.51	20	0.472	10.5	6421.4	1070.2	1284.3	1391.3	1102.1	1334.9	1490.1	2359.4
		1270	17.462	1537	13809.4	294.32	333.93	373.55	3413	12	267	876896.6	4760.6	5712.7	6188.8	4902.3	5938	6628.5	10495.1
138-1639	O	54	0.625	64.51	257.2	55.68	63.18	70.68	20	0.472	10.5	6943.1	1071.5	1285.8	1392.9	1103.4	1336.5	1491.9	2362.1
		1371.6	15.875	1638.6	13825.4	271.85	308.48	345.11	3413	12	267	948144.8	4766.1	5719.4	6196	4908	5944.9	6636.2	10507.3
138-1167	O	42	0.75	45.94	257.2	70.87	80.09	89.31	20	0.472	3.9	5402	1071.8	1286.2	1393.4	1103.7	1336.9	1492.4	2362.9
		1066.8	19.05	1166.8	13830	346.01	391.03	436.06	3413	12	100	737692	4767.7	5721.3	6198	4909.6	5946.9	6638.4	10510.8
138-1385	O	44	0.812	54.51	257.3	69.15	78.44	87.72	20	0.472	10.5	5659.8	1071.9	1286.3	1393.5	1103.8	1337	1492.5	2363.1
		1117.6	20.638	1384.6	13831.3	337.63	382.97	428.31	3413	12	267	772894.7	4768.2	5721.8	6198.6	4910.1	5947.5	6639	10511.8
138-1182	O	44	0.688	46.52	257.3	67.19	75.9	84.61	20	0.472	2.5	5660.1	1072	1286.4	1393.6	1103.9	1337.1	1492.6	2363.3
		1117.6	17.462	1181.6	13832.2	328.07	370.59	413.12	3413	12	64	772940.9	4768.5	5722.2	6199	4910.4	5947.8	6639.4	10512.4
138-928	O	34	0.938	36.52	257.4	89.02	100.54	112.07	20	0.472	2.5	4375.6	1072.5	1287	1394.2	1104.4	1337.7	1493.3	2364.3
		863.6	23.812	927.6	13838.2	434.62	490.89	547.15	3413	12	64	597532.3	4770.5	5724.6	6201.7	4912.6	5950.4	6642.3	10517
138-1219	O	40	0.875	47.99	257.4	76.03	86.12	96.22	20	0.472	8	5148.2	1072.6	1287.1	1394.3	1104.5	1337.8	1493.4	2364.5
		1016	22.225	1219	13839.3	371.23	420.5	469.77	3413	12	203	703038.6	4770.9	5725.1	6202.2	4913	5950.9	6642.9	10517.9
138-1168	O	38	0.938	45.99	257.5	80.48	91.15	101.83	20	0.472	8	4893.4	1073.1	1287.7	1395	1105.1	1338.5	1494.2	2365.8
		965.2	23.812	1168.2	13846.6	392.94	445.05	497.16	3413	12	203	668237.5	4773.5	5728.1	6205.5	4915.5	5954	6646.4	10523.4
139-978	O	36	0.875	38.52	257.9	83.7	94.54	105.37	20	0.472	2.5	4641.8	1074.5	1289.4	1396.8	1106.5	1340.2	1496.1	2368.8
		914.4	22.225	978.4	13864.3	408.65	461.57	514.49	3413	12	64	633876.7	4779.6	5735.5	6213.4	4921.8	5961.7	6654.9	10536.9
139-1283	O	48	0.625	50.52	258.3	61.53	69.51	77.49	20	0.472	2.5	6199.9	1076.4	1291.6	1399.3	1108.4	1342.6	1498.7	2372.9
		1219.2	15.875	1283.2	13888.6	300.42	339.38	378.33	3413	12	64	846649	4787.9	5745.5	6224.3	4930.5	5972.1	6666.5	10555.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
139-1824	O	60	0.562	71.81	258.4	50.34	57.17	63.99	20	0.472	11.8	7751.6	1076.6	1291.9	1399.6	1108.7	1342.9	1499	2373.5
		1524	14.288	1824	13891.8	245.8	279.12	312.45	3413	12	300	1058552.6	4789	5746.8	6225.7	4931.6	5973.5	6668	10557.7
139-1472	O	54	0.562	57.94	258.6	54.63	61.75	68.87	20	0.472	3.9	6982.2	1077.5	1293	1400.8	1109.6	1344	1500.3	2375.4
		1371.6	14.288	1471.6	13903.3	266.74	301.49	336.24	3413	12	100	953486	4793	5751.6	6230.9	4935.7	5978.4	6673.6	10566.5
139-1624	O	60	0.5	63.94	258.8	49.01	55.4	61.79	20	0.472	3.9	7763.2	1078.2	1293.9	1401.7	1110.3	1344.9	1501.3	2377
		1524	12.7	1624	13912.5	239.29	270.48	301.66	3413	12	100	1060135.5	4796.2	5755.4	6235	4939	5982.4	6678	10573.5
139-1525	O	50	0.688	60.02	259	60.62	68.75	76.87	20	0.472	10	6474	1079	1294.8	1402.7	1111.1	1345.9	1502.4	2378.7
		1270	17.462	1524.5	13922.6	295.96	335.65	375.33	3413	12	254.5	884086.6	4799.7	5759.6	6239.5	4942.5	5986.7	6682.9	10581.2
139-1626	O	54	0.625	64.02	259.1	55.96	63.47	70.98	20	0.472	10	6996.5	1079.7	1295.6	1403.6	1111.8	1346.7	1503.3	2380.3
		1371.6	15.875	1626.1	13931.7	273.22	309.89	346.57	3413	12	254.5	955433.2	4802.8	5763.3	6243.6	4945.7	5990.6	6687.2	10588.1
139-1232	O	38	1	48.51	259.2	81.75	92.69	103.63	20	0.472	10.5	4924	1079.8	1295.8	1403.8	1112	1346.9	1503.5	2380.5
		965.2	25.4	1232.2	13933.1	399.12	452.53	505.95	3413	12	267	672412.8	4803.3	5763.9	6244.3	4946.3	5991.2	6687.9	10589.2
140-1399	O	48	0.688	55.09	259.6	62.63	70.89	79.14	20	0.472	7.1	6230	1081.6	1297.9	1406.1	1113.8	1349.1	1506	2384.4
		1219.2	17.462	1399.2	13956	305.81	346.1	386.39	3413	12	180	850757.6	4811.2	5773.4	6254.5	4954.4	6001.1	6698.9	10606.6
140-1372	O	44	0.812	54.02	259.6	69.61	78.92	88.23	20	0.472	10	5711.4	1081.7	1298	1406.2	1113.9	1349.2	1506.1	2384.7
		1117.6	20.638	1372.1	13957.3	339.85	385.32	430.79	3413	12	254.5	779935.9	4811.6	5773.9	6255.1	4954.9	6001.7	6699.5	10607.6
140-1247	O	42	0.812	49.09	259.6	72.25	81.76	91.26	20	0.472	7.1	5452.1	1081.8	1298.1	1406.3	1114	1349.3	1506.2	2384.8
		1066.8	20.638	1246.8	13958.3	352.76	399.17	445.59	3413	12	180	744537.2	4812	5774.4	6255.6	4955.2	6002.1	6700	10608.3
140-1519	O	48	0.75	59.81	259.8	63.88	72.51	81.13	20	0.472	11.8	6235	1082.5	1299	1407.2	1114.7	1350.2	1507.2	2386.4
		1219.2	19.05	1519.2	13967.2	311.9	354.01	396.12	3413	12	300	851441.5	4815	5778	6259.5	4958.4	6005.9	6704.3	10615.1
140-1501	O	52	0.625	59.09	260	57.67	65.27	72.87	20	0.472	7.1	6760.1	1083.3	1300	1408.3	1115.6	1351.3	1508.4	2388.3
		1320.8	15.875	1500.8	13978.6	281.56	318.68	355.8	3413	12	180	923147.7	4819	5782.7	6264.6	4962.4	6010.8	6709.7	10623.7
140-1334	O	42	0.875	52.51	260.2	73.53	83.39	93.25	20	0.472	10.5	5463.9	1084.1	1300.9	1409.4	1116.4	1352.2	1509.5	2390
		1066.8	22.225	1333.8	13988.6	359.02	407.16	455.29	3413	12	267	746150.1	4822.4	5786.9	6269.1	4965.9	6015.1	6714.5	10631.3
140-1094	O	36	1	43.09	260.7	85.97	97.26	108.54	20	0.472	7.1	4693.1	1086.4	1303.6	1412.3	1118.7	1355	1512.6	2395
		914.4	25.4	1094.4	14017.5	419.74	474.85	529.95	3413	12	180	640880.7	4832.4	5798.8	6282.1	4976.2	6027.5	6728.4	10653.3
140-1094	O	36	1	43.09	260.7	85.97	97.26	108.54	20	0.472	7.1	4693.1	1086.4	1303.6	1412.3	1118.7	1355	1512.6	2395
		914.4	25.4	1094.4	14017.5	419.74	474.85	529.95	3413	12	180	640880.8	4832.4	5798.8	6282.1	4976.2	6027.5	6728.4	10653.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
140-1283	O	40	0.938	50.51	260.8	77.74	88.15	98.56	20	0.472	10.5	5216.1	1086.7	1304	1412.7	1119	1355.5	1513.1	2395.7
		1016	23.812	1283	14021.9	379.56	430.39	481.21	3413	12	267	712311	4833.9	5800.6	6284	4977.8	6029.4	6730.5	10656.6
141-1220	O	38	1	48.02	261.8	82.39	93.37	104.36	20	0.472	10	4974.4	1090.9	1309.1	1418.2	1123.4	1360.7	1518.9	2404.9
		965.2	25.4	1219.7	14075.9	402.25	455.89	509.53	3413	12	254.5	679303.9	4852.5	5823	6308.3	4997	6052.6	6756.4	10697.7
141-1116	O	40	0.812	43.94	262.3	76.2	86.11	96.01	20	0.472	3.9	5246.4	1093	1311.6	1420.9	1125.5	1363.3	1521.9	2409.6
		1016	20.638	1116	14103.3	372.05	420.41	468.77	3413	12	100	716445.3	4861.9	5834.3	6320.5	5006.7	6064.4	6769.6	10718.5
141-1196	O	40	0.875	47.09	262.4	77	87.12	97.24	20	0.472	7.1	5247.3	1093.2	1311.8	1421.1	1125.7	1363.5	1522.1	2410
		1016	22.225	1196	14105.5	375.93	425.34	474.75	3413	12	180	716558.5	4862.7	5835.2	6321.5	5007.4	6065.4	6770.6	10720.2
141-1605	O	54	0.625	63.17	262.6	56.55	64.11	71.67	20	0.472	9.2	7090.2	1094.2	1313	1422.4	1126.7	1364.8	1523.5	2412.2
		1371.6	15.875	1604.6	14118.3	276.12	313.03	349.94	3413	12	233	968235.1	4867.1	5840.5	6327.3	5012	6070.9	6776.8	10729.9
141-1321	O	42	0.875	52.02	262.6	74.05	83.94	93.83	20	0.472	10	5515.6	1094.4	1313.2	1422.7	1126.9	1365	1523.8	2412.6
		1066.8	22.225	1321.3	14120.9	361.53	409.83	458.12	3413	12	254.5	753209	4868	5841.6	6328.4	5012.9	6072	6778	10731.9
141-1503	O	50	0.688	59.17	262.7	61.32	69.51	77.69	20	0.472	9.2	6566.6	1094.4	1313.3	1422.8	1127	1365.1	1523.9	2412.8
		1270	17.462	1503	14121.8	299.38	339.36	379.34	3413	12	233	896733.2	4868.3	5842	6328.8	5013.2	6072.4	6778.5	10732.6
141-1145	O	38	0.938	45.09	262.7	81.58	92.29	103.01	20	0.472	7.1	4991.7	1094.7	1313.6	1423.1	1127.3	1365.4	1524.2	2413.3
		965.2	23.812	1145.2	14124.7	398.3	450.61	502.92	3413	12	180	681658.2	4869.3	5843.2	6330.1	5014.3	6073.6	6779.9	10734.8
141-964	O	34	1	37.94	262.8	91.39	103.26	115.12	20	0.472	3.9	4468.1	1095.1	1314.1	1423.6	1127.7	1366	1524.8	2414.3
		863.6	25.4	963.6	14130.4	446.22	504.14	562.07	3413	12	100	610152.6	4871.3	5845.6	6332.7	5016.3	6076.1	6782.6	10739.1
141-1370	O	50	0.625	53.94	263	60.21	68.04	75.88	20	0.472	3.9	6573.9	1095.7	1314.8	1424.4	1128.3	1366.6	1525.6	2415.5
		1270	15.875	1370	14137.5	293.96	332.22	370.48	3413	12	100	897729.9	4873.7	5848.5	6335.8	5018.8	6079.1	6786	10744.5
141-1791	O	60	0.562	70.51	263.1	51.05	57.93	64.8	20	0.472	10.5	7894.4	1096.5	1315.7	1425.4	1129.1	1367.6	1526.7	2417.2
		1524	14.288	1791	14147.7	249.25	282.83	316.41	3413	12	267	1078057	4877.3	5852.7	6340.4	5022.4	6083.5	6790.9	10752.3
142-1271	O	40	0.938	50.02	263.4	78.32	88.77	99.22	20	0.472	10	5267.5	1097.4	1316.9	1426.6	1130.1	1368.8	1528	2419.3
		1016	23.812	1270.5	14159.8	382.37	433.39	484.41	3413	12	254.5	719319.2	4881.4	5857.7	6345.9	5026.7	6088.7	6796.7	10761.5
142-1722	O	56	0.625	67.81	263.4	55.09	62.54	69.99	20	0.472	11.8	7376	1097.6	1317.1	1426.9	1130.3	1369.1	1528.3	2419.8
		1422.4	15.875	1722.4	14162.7	268.98	305.36	341.74	3413	12	300	1007251.5	4882.4	5858.9	6347.1	5027.8	6090	6798.1	10763.7
142-1351	O	44	0.812	53.17	263.7	70.53	79.93	89.33	20	0.472	9.2	5802.3	1098.9	1318.7	1428.6	1131.6	1370.7	1530.1	2422.6
		1117.6	20.638	1350.6	14179.5	344.35	390.24	436.13	3413	12	233	792351.5	4888.2	5865.9	6354.7	5033.7	6097.2	6806.2	10776.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
142-1621	O	52	0.688	63.81	263.9	59.62	67.67	75.72	20	0.472	11.8	6860.7	1099.5	1319.4	1429.3	1132.2	1371.4	1530.9	2423.8
		1320.8	17.462	1620.8	14186.6	291.09	330.4	369.72	3413	12	300	936883	4890.7	5868.8	6357.9	5036.2	6100.2	6809.6	10781.8
142-1588	O	60	0.5	62.52	264.6	49.95	56.43	62.9	20	0.472	2.5	7939.2	1102.7	1323.2	1433.5	1135.5	1375.4	1535.3	2430.9
		1524	12.7	1588	14227.9	243.89	275.51	307.12	3413	12	64	1084168.8	4904.9	5885.9	6376.4	5050.9	6118	6829.4	10813.2
142-1065	O	38	0.875	41.94	264.9	81.41	91.99	102.56	20	0.472	3.9	5033.8	1103.9	1324.7	1435.1	1136.8	1376.9	1537	2433.6
		965.2	22.225	1065.2	14243.8	397.5	449.13	500.76	3413	12	100	687404.2	4910.4	5892.4	6383.5	5056.5	6124.8	6837	10825.3
142-1779	O	60	0.562	70.02	265	51.27	58.15	65.04	20	0.472	10	7949.9	1104.2	1325	1435.4	1137	1377.2	1537.4	2434.2
		1524	14.288	1778.5	14247.2	250.34	283.94	317.53	3413	12	254.5	1085634	4911.5	5893.8	6385	5057.7	6126.3	6838.6	10827.8
143-1436	O	54	0.562	56.52	265.1	55.82	63.05	70.28	20	0.472	2.5	7157.3	1104.5	1325.4	1435.9	1137.4	1377.7	1537.9	2435
		1371.6	14.288	1435.6	14251.9	272.52	307.83	343.15	3413	12	64	977396.2	4913.2	5895.8	6387.1	5059.4	6128.3	6840.9	10831.5
143-1014	O	36	0.938	39.94	265.1	86.48	97.71	108.94	20	0.472	3.9	4771.7	1104.6	1325.5	1435.9	1137.4	1377.8	1538	2435.1
		914.4	23.812	1014.4	14252.4	422.25	477.08	531.9	3413	12	100	651621.6	4913.4	5896	6387.4	5059.6	6128.6	6841.2	10831.9
143-1131	O	42	0.75	44.52	265.4	72.89	82.32	91.76	20	0.472	2.5	5574	1105.9	1327.1	1437.7	1138.9	1379.5	1539.9	2438.1
		1066.8	19.05	1130.8	14270.3	355.86	401.93	448.01	3413	12	64	761177	4919.5	5903.4	6395.4	5066	6136.2	6849.7	10845.4
143-1486	O	48	0.75	58.51	265.6	65.03	73.76	82.49	20	0.472	10.5	6373.4	1106.5	1327.8	1438.4	1139.4	1380.2	1540.6	2439.4
		1219.2	19.05	1486.2	14277.3	317.53	360.14	402.75	3413	12	267	870347.2	4921.9	5906.3	6398.5	5068.5	6139.3	6853.1	10850.8
143-1198	O	38	1	47.17	266.5	83.66	94.77	105.88	20	0.472	9.2	5063.7	1110.5	1332.6	1443.6	1143.5	1385.1	1546.2	2448.1
		965.2	25.4	1198.2	14328.5	408.44	462.71	516.97	3413	12	233	691493.1	4939.6	5927.5	6421.4	5086.6	6161.3	6877.7	10889.7
144-1300	O	42	0.875	51.17	267	75.08	85.07	95.06	20	0.472	9.2	5606.9	1112.5	1335	1446.2	1145.6	1387.6	1549	2452.5
		1066.8	22.225	1299.8	14354.5	366.57	415.35	464.13	3413	12	233	765667.8	4948.5	5938.2	6433.1	5095.8	6172.4	6890.1	10909.4
144-1575	O	54	0.625	61.99	267.6	57.41	65.04	72.68	20	0.472	8	7225.3	1115	1338	1449.5	1148.2	1390.8	1552.5	2458.1
		1371.6	15.875	1574.6	14387.3	280.32	317.58	354.83	3413	12	203	986682.3	4959.9	5951.8	6447.8	5107.5	6186.5	6905.9	10934.4
144-1474	O	48	0.75	58.02	267.8	65.42	74.17	82.92	20	0.472	10	6427.5	1115.9	1339.1	1450.6	1149.1	1391.9	1553.7	2460
		1219.2	19.05	1473.7	14398.5	319.42	362.13	404.84	3413	12	254.5	877729.5	4963.7	5956.4	6452.8	5111.4	6191.3	6911.3	10942.8
144-1249	O	40	0.938	49.17	267.9	79.46	90.03	100.59	20	0.472	9.2	5358.1	1116.3	1339.5	1451.2	1149.5	1392.4	1554.3	2460.9
		1016	23.812	1249	14403.6	387.97	439.54	491.12	3413	12	233	731701.4	4965.5	5958.5	6455.1	5113.3	6193.5	6913.7	10946.7
144-1473	O	50	0.688	57.99	268	62.33	70.61	78.89	20	0.472	8	6700.4	1116.7	1340.1	1451.7	1150	1392.9	1554.9	2461.9
		1270	17.462	1473	14409.4	304.34	344.76	385.17	3413	12	203	914996.6	4967.5	5961	6457.7	5115.3	6196	6916.5	10951.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
144-1757	O	60	0.562	69.17	268.2	51.76	58.68	65.59	20	0.472	9.2	8047.2	1117.7	1341.2	1453	1150.9	1394.1	1556.2	2464
		1524	14.288	1757	14421.5	252.71	286.48	320.26	3413	12	233	1098918.6	4971.6	5966	6463.1	5119.6	6201.2	6922.3	10960.3
144-1689	O	56	0.625	66.51	268.6	55.93	63.45	70.97	20	0.472	10.5	7520	1119.1	1342.9	1454.8	1152.4	1395.8	1558.1	2467
		1422.4	15.875	1689.4	14439.4	273.09	309.8	346.51	3413	12	267	1026926.7	4977.8	5973.3	6471.1	5126	6208.9	6930.9	10973.9
145-1522	O	56	0.562	59.94	269.1	54.74	61.86	68.98	20	0.472	3.9	7535.7	1121.4	1345.7	1457.8	1154.8	1398.7	1561.4	2472.2
		1422.4	14.288	1522.4	14469.4	267.25	302.01	336.78	3413	12	100	1029065.9	4988.2	5985.8	6484.6	5136.6	6221.9	6945.3	10996.8
145-1588	O	52	0.688	62.51	269.4	60.61	68.75	76.88	20	0.472	10.5	7003.2	1122.3	1346.8	1459	1155.7	1399.9	1562.7	2474.2
		1320.8	17.462	1587.8	14481.4	295.92	335.65	375.37	3413	12	267	956354.7	4992.3	5990.8	6490	5140.9	6227	6951.1	11005.9
145-1418	O	44	0.875	55.81	269.4	72.68	82.46	92.23	20	0.472	11.8	5927.8	1122.7	1347.2	1459.5	1156.1	1400.4	1563.2	2475.1
		1117.6	22.225	1417.6	14486.3	354.88	402.58	450.29	3413	12	300	809494.9	4994	5992.8	6492.2	5142.6	6229.1	6953.4	11009.6
145-1321	O	44	0.812	51.99	269.7	71.87	81.4	90.92	20	0.472	8	5934.1	1123.9	1348.7	1461	1157.3	1401.8	1564.8	2477.7
		1117.6	20.638	1320.6	14501.6	350.91	397.42	443.93	3413	12	203	810351.4	4999.3	5999.1	6499	5148.1	6235.7	6960.8	11021.2
145-1316	O	40	1	51.81	269.9	80.8	91.64	102.48	20	0.472	11.8	5398.8	1124.8	1349.7	1462.2	1158.2	1402.9	1566.1	2479.6
		1016	25.4	1316	14512.9	394.52	447.44	500.36	3413	12	300	737255.3	5003.1	6003.8	6504.1	5152.1	6240.5	6966.2	11029.8
145-1316	O	40	1	51.81	269.9	80.8	91.64	102.48	20	0.472	11.8	5398.8	1124.8	1349.7	1462.2	1158.2	1402.9	1566.1	2479.6
		1016	25.4	1316	14512.9	394.52	447.44	500.36	3413	12	300	737255.7	5003.2	6003.8	6504.1	5152.1	6240.5	6966.2	11029.8
145-1334	O	50	0.625	52.52	270.1	61.63	69.61	77.59	20	0.472	2.5	6751.3	1125.2	1350.3	1462.8	1158.7	1403.5	1566.7	2480.6
		1270	15.875	1334	14519	300.91	339.87	378.83	3413	12	64	921956.5	5005.3	6006.3	6506.8	5154.2	6243.2	6969.1	11034.4
145-1677	O	56	0.625	66.02	270.6	56.21	63.73	71.26	20	0.472	10	7576.1	1127.4	1352.9	1465.6	1161	1406.2	1569.7	2485.4
		1422.4	15.875	1676.9	14547	274.43	311.18	347.93	3413	12	254.5	1034581.7	5014.9	6017.9	6519.4	5164.2	6255.2	6982.6	11055.7
146-1367	O	42	0.938	53.81	270.8	76.84	87.15	97.47	20	0.472	11.8	5687.3	1128.4	1354.1	1467	1162	1407.5	1571.2	2487.7
		1066.8	23.812	1366.8	14560.3	375.16	425.53	475.89	3413	12	300	776646.2	5019.5	6023.4	6525.3	5168.9	6260.9	6988.9	11065.8
146-1080	O	40	0.812	42.52	271.1	78.49	88.65	98.8	20	0.472	2.5	5421.3	1129.4	1355.3	1468.3	1163.1	1408.8	1572.6	2489.9
		1016	20.638	1080	14573.4	383.24	432.8	482.37	3413	12	64	740326.9	5024	6028.8	6531.2	5173.5	6266.5	6995.2	11075.8
146-1218	O	44	0.75	47.94	271.2	71.12	80.36	89.6	20	0.472	3.9	5966.5	1130	1356	1469	1163.7	1409.5	1573.4	2491.2
		1117.6	19.05	1217.6	14580.9	347.25	392.36	437.47	3413	12	100	814779.9	5026.6	6031.9	6534.6	5176.2	6269.8	6998.8	11081.5
146-1575	O	52	0.688	62.02	271.5	60.94	69.09	77.24	20	0.472	10	7058.8	1131.2	1357.5	1470.6	1164.9	1411	1575.1	2493.9
		1320.8	17.462	1575.3	14596.4	297.53	337.32	377.11	3413	12	254.5	963943.4	5031.9	6038.3	6541.5	5181.7	6276.4	7006.3	11093.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
146-1552	O	54	0.625	61.09	271.6	57.88	65.5	73.11	20	0.472	7.1	7332.4	1131.5	1357.9	1471	1165.2	1411.4	1575.5	2494.6
		1371.6	15.875	1551.6	14600.6	282.6	319.79	356.97	3413	12	180	1001308.3	5033.4	6040	6543.4	5183.2	6278.3	7008.3	11096.4
146-1452	O	48	0.75	57.17	271.8	66.22	75.04	83.86	20	0.472	9.2	6522.6	1132.4	1358.9	1472.1	1166.1	1412.5	1576.7	2496.5
		1219.2	19.05	1452.2	14611.6	323.31	366.37	409.43	3413	12	233	890724.4	5037.2	6044.6	6548.3	5187.1	6283	7013.6	11104.8
146-1450	O	50	0.688	57.09	272.3	62.91	71.18	79.46	20	0.472	7.1	6806.7	1134.4	1361.3	1474.8	1168.2	1415	1579.6	2501
		1270	17.462	1450	14638	307.17	347.55	387.94	3413	12	180	929510.3	5046.3	6055.5	6560.1	5196.5	6294.3	7026.2	11124.8
147-1727	O	60	0.562	67.99	272.9	52.46	59.43	66.4	20	0.472	8	8187	1137.1	1364.5	1478.2	1170.9	1418.3	1583.2	2506.8
		1524	14.288	1727	14672	256.13	290.17	324.21	3413	12	203	1118008.1	5058	6069.6	6575.4	5208.6	6309	7042.6	11150.7
147-928	O	34	1	36.52	273	94.65	106.88	119.11	20	0.472	2.5	4641.5	1137.6	1365.1	1478.9	1171.5	1419	1584	2508
		863.6	25.4	927.6	14678.8	462.12	521.82	581.52	3413	12	64	633832.5	5060.4	6072.4	6578.5	5211	6311.9	7045.8	11155.9
147-1570	O	50	0.75	61.81	273.3	64.31	72.96	81.62	20	0.472	11.8	6832.1	1138.7	1366.4	1480.3	1172.6	1420.3	1585.5	2510.3
		1270	19.05	1570	14692.7	313.97	356.24	398.51	3413	12	300	932987.3	5065.1	6078.2	6584.7	5215.9	6317.9	7052.5	11166.5
147-1270	O	42	0.875	49.99	273.3	76.58	86.72	96.86	20	0.472	8	5739.3	1138.8	1366.5	1480.4	1172.7	1420.4	1585.6	2510.5
		1066.8	22.225	1269.8	14693.6	373.92	423.41	472.9	3413	12	203	783757.3	5065.4	6078.5	6585.1	5216.2	6318.3	7052.9	11167.1
147-1168	O	38	1	45.99	273.4	85.51	96.81	108.11	20	0.472	8	5193.7	1139	1366.8	1480.7	1172.9	1420.7	1585.9	2511
		965.2	25.4	1168.2	14696.5	417.5	472.68	527.86	3413	12	203	709251	5066.4	6079.7	6586.3	5217.2	6319.5	7054.3	11169.3
147-1655	O	56	0.625	65.17	274.1	56.79	64.36	71.93	20	0.472	9.2	7674.5	1142	1370.4	1484.6	1176	1424.5	1590.1	2517.7
		1422.4	15.875	1655.4	14735.9	277.26	314.23	351.21	3413	12	233	1048018.6	5080	6096	6604	5231.3	6336.4	7073.2	11199.3
147-1029	O	38	0.875	40.52	274.2	84	94.86	105.71	20	0.472	2.5	5209.8	1142.5	1371	1485.3	1176.5	1425.1	1590.8	2518.7
		965.2	22.225	1029.2	14742	410.12	463.13	516.14	3413	12	64	711448.7	5082.1	6098.5	6606.8	5233.4	6339.1	7076.2	11203.9
148-1219	O	40	0.938	47.99	274.5	81.14	91.87	102.6	20	0.472	8	5490	1143.8	1372.5	1486.9	1177.8	1426.6	1592.5	2521.5
		1016	23.812	1219	14758	396.15	448.53	500.92	3413	12	203	749708.8	5087.7	6105.2	6614	5239.1	6346	7083.9	11216.1
148-1298	O	44	0.812	51.09	274.5	72.69	82.23	91.77	20	0.472	7.1	6039.3	1143.8	1372.6	1486.9	1177.8	1426.7	1592.6	2521.6
		1117.6	20.638	1297.6	14758.7	354.89	401.48	448.07	3413	12	180	824714.9	5087.9	6105.4	6614.2	5239.3	6346.2	7084.2	11216.6
148-1421	O	52	0.625	55.94	274.6	60.35	68.19	76.03	20	0.472	3.9	7140.7	1144.3	1373.2	1487.6	1178.4	1427.4	1593.3	2522.8
		1320.8	15.875	1420.8	14765.7	294.65	332.94	371.23	3413	12	100	975126.7	5090.3	6108.3	6617.4	5241.8	6349.3	7087.5	11221.9
148-978	O	36	0.938	38.52	274.9	89.39	100.94	112.49	20	0.472	2.5	4947.3	1145.2	1374.2	1488.8	1179.3	1428.4	1594.5	2524.7
		914.4	23.812	978.4	14776.9	436.45	492.84	549.23	3413	12	64	675597.9	5094.1	6113	6622.4	5245.8	6354	7092.9	11230.4

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BALL & SOCKET | MULTI-USE

Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
148-1554	O	52	0.688	61.17	275.2	61.62	69.83	78.04	20	0.472	9.2	7156.5	1146.9	1376.2	1490.9	1181	1430.5	1596.9	2528.4
		1320.8	17.462	1553.8	14798.3	300.86	340.94	381.02	3413	12	233	977281.5	5101.5	6121.8	6632	5253.4	6363.3	7103.2	11246.7
148-1319	O	48	0.688	51.94	275.3	65.82	74.37	82.92	20	0.472	3.9	6607.8	1147.2	1376.6	1491.3	1181.3	1430.9	1597.3	2529
		1219.2	17.462	1319.2	14802.3	321.38	363.12	404.86	3413	12	100	902349.9	5102.9	6123.5	6633.8	5254.8	6365	7105.1	11249.8
148-1486	O	56	0.562	58.52	275.7	55.88	63.11	70.35	20	0.472	2.5	7718.2	1148.5	1378.2	1493.1	1182.7	1432.6	1599.2	2532
		1422.4	14.288	1486.4	14819.9	272.84	308.15	343.46	3413	12	64	1053989.5	5109	6130.8	6641.7	5261.1	6372.5	7113.5	11263.1
148-1385	O	44	0.875	54.51	275.9	74.13	84.04	93.95	20	0.472	10.5	6069.1	1149.4	1379.3	1494.3	1183.7	1433.7	1600.4	2534
		1117.6	22.225	1384.6	14831.6	361.94	410.32	458.7	3413	12	267	828788.1	5113	6135.6	6646.9	5265.2	6377.6	7119.2	11272
149-1672	O	54	0.688	65.81	276.3	59.95	68.03	76.1	20	0.472	11.8	7460.6	1151.3	1381.6	1496.7	1185.6	1436.1	1603.1	2538.2
		1371.6	17.462	1671.6	14855.9	292.71	332.14	371.57	3413	12	300	1018814.3	5121.4	6145.6	6657.8	5273.8	6388	7130.8	11290.4
149-1704	O	60	0.562	67.09	276.6	52.82	59.77	66.72	20	0.472	7.1	8297.5	1152.4	1382.9	1498.2	1186.7	1437.5	1604.6	2540.6
		1524	14.288	1704	14870.1	257.88	291.81	325.74	3413	12	180	1133098.6	5126.3	6151.5	6664.2	5278.9	6394.1	7137.6	11301.2
149-1283	O	40	1	50.51	276.9	82.57	93.59	104.6	20	0.472	10.5	5537.7	1153.7	1384.4	1499.8	1188	1439	1606.3	2543.4
		1016	25.4	1283	14886.2	403.16	456.94	510.71	3413	12	267	756218.2	5131.8	6158.2	6671.4	5284.6	6401.1	7145.4	11313.5
149-1283	O	40	1	50.51	276.9	82.57	93.59	104.6	20	0.472	10.5	5537.7	1153.7	1384.4	1499.8	1188	1439	1606.3	2543.4
		1016	25.4	1283	14886.2	403.16	456.94	510.71	3413	12	267	756218.6	5131.8	6158.2	6671.4	5284.6	6401.1	7145.4	11313.5
149-1167	O	42	0.812	45.94	277.4	76.52	86.44	96.37	20	0.472	3.9	5826	1155.9	1387.1	1502.7	1190.4	1441.8	1609.5	2548.4
		1066.8	20.638	1166.8	14915.4	373.58	422.05	470.52	3413	12	100	795585.4	5141.9	6170.3	6684.5	5295	6413.6	7159.4	11335.7
149-1422	O	48	0.75	55.99	277.5	67.38	76.3	85.23	20	0.472	8	6660.2	1156.3	1387.5	1503.2	1190.7	1442.3	1610	2549.1
		1219.2	19.05	1422.2	14919.8	328.95	372.53	416.11	3413	12	203	909513.4	5143.4	6172.1	6686.5	5296.5	6415.5	7161.5	11339.1
149-1334	O	42	0.938	52.51	277.5	78.44	88.92	99.39	20	0.472	10.5	5828	1156.3	1387.6	1503.2	1190.8	1442.3	1610	2549.2
		1066.8	23.812	1333.8	14920.5	382.99	434.12	485.25	3413	12	267	795861.4	5143.7	6172.4	6686.8	5296.8	6415.8	7161.9	11339.6
150-1247	O	42	0.875	49.09	278.3	77.52	87.68	97.85	20	0.472	7.1	5845.2	1159.8	1391.7	1507.7	1194.3	1446.6	1614.8	2556.8
		1066.8	22.225	1246.8	14964.7	378.48	428.11	477.74	3413	12	180	798215.4	5158.9	6190.7	6706.6	5312.5	6434.8	7183	11373.1
150-1372	O	44	0.875	54.02	278.4	74.63	84.57	94.51	20	0.472	10	6124.4	1159.9	1391.9	1507.9	1194.4	1446.8	1615	2557.1
		1117.6	22.225	1372.1	14966.7	364.38	412.92	461.45	3413	12	254.5	836338.5	5159.6	6191.5	6707.5	5313.2	6435.7	7184	11374.7
150-1145	O	38	1	45.09	278.8	86.71	98.06	109.42	20	0.472	7.1	5298	1161.9	1394.2	1510.4	1196.4	1449.2	1617.7	2561.4
		965.2	25.4	1145.2	14991.6	423.35	478.79	534.23	3413	12	180	723495.5	5168.2	6201.8	6718.6	5322	6446.4	7196	11393.6

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		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
150-1625	O	56	0.625	63.99	279.1	57.62	65.27	72.91	20	0.472	8	7816.1	1163.1	1395.7	1512	1197.7	1450.8	1619.5	2564.2
		1422.4	15.875	1625.4	15007.9	281.34	318.66	355.98	3413	12	203	1067361.9	5173.8	6208.5	6725.9	5327.8	6453.4	7203.8	11406
150-1537	O	50	0.75	60.51	279.2	65.43	74.19	82.94	20	0.472	10.5	6978.8	1163.1	1395.8	1512.1	1197.8	1450.8	1619.5	2564.2
		1270	19.05	1537	15008.2	319.45	362.21	404.97	3413	12	267	953018.9	5173.9	6208.7	6726	5327.9	6453.5	7203.9	11406.2
150-1182	O	44	0.75	46.52	279.5	73.06	82.51	91.95	20	0.472	2.5	6148.3	1164.4	1397.3	1513.8	1199.1	1452.4	1621.3	2567.1
		1117.6	19.05	1181.6	15025.1	356.72	402.83	448.94	3413	12	64	839603.9	5179.7	6215.7	6733.6	5333.9	6460.8	7212.1	11419.1
150-1271	O	40	1	50.02	279.6	83.2	94.26	105.32	20	0.472	10	5592.2	1165	1398	1514.5	1199.7	1453.2	1622.1	2568.4
		1016	25.4	1270.5	15032.6	406.2	460.2	514.2	3413	12	254.5	763658.4	5182.3	6218.8	6737	5336.6	6464	7215.7	11424.8
150-1271	O	40	1	50.02	279.6	83.2	94.26	105.32	20	0.472	10	5592.2	1165	1398	1514.5	1199.7	1453.2	1622.1	2568.4
		1016	25.4	1270.5	15032.7	406.2	460.2	514.2	3413	12	254.5	763658.8	5182.3	6218.8	6737	5336.6	6464	7215.7	11424.8
150-1196	O	40	0.938	47.09	279.8	82.2	92.97	103.74	20	0.472	7.1	5595.6	1165.7	1398.9	1515.5	1200.4	1454.1	1623.1	2570
		1016	23.812	1196	15041.9	401.34	453.92	506.5	3413	12	180	764126.3	5185.5	6222.6	6741.1	5339.9	6468	7220.1	11431.8
151-1321	O	42	0.938	52.02	280.1	79	89.51	100.03	20	0.472	10	5883.1	1167.3	1400.7	1517.5	1202	1456	1625.3	2573.4
		1066.8	23.812	1321.3	15061.7	385.73	437.05	488.37	3413	12	254.5	803390.6	5192.3	6230.8	6750	5346.9	6476.5	7229.6	11446.9
151-1519	O	48	0.812	59.81	280.3	68.86	78.11	87.36	20	0.472	11.8	6728.1	1168.1	1401.7	1518.5	1202.8	1457	1626.4	2575.1
		1219.2	20.638	1519.2	15071.8	336.22	381.37	426.52	3413	12	300	918779.6	5195.8	6235	6754.6	5350.5	6480.9	7234.5	11454.6
151-1524	O	52	0.688	59.99	280.7	62.61	70.9	79.2	20	0.472	8	7297.4	1169.5	1403.3	1520.3	1204.3	1458.7	1628.3	2578.1
		1320.8	17.462	1523.8	15089.7	305.68	346.19	386.69	3413	12	203	996521.9	5202	6242.4	6762.6	5356.8	6488.6	7243	11468.1
151-1116	O	40	0.875	43.94	281.2	81.8	92.4	103	20	0.472	3.9	5623.4	1171.5	1405.8	1523	1206.4	1461.3	1631.2	2582.7
		1016	22.225	1116	15116.6	399.36	451.14	502.91	3413	12	100	767924.7	5211.3	6253.5	6774.7	5366.4	6500.2	7256	11488.6
151-1014	O	36	1	39.94	281.3	91.96	103.87	115.78	20	0.472	3.9	5063.2	1172	1406.4	1523.6	1206.9	1461.9	1631.9	2583.8
		914.4	25.4	1014.4	15123	448.97	507.13	565.29	3413	12	100	691423.3	5213.5	6256.2	6777.5	5368.7	6502.9	7259	11493.5
151-1014	O	36	1	39.94	281.3	91.96	103.87	115.78	20	0.472	3.9	5063.2	1172	1406.4	1523.6	1206.9	1461.9	1631.9	2583.8
		914.4	25.4	1014.4	15123	448.97	507.13	565.29	3413	12	100	691423.5	5213.5	6256.2	6777.5	5368.7	6502.9	7259	11493.5
151-1525	O	50	0.75	60.02	281.4	65.81	74.58	83.36	20	0.472	10	7036	1172.7	1407.2	1524.5	1207.6	1462.7	1632.8	2585.2
		1270	19.05	1524.5	15131.2	321.3	364.15	407.01	3413	12	254.5	960833.1	5216.3	6259.6	6781.2	5371.6	6506.4	7263	11499.7
151-1385	O	52	0.625	54.52	281.8	61.72	69.7	77.69	20	0.472	2.5	7326.3	1174.1	1408.9	1526.3	1209	1464.5	1634.8	2588.4
		1320.8	15.875	1384.8	15149.6	301.36	340.33	379.3	3413	12	64	1000476.6	5222.6	6267.1	6789.4	5378.1	6514.3	7271.8	11513.7

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		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
152-1639	O	54	0.688	64.51	281.9	60.92	69.08	77.23	20	0.472	10.5	7610.9	1174.5	1409.4	1526.9	1209.5	1465	1635.4	2589.3
		1371.6	17.462	1638.6	15155	297.43	337.26	377.09	3413	12	267	1039332.4	5224.5	6269.4	6791.9	5380	6516.7	7274.4	11517.8
152-1399	O	48	0.75	55.09	282.1	68.06	76.99	85.92	20	0.472	7.1	6769.7	1175.3	1410.4	1527.9	1210.3	1466	1636.4	2591
		1219.2	19.05	1399.2	15165.1	332.28	375.88	419.48	3413	12	180	924464	5228	6273.6	6796.4	5383.6	6521	7279.2	11525.5
152-1065	O	38	0.938	41.94	282.5	86.95	98.22	109.48	20	0.472	3.9	5366.6	1176.9	1412.3	1529.9	1211.9	1468	1638.6	2594.5
		965.2	23.812	1065.2	15185.5	424.52	479.53	534.54	3413	12	100	732853	5235	6282	6805.5	5390.9	6529.8	7289	11541
152-1351	O	44	0.875	53.17	282.8	75.63	85.67	95.71	20	0.472	9.2	6221.9	1178.4	1414.1	1531.9	1213.5	1469.8	1640.7	2597.8
		1117.6	22.225	1350.6	15204.9	369.28	418.28	467.29	3413	12	233	849652	5241.7	6290.1	6814.2	5397.8	6538.1	7298.4	11555.8
152-1283	O	48	0.688	50.52	283	67.46	76.18	84.9	20	0.472	2.5	6793.2	1179.4	1415.2	1533.2	1214.5	1471.1	1642.1	2600
		1219.2	17.462	1283.2	15217.6	329.37	371.94	414.51	3413	12	64	927665.2	5246.1	6295.3	6819.9	5402.2	6543.6	7304.5	11565.4
152-1602	O	56	0.625	63.09	283.2	58.08	65.71	73.34	20	0.472	7.1	7928.3	1179.8	1415.8	1533.8	1214.9	1471.6	1642.7	2601
		1422.4	15.875	1602.4	15223.3	283.57	320.82	358.07	3413	12	180	1082682.2	5248.1	6297.7	6822.5	5404.3	6546	7307.2	11569.7
153-1626	O	54	0.688	64.02	284.1	61.24	69.41	77.58	20	0.472	10	7669.4	1183.5	1420.3	1538.6	1218.8	1476.3	1647.9	2609.2
		1371.6	17.462	1626.1	15271.5	299	338.89	378.79	3413	12	254.5	1047321.8	5264.7	6317.6	6844.1	5421.4	6566.8	7330.3	11606.4
153-1249	O	40	1	49.17	284.4	84.43	95.61	106.8	20	0.472	9.2	5688.4	1185.1	1422.1	1540.6	1220.4	1478.2	1650.1	2612.6
		1016	25.4	1249	15291.4	412.21	466.82	521.42	3413	12	233	776803.8	5271.5	6325.8	6853	5428.5	6575.3	7339.9	11621.5
153-1249	O	40	1	49.17	284.4	84.43	95.61	106.8	20	0.472	9.2	5688.4	1185.1	1422.1	1540.6	1220.4	1478.2	1650.1	2612.6
		1016	25.4	1249	15291.4	412.21	466.82	521.42	3413	12	233	776804.2	5271.5	6325.8	6853	5428.5	6575.3	7339.9	11621.5
153-1300	O	42	0.938	51.17	284.8	80.12	90.74	101.36	20	0.472	9.2	5980.4	1186.6	1423.9	1542.6	1221.9	1480.1	1652.2	2615.9
		1066.8	23.812	1299.8	15310.8	391.17	443.02	494.87	3413	12	233	816679.5	5278.2	6333.9	6861.7	5435.3	6583.7	7349.2	11636.2
153-1501	O	52	0.688	59.09	285	63.17	71.46	79.75	20	0.472	7.1	7409.2	1187.4	1424.8	1543.6	1222.7	1481	1653.3	2617.7
		1320.8	17.462	1500.8	15320.9	308.43	348.91	389.39	3413	12	180	1011793.7	5281.7	6338	6866.2	5438.9	6588	7354	11643.9
153-1503	O	50	0.75	59.17	285.5	66.58	75.43	84.28	20	0.472	9.2	7136.7	1189.4	1427.3	1546.3	1224.9	1483.6	1656.1	2622.2
		1270	19.05	1503	15347.7	325.09	368.28	411.47	3413	12	233	974577.5	5290.9	6349.1	6878.2	5448.4	6599.5	7366.9	11664.2
154-1824	O	60	0.625	71.81	286.2	55.6	63.08	70.56	20	0.472	11.8	8586	1192.5	1431	1550.2	1228	1487.4	1660.4	2628.9
		1524	15.875	1824	15387	271.45	307.98	344.51	3413	12	300	1172489	5304.5	6365.4	6895.8	5462.4	6616.4	7385.8	11694.1
154-1131	O	42	0.812	44.52	286.3	78.71	88.88	99.04	20	0.472	2.5	6011.4	1192.7	1431.3	1550.6	1228.2	1487.7	1660.7	2629.5
		1066.8	20.638	1130.8	15390.2	384.31	433.94	483.57	3413	12	64	820913.5	5305.6	6366.7	6897.3	5463.5	6617.8	7387.3	11696.6

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		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
154-1472	O	54	0.625	57.94	286.3	60.48	68.33	76.18	20	0.472	3.9	7731	1193.1	1431.7	1551	1228.6	1488.1	1661.2	2630.2
		1371.6	15.875	1471.6	15394.3	295.29	333.61	371.93	3413	12	100	1055742	5307	6368.4	6899.1	5465	6619.6	7389.3	11699.7
154-1486	O	48	0.812	58.51	286.6	70.13	79.49	88.85	20	0.472	10.5	6877.5	1194	1432.8	1552.2	1229.5	1489.3	1662.5	2632.3
		1219.2	20.638	1486.2	15406.5	342.38	388.1	433.82	3413	12	267	939180.5	5311.2	6373.4	6904.6	5469.3	6624.8	7395.1	11708.9
154-1621	O	52	0.75	63.81	286.8	64.7	73.39	82.08	20	0.472	11.8	7457.3	1195.1	1434.1	1553.6	1230.7	1490.7	1664	2634.6
		1320.8	19.05	1620.8	15420.4	315.91	358.32	400.74	3413	12	300	1018361.3	5316	6379.2	6910.8	5474.2	6630.8	7401.8	11719.5
155-1418	O	44	0.938	55.81	287.5	77.53	87.91	98.29	20	0.472	11.8	6324.1	1197.7	1437.3	1557.1	1233.4	1494	1667.7	2640.5
		1117.6	23.812	1417.6	15454.7	378.55	429.22	479.88	3413	12	300	863607.5	5327.8	6393.4	6926.2	5486.4	6645.5	7418.2	11745.6
155-1367	O	42	1	53.81	287.6	81.61	92.53	103.44	20	0.472	11.8	6039.2	1198.3	1437.9	1557.7	1233.9	1494.6	1668.4	2641.6
		1066.8	25.4	1366.8	15461.3	398.48	451.76	505.04	3413	12	300	824706.9	5330.1	6396.1	6929.1	5488.8	6648.4	7421.4	11750.6
155-1367	O	42	1	53.81	287.6	81.61	92.53	103.44	20	0.472	11.8	6039.2	1198.3	1437.9	1557.7	1233.9	1494.6	1668.4	2641.6
		1066.8	25.4	1366.8	15461.3	398.48	451.76	505.04	3413	12	300	824707.3	5330.1	6396.1	6929.1	5488.8	6648.4	7421.4	11750.6
155-1605	O	54	0.688	63.17	287.9	61.9	70.13	78.36	20	0.472	9.2	7772.1	1199.4	1439.3	1559.2	1235.1	1496	1670	2644.2
		1371.6	17.462	1604.6	15476.2	302.24	342.41	382.59	3413	12	233	1061354.9	5335.2	6402.3	6935.8	5494	6654.7	7428.6	11761.9
155-1370	O	50	0.688	53.94	288.2	66	74.56	83.12	20	0.472	3.9	7204.1	1200.7	1440.8	1560.9	1236.4	1497.6	1671.8	2647
		1270	17.462	1370	15492.7	322.23	364.03	405.82	3413	12	100	983788.3	5340.9	6409.1	6943.2	5499.9	6661.9	7436.5	11774.5
155-1722	O	56	0.688	67.81	288.8	60.27	68.36	76.46	20	0.472	11.8	8086.3	1203.3	1444	1564.3	1239.1	1500.9	1675.5	2652.8
		1422.4	17.462	1722.4	15526.7	294.24	333.78	373.31	3413	12	300	1104255.7	5352.6	6423.1	6958.4	5512	6676.5	7452.8	11800.3
155-1474	O	48	0.812	58.02	289	70.56	79.95	89.34	20	0.472	10	6935.8	1204.1	1445	1565.4	1240	1501.9	1676.6	2654.6
		1219.2	20.638	1473.7	15537.2	344.49	390.33	436.18	3413	12	254.5	947146.6	5356.3	6427.5	6963.1	5515.7	6681	7457.8	11808.3
156-1321	O	44	0.875	51.99	289.2	77.09	87.27	97.45	20	0.472	8	6363.2	1205.2	1446.2	1566.7	1241	1503.2	1678	2656.9
		1117.6	22.225	1320.6	15550.3	376.4	426.1	475.79	3413	12	203	868953.5	5360.8	6432.9	6969	5520.4	6686.7	7464.2	11818.3
156-1624	O	60	0.562	63.94	290.2	54.92	62.05	69.18	20	0.472	3.9	8706.3	1209.2	1451	1572	1245.2	1508.3	1683.6	2665.8
		1524	14.288	1624	15602.6	268.16	302.96	337.75	3413	12	100	1188916.3	5378.8	6454.6	6992.4	5538.9	6709.1	7489.2	11858
156-1080	O	40	0.875	42.52	290.5	84.27	95.15	106.02	20	0.472	2.5	5810.8	1210.6	1452.7	1573.8	1246.6	1510	1685.6	2668.8
		1016	22.225	1080	15620.5	411.46	464.55	517.65	3413	12	64	793522.2	5385	6462	7000.5	5545.3	6716.8	7497.8	11871.6
157-1473	O	50	0.75	57.99	291.3	67.71	76.66	85.6	20	0.472	8	7282	1213.7	1456.4	1577.8	1249.8	1513.8	1689.9	2675.6
		1270	19.05	1473	15660.3	330.57	374.26	417.96	3413	12	203	994426.3	5398.7	6478.4	7018.3	5559.4	6733.9	7516.9	11901.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
157-1219	O	40	1	47.99	291.4	86.22	97.59	108.96	20	0.472	8	5828.4	1214.3	1457.1	1578.5	1250.4	1514.6	1690.7	2676.9
		1016	25.4	1219	15667.7	420.99	476.48	531.97	3413	12	203	795921.2	5401.3	6481.5	7021.6	5562	6737.1	7520.5	11907.5
157-1219	O	40	1	47.99	291.4	86.22	97.59	108.96	20	0.472	8	5828.4	1214.3	1457.1	1578.5	1250.4	1514.6	1690.7	2676.9
		1016	25.4	1219	15667.7	420.99	476.48	531.97	3413	12	203	795921.6	5401.3	6481.5	7021.6	5562.1	6737.1	7520.5	11907.5
157-1791	O	60	0.625	70.51	291.5	56.4	63.95	71.49	20	0.472	10.5	8744.2	1214.5	1457.4	1578.8	1250.6	1514.8	1691	2677.4
		1524	15.875	1791	15670.5	275.37	312.21	349.06	3413	12	267	1194092.7	5402.2	6482.7	7022.9	5563	6738.3	7521.8	11909.6
157-1270	O	42	0.938	49.99	291.5	81.74	92.52	103.3	20	0.472	8	6121.7	1214.6	1457.5	1579	1250.8	1515	1691.2	2677.7
		1066.8	23.812	1269.8	15672.6	399.09	451.73	504.37	3413	12	203	835974.2	5402.9	6483.5	7023.8	5563.8	6739.2	7522.8	11911.1
157-978	O	36	1	38.52	291.6	95.06	107.32	119.58	20	0.472	2.5	5249.5	1215.2	1458.2	1579.7	1251.3	1515.7	1691.9	2678.9
		914.4	25.4	978.4	15679.4	464.14	524	583.85	3413	12	64	716864.1	5405.3	6486.3	7026.9	5566.2	6742.2	7526.1	11916.4
157-978	O	36	1	38.52	291.6	95.06	107.32	119.58	20	0.472	2.5	5249.5	1215.2	1458.2	1579.7	1251.3	1515.7	1691.9	2678.9
		914.4	25.4	978.4	15679.4	464.14	524	583.85	3413	12	64	716864.3	5405.3	6486.4	7026.9	5566.2	6742.2	7526.1	11916.4
157-1380	O	42.5	1	54.31	292	81.81	92.74	103.67	20	0.472	11.8	6205.1	1216.7	1460	1581.7	1252.9	1517.6	1694.1	2682.3
		1079.5	25.4	1379.5	15699.2	399.42	452.79	506.16	3413	12	300	847362.9	5412.1	6494.5	7035.7	5573.2	6750.6	7535.6	11931.4
157-1029	O	38	0.938	40.52	292.3	89.73	101.3	112.88	20	0.472	2.5	5554.3	1218	1461.7	1583.5	1254.3	1519.3	1696	2685.3
		965.2	23.812	1029.2	15716.7	438.09	494.6	551.11	3413	12	64	758487.2	5418.1	6501.8	7043.6	5579.4	6758.2	7544	11944.7
157-1218	O	44	0.812	47.94	292.5	76.8	86.75	96.7	20	0.472	3.9	6436.1	1219	1462.7	1584.6	1255.2	1520.4	1697.2	2687.3
		1117.6	20.638	1217.6	15728.4	374.98	423.55	472.13	3413	12	100	878901.1	5422.2	6506.6	7048.8	5583.6	6763.2	7549.6	11953.6
157-1588	O	52	0.75	62.51	292.8	65.8	74.58	83.37	20	0.472	10.5	7612.3	1219.9	1463.9	1585.9	1256.2	1521.6	1698.6	2689.4
		1320.8	19.05	1587.8	15740.9	321.26	364.15	407.04	3413	12	267	1039526.4	5426.5	6511.8	7054.4	5588	6768.6	7555.6	11963.1
158-1452	O	48	0.812	57.17	293.3	71.43	80.9	90.37	20	0.472	9.2	7038.5	1222	1466.4	1588.5	1258.3	1524.2	1701.4	2693.9
		1219.2	20.638	1452.2	15767.2	348.75	394.99	441.23	3413	12	233	961169.3	5435.6	6522.7	7066.2	5597.4	6779.9	7568.3	11983.1
158-1575	O	54	0.688	61.99	293.3	62.87	71.18	79.49	20	0.472	8	7920.2	1222.3	1466.7	1588.9	1258.6	1524.6	1701.8	2694.6
		1371.6	17.462	1574.6	15771	306.94	347.52	388.11	3413	12	203	1081576.3	5436.9	6524.2	7067.9	5598.7	6781.5	7570.1	11986
158-1436	O	54	0.625	56.52	293.5	61.81	69.79	77.77	20	0.472	2.5	7924.9	1223	1467.6	1589.9	1259.4	1525.5	1702.8	2696.1
		1371.6	15.875	1435.6	15780.4	301.78	340.75	379.73	3413	12	64	1082216.5	5440.1	6528.1	7072.1	5602	6785.6	7574.6	11993.1
158-1779	O	60	0.625	70.02	293.5	56.66	64.22	71.77	20	0.472	10	8805.6	1223	1467.6	1589.9	1259.4	1525.5	1702.9	2696.2
		1524	15.875	1778.5	15780.6	276.65	313.53	350.42	3413	12	254.5	1202485.2	5440.2	6528.2	7072.2	5602.1	6785.7	7574.7	11993.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
158-1385	O	44	0.938	54.51	294.3	79.1	89.62	100.15	20	0.472	10.5	6474.8	1226.3	1471.5	1594.2	1262.8	1529.6	1707.4	2703.4
		1117.6	23.812	1384.6	15823	386.18	437.59	488.99	3413	12	267	884190.4	5454.8	6545.7	7091.2	5617.2	6803.9	7595	12025.5
158-1298	O	44	0.875	51.09	294.4	78	88.21	98.41	20	0.472	7.1	6476	1226.5	1471.8	1594.5	1263	1529.9	1707.8	2703.9
		1117.6	22.225	1297.6	15826	380.83	430.66	480.49	3413	12	180	884355.7	5455.8	6547	7092.6	5618.2	6805.2	7596.5	12027.7
158-1689	O	56	0.688	66.51	294.4	61.21	69.39	77.56	20	0.472	10.5	8244.3	1226.8	1472.2	1594.9	1263.3	1530.2	1708.2	2704.6
		1422.4	17.462	1689.4	15829.9	298.85	338.77	378.7	3413	12	267	1125825.7	5457.2	6548.6	7094.3	5619.6	6806.9	7598.4	12030.8
158-1334	O	42	1	52.51	294.7	83.34	94.42	105.51	20	0.472	10.5	6188.6	1227.9	1473.5	1596.3	1264.5	1531.6	1709.7	2707
		1066.8	25.4	1333.8	15843.9	406.89	461	515.12	3413	12	267	845111.3	5462	6554.4	7100.6	5624.6	6812.9	7605.1	12041.3
158-1334	O	42	1	52.51	294.7	83.34	94.42	105.51	20	0.472	10.5	6188.6	1227.9	1473.5	1596.3	1264.5	1531.6	1709.7	2707
		1066.8	25.4	1333.8	15843.9	406.89	461	515.12	3413	12	267	845111.7	5462	6554.4	7100.6	5624.6	6812.9	7605.1	12041.3
159-1570	O	50	0.812	61.81	294.9	69.33	78.62	87.9	20	0.472	11.8	7373.6	1228.9	1474.7	1597.6	1265.5	1532.9	1711.1	2709.3
		1270	20.638	1570	15857.3	338.51	383.85	429.18	3413	12	300	1006936.3	5466.6	6559.9	7106.6	5629.3	6818.6	7611.5	12051.5
159-1575	O	52	0.75	62.02	295.1	66.17	74.97	83.78	20	0.472	10	7672.7	1229.6	1475.5	1598.5	1266.2	1533.7	1712	2710.7
		1320.8	19.05	1575.3	15865.8	323.06	366.05	409.03	3413	12	254.5	1047775	5469.5	6563.4	7110.4	5632.3	6822.3	7615.6	12058
159-1450	O	50	0.75	57.09	295.9	68.37	77.32	86.28	20	0.472	7.1	7397.5	1232.9	1479.5	1602.8	1269.6	1537.9	1716.7	2718.1
		1270	19.05	1450	15908.7	333.81	377.53	421.25	3413	12	180	1010200	5484.3	6581.2	7129.6	5647.6	6840.7	7636.2	12090.6
159-1334	O	50	0.688	52.52	295.9	67.58	76.3	85.02	20	0.472	2.5	7398.5	1233.1	1479.7	1603	1269.8	1538.1	1716.9	2718.4
		1270	17.462	1334	15910.8	329.95	372.54	415.13	3413	12	64	1010337.3	5485.1	6582.1	7130.6	5648.3	6841.7	7637.2	12092.2
159-1677	O	56	0.688	66.02	296.6	61.52	69.71	77.9	20	0.472	10	8305.7	1236	1483.2	1606.8	1272.8	1541.7	1720.9	2724.8
		1422.4	17.462	1676.9	15947.9	300.38	340.37	380.36	3413	12	254.5	1134217.9	5497.9	6597.4	7147.2	5661.5	6857.6	7655	12120.4
160-1588	O	60	0.562	62.52	296.8	56	63.23	70.46	20	0.472	2.5	8903.6	1236.6	1483.9	1607.6	1273.4	1542.5	1721.8	2726.2
		1524	14.288	1588	15956.3	273.41	308.72	344.03	3413	12	64	1215869	5500.7	6600.9	7151	5664.5	6861.2	7659	12126.8
160-1247	O	42	0.938	49.09	296.9	82.77	93.59	104.41	20	0.472	7.1	6234.6	1237	1484.4	1608.1	1273.9	1543	1722.4	2727.1
		1066.8	23.812	1246.8	15961.7	404.13	456.96	509.79	3413	12	180	851395.6	5502.6	6603.1	7153.4	5666.4	6863.5	7661.6	12130.9
160-1372	O	44	0.938	54.02	297	79.64	90.21	100.78	20	0.472	10	6533.8	1237.5	1484.9	1608.7	1274.3	1543.5	1723	2728.1
		1117.6	23.812	1372.1	15967.2	388.84	440.44	492.03	3413	12	254.5	892245.5	5504.5	6605.4	7155.8	5668.3	6865.9	7664.2	12135
160-1196	O	40	1	47.09	297	87.39	98.8	110.22	20	0.472	7.1	5940.5	1237.6	1485.1	1608.9	1274.4	1543.7	1723.2	2728.4
		1016	25.4	1196	15969	426.65	482.4	538.15	3413	12	180	811227.4	5505.1	6606.2	7156.7	5669	6866.7	7665.1	12136.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
160-1196	O	40	1	47.09	297	87.39	98.8	110.22	20	0.472	7.1	5940.5	1237.6	1485.1	1608.9	1274.4	1543.7	1723.2	2728.4
		1016	25.4	1196	15969.1	426.65	482.4	538.15	3413	12	180	811227.8	5505.1	6606.2	7156.7	5669	6866.7	7665.1	12136.5
160-1757	O	60	0.625	69.17	297.1	57.21	64.81	72.41	20	0.472	9.2	8913.4	1238	1485.6	1609.4	1274.8	1544.1	1723.7	2729.2
		1524	15.875	1757	15973.8	279.33	316.44	353.54	3413	12	233	1217199.8	5506.8	6608.1	7158.8	5670.7	6868.7	7667.4	12140.1
160-1167	O	42	0.875	45.94	297.4	82.14	92.78	103.41	20	0.472	3.9	6246	1239.3	1487.1	1611.1	1276.2	1545.8	1725.5	2732.1
		1066.8	22.225	1166.8	15990.7	401.07	452.97	504.88	3413	12	100	852943.9	5512.6	6615.1	7166.4	5676.7	6876	7675.5	12152.9
160-1321	O	42	1	52.02	297.5	83.94	95.07	106.2	20	0.472	10	6247.2	1239.5	1487.4	1611.4	1276.4	1546.1	1725.9	2732.6
		1066.8	25.4	1321.3	15993.7	409.85	464.18	518.52	3413	12	254.5	853106.3	5513.7	6616.4	7167.7	5677.8	6877.3	7677	12155.2
160-1321	O	42	1	52.02	297.5	83.94	95.07	106.2	20	0.472	10	6247.2	1239.5	1487.4	1611.4	1276.4	1546.1	1725.9	2732.6
		1066.8	25.4	1321.3	15993.8	409.85	464.18	518.52	3413	12	254.5	853106.8	5513.7	6616.4	7167.7	5677.8	6877.3	7677	12155.3
160-1552	O	54	0.688	61.09	297.7	63.41	71.72	80.03	20	0.472	7.1	8037.6	1240.4	1488.4	1612.5	1277.3	1547.1	1727.1	2734.5
		1371.6	17.462	1551.6	16004.8	309.61	350.18	390.74	3413	12	180	1097608.9	5517.5	6620.9	7172.7	5681.7	6882.1	7682.3	12163.6
160-1522	O	56	0.625	59.94	298	60.6	68.46	76.31	20	0.472	3.9	8344.9	1241.8	1490.2	1614.3	1278.8	1548.9	1729	2737.7
		1422.4	15.875	1522.4	16023.3	295.89	334.23	372.58	3413	12	100	1139575.7	5523.8	6628.6	7181	5688.3	6890	7691.2	12177.7
161-1347	O	42.5	1	53.01	299.2	83.52	94.62	105.72	20	0.472	10.5	6357.2	1246.5	1495.8	1620.5	1283.6	1554.8	1735.6	2748
		1079.5	25.4	1346.5	16083.9	407.78	461.97	516.17	3413	12	267	868130	5544.7	6653.7	7208.2	5709.8	6916.1	7720.3	12223.8
161-1319	O	48	0.75	51.94	299.2	71.57	80.84	90.11	20	0.472	3.9	7180.2	1246.6	1495.9	1620.5	1283.7	1554.9	1735.7	2748.2
		1219.2	19.05	1319.2	16084.7	349.46	394.71	439.96	3413	12	100	980526.1	5545	6654	7208.5	5710.1	6916.4	7720.7	12224.4
161-1554	O	52	0.75	61.17	299.2	66.92	75.79	84.67	20	0.472	9.2	7778.9	1246.6	1495.9	1620.6	1283.7	1554.9	1735.7	2748.3
		1320.8	19.05	1553.8	16085.3	326.74	370.06	413.38	3413	12	233	1062273.1	5545.2	6654.2	7208.8	5710.3	6916.7	7720.9	12224.8
161-1422	O	48	0.812	55.99	299.5	72.7	82.29	91.88	20	0.472	8	7187	1247.7	1497.3	1622.1	1284.9	1556.3	1737.3	2750.7
		1219.2	20.638	1422.2	16099.8	354.93	401.75	448.58	3413	12	203	981444.2	5550.2	6660.2	7215.3	5715.4	6922.9	7727.9	12235.9
161-1065	O	38	1	41.94	299.8	92.47	104.42	116.38	20	0.472	3.9	5695.9	1249.1	1498.9	1623.8	1286.3	1558	1739.2	2753.8
		965.2	25.4	1065.2	16117.5	451.46	509.83	568.21	3413	12	100	777832.3	5556.3	6667.6	7223.2	5721.7	6930.5	7736.4	12249.3
161-1116	O	40	0.938	43.94	299.8	87.37	98.67	109.97	20	0.472	3.9	5996.7	1249.3	1499.2	1624.1	1286.5	1558.3	1739.5	2754.2
		1016	23.812	1116	16120.1	426.58	481.76	536.94	3413	12	100	818902.3	5557.2	6668.7	7224.4	5722.6	6931.7	7737.7	12251.3
161-1672	O	54	0.75	65.81	300.4	65.08	73.79	82.51	20	0.472	11.8	8110.5	1251.6	1501.9	1627.1	1288.9	1561.2	1742.7	2759.3
		1371.6	19.05	1671.6	16149.9	317.73	360.28	402.84	3413	12	300	1107561.6	5567.5	6681	7237.7	5733.2	6944.5	7752	12273.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
162-1655	O	56	0.688	65.17	300.5	62.17	70.42	78.66	20	0.472	9.2	8413.6	1252	1502.4	1627.6	1289.3	1561.7	1743.3	2760.2
		1422.4	17.462	1655.4	16155.1	303.54	343.8	384.06	3413	12	233	1148948.9	5569.3	6683.1	7240	5735.1	6946.7	7754.4	12277.9
162-1519	O	48	0.875	59.81	300.7	73.83	83.7	93.57	20	0.472	11.8	7217.2	1253	1503.6	1628.9	1290.3	1562.9	1744.6	2762.3
		1219.2	22.225	1519.2	16167.6	360.47	408.65	456.83	3413	12	300	985577.9	5573.6	6688.3	7245.7	5739.5	6952.1	7760.5	12287.4
162-1421	O	52	0.688	55.94	301	66.16	74.73	83.3	20	0.472	3.9	7826.4	1254.2	1505.1	1630.5	1291.6	1564.4	1746.3	2765
		1320.8	17.462	1420.8	16183.6	323.03	364.87	406.7	3413	12	100	1068764.1	5579.1	6694.9	7252.8	5745.2	6958.9	7768.1	12299.5
162-1537	O	50	0.812	60.51	301.3	70.56	79.96	89.36	20	0.472	10.5	7532	1255.3	1506.4	1631.9	1292.7	1565.8	1747.9	2767.5
		1270	20.638	1537	16197.7	344.52	390.41	436.3	3413	12	267	1028555.6	5584	6700.8	7259.2	5750.2	6965	7774.9	12310.3
162-1182	O	44	0.812	46.52	301.5	78.91	89.09	99.27	20	0.472	2.5	6632.1	1256.1	1507.3	1632.9	1293.5	1566.8	1748.9	2769.1
		1117.6	20.638	1181.6	16207.6	385.29	434.98	484.66	3413	12	64	905678.7	5587.4	6704.8	7263.6	5753.7	6969.3	7779.6	12317.7
162-1351	O	44	0.938	53.17	301.7	80.72	91.4	102.07	20	0.472	9.2	6637.8	1257.2	1508.6	1634.3	1294.6	1568.1	1750.4	2771.5
		1117.6	23.812	1350.6	16221.3	394.13	446.24	498.35	3413	12	233	906449	5592.1	6710.5	7269.7	5758.6	6975.2	7786.2	12328.2
162-1334	O	42.5	1	52.52	302	84.12	95.27	106.41	20	0.472	10	6416.8	1258.2	1509.8	1635.6	1295.6	1569.4	1751.9	2773.8
		1079.5	25.4	1334	16234.6	410.72	465.13	519.54	3413	12	254.5	876264.7	5596.7	6716	7275.7	5763.3	6980.9	7792.6	12338.3
163-1727	O	60	0.625	67.99	302.3	58.01	65.67	73.34	20	0.472	8	9068.2	1259.5	1511.4	1637.3	1297	1571	1753.6	2776.6
		1524	15.875	1727	16251.2	283.22	320.64	358.07	3413	12	203	1238343.9	5602.4	6722.9	7283.1	5769.2	6988	7800.6	12350.9
163-1300	O	42	1	51.17	302.4	85.14	96.39	107.64	20	0.472	9.2	6350.5	1260	1512	1638	1297.5	1571.7	1754.4	2777.8
		1066.8	25.4	1299.8	16258.3	415.69	470.61	525.52	3413	12	233	867217.6	5604.9	6725.8	7286.3	5771.7	6991.1	7804	12356.3
163-1300	O	42	1	51.17	302.4	85.14	96.39	107.64	20	0.472	9.2	6350.5	1260	1512	1638	1297.5	1571.7	1754.4	2777.8
		1066.8	25.4	1299.8	16258.3	415.69	470.61	525.52	3413	12	233	867218	5604.9	6725.8	7286.3	5771.7	6991.1	7804	12356.3
163-1525	O	50	0.812	60.02	303.7	70.99	80.41	89.83	20	0.472	10	7593.7	1265.6	1518.7	1645.3	1303.3	1578.6	1762.2	2790.2
		1270	20.638	1524.5	16330.5	346.58	392.59	438.6	3413	12	254.5	1036989.2	5629.8	6755.7	7318.7	5797.3	7022.1	7838.7	12411.2
164-1399	O	48	0.812	55.09	304.4	73.46	83.07	92.68	20	0.472	7.1	7305.1	1268.2	1521.9	1648.7	1306	1581.9	1765.9	2795.9
		1219.2	20.638	1399.2	16364.5	358.69	405.59	452.49	3413	12	180	997577.2	5641.4	6769.7	7333.9	5809.4	7036.7	7854.9	12437
164-1524	O	52	0.75	59.99	305.1	68.02	76.99	85.96	20	0.472	8	7932	1271.2	1525.4	1652.5	1309	1585.5	1769.9	2802.4
		1320.8	19.05	1523.8	16402	332.08	375.88	419.69	3413	12	203	1083186.8	5654.4	6785.3	7350.7	5822.7	7052.9	7873	12465.5
164-1486	O	56	0.625	58.52	305.3	61.89	69.87	77.86	20	0.472	2.5	8547.1	1271.9	1526.3	1653.4	1309.7	1586.5	1770.9	2804
		1422.4	15.875	1486.4	16411.4	302.17	341.15	380.13	3413	12	64	1167175.7	5657.6	6789.1	7354.9	5826	7056.9	7877.5	12472.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
164-1418	O	44	1	55.81	305.3	82.37	93.35	104.33	20	0.472	11.8	6716.8	1272.1	1526.5	1653.7	1310	1586.7	1771.2	2804.5
		1117.6	25.4	1417.6	16414.3	402.16	455.77	509.39	3413	12	300	917233.4	5658.6	6790.4	7356.2	5827.1	7058.2	7878.9	12474.9
165-1625	O	56	0.688	63.99	306	63.11	71.43	79.76	20	0.472	8	8568.9	1275.1	1530.2	1657.7	1313.1	1590.5	1775.4	2811.1
		1422.4	17.462	1625.4	16453.2	308.11	348.77	389.44	3413	12	203	1170155	5672.1	6806.5	7373.7	5840.9	7074.9	7897.6	12504.5
165-1704	O	60	0.625	67.09	306.4	58.44	66.09	73.75	20	0.472	7.1	9190.6	1276.5	1531.8	1659.4	1314.5	1592.2	1777.3	2814.1
		1524	15.875	1704	16470.6	285.34	322.7	360.06	3413	12	180	1255058.7	5678	6813.6	7381.4	5847.1	7082.4	7905.9	12517.6
165-1639	O	54	0.75	64.51	306.4	66.15	74.96	83.77	20	0.472	10.5	8273.8	1276.8	1532.2	1659.9	1314.8	1592.6	1777.8	2814.9
		1371.6	19.05	1638.6	16475.2	322.95	365.97	408.99	3413	12	267	1129867	5679.6	6815.5	7383.5	5848.7	7084.3	7908.1	12521.1
165-1131	O	42	0.875	44.52	306.9	84.52	95.41	106.3	20	0.472	2.5	6444.8	1278.7	1534.5	1662.4	1316.8	1595	1780.5	2819.1
		1066.8	22.225	1130.8	16499.8	412.67	465.84	519.02	3413	12	64	880098.2	5688.1	6825.7	7394.5	5857.4	7094.9	7919.9	12539.8
165-1313	O	42.5	1	51.67	306.9	85.31	96.57	107.84	20	0.472	9.2	6521.9	1278.8	1534.6	1662.4	1316.9	1595.1	1780.5	2819.2
		1079.5	25.4	1312.5	16500.6	416.52	471.51	526.5	3413	12	233	890618.7	5688.4	6826	7394.9	5857.7	7095.2	7920.3	12540.4
165-1486	O	48	0.875	58.51	307.4	75.2	85.2	95.2	20	0.472	10.5	7377.5	1280.8	1537	1665.1	1318.9	1597.6	1783.4	2823.7
		1219.2	22.225	1486.2	16526.6	367.17	415.99	464.81	3413	12	267	1007462	5697.3	6836.8	7406.5	5866.9	7106.4	7932.8	12560.2
165-1283	O	48	0.75	50.52	307.6	73.37	82.83	92.29	20	0.472	2.5	7381.7	1281.5	1537.8	1666	1319.7	1598.5	1784.4	2825.3
		1219.2	19.05	1283.2	16536	358.24	404.41	450.59	3413	12	64	1008034.6	5700.6	6840.7	7410.8	5870.3	7110.5	7937.3	12567.4
166-1503	O	50	0.812	59.17	308.1	71.83	81.34	90.84	20	0.472	9.2	7702.3	1283.7	1540.5	1668.8	1321.9	1601.2	1787.4	2830.1
		1270	20.638	1503	16564.1	350.72	397.12	443.52	3413	12	233	1051823	5710.3	6852.3	7423.4	5880.3	7122.6	7950.8	12588.7
166-1545	O	49	0.875	60.81	308.2	74.09	83.98	93.87	20	0.472	11.8	7552	1284.3	1541.2	1669.7	1322.6	1602	1788.3	2831.4
		1244.6	22.225	1544.6	16572.2	361.75	410.04	458.33	3413	12	300	1031288.2	5713.1	6855.7	7427	5883.1	7126	7954.7	12594.9
166-1321	O	44	0.938	51.99	308.6	82.3	93.13	103.96	20	0.472	8	6788.6	1285.7	1542.9	1671.4	1324	1603.7	1790.2	2834.5
		1117.6	23.812	1320.6	16589.8	401.81	454.69	507.56	3413	12	203	927040.7	5719.2	6863	7434.9	5889.4	7133.6	7963.1	12608.3
166-1626	O	54	0.75	64.02	308.8	66.51	75.34	84.16	20	0.472	10	8337.4	1286.6	1544	1672.6	1324.9	1604.9	1791.5	2836.5
		1371.6	19.05	1626.1	16601.8	324.71	367.82	410.93	3413	12	254.5	1138552.4	5723.3	6867.9	7440.3	5893.6	7138.8	7968.9	12617.4
166-1385	O	52	0.688	54.52	308.8	67.69	76.41	85.14	20	0.472	2.5	8029.9	1286.8	1544.2	1672.9	1325.1	1605.1	1791.7	2836.9
		1320.8	17.462	1384.8	16604.3	330.48	373.09	415.69	3413	12	64	1096548.2	5724.1	6869	7441.4	5894.5	7139.9	7970.1	12619.3
166-1270	O	42	1	49.99	309.5	86.88	98.31	109.73	20	0.472	8	6500.5	1289.8	1547.7	1676.7	1328.2	1608.8	1795.9	2843.4
		1066.8	25.4	1269.8	16642.4	424.19	479.97	535.75	3413	12	203	887706.3	5737.3	6884.7	7458.4	5908.1	7156.2	7988.4	12648.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
166-1270	O	42	1	49.99	309.5	86.88	98.31	109.73	20	0.472	8	6500.5	1289.8	1547.7	1676.7	1328.2	1608.8	1795.9	2843.4
		1066.8	25.4	1269.8	16642.4	424.19	479.97	535.75	3413	12	203	887706.7	5737.3	6884.7	7458.5	5908.1	7156.2	7988.4	12648.2
166-1621	O	52	0.812	63.81	309.6	69.77	79.09	88.42	20	0.472	11.8	8049.5	1290	1548	1677	1328.4	1609	1796.1	2843.9
		1320.8	20.638	1620.8	16645	340.66	386.17	431.68	3413	12	300	1099234.9	5738.2	6885.8	7459.6	5909	7157.3	7989.6	12650.2
167-1501	O	52	0.75	59.09	309.8	68.66	77.64	86.61	20	0.472	7.1	8053.6	1290.6	1548.8	1677.8	1329.1	1609.8	1797	2845.3
		1320.8	19.05	1500.8	16653.3	335.23	379.06	422.89	3413	12	180	1099786.8	5741	6889.2	7463.3	5911.9	7160.9	7993.6	12656.5
167-1080	O	40	0.938	42.52	309.8	90.03	101.63	113.22	20	0.472	2.5	6196.6	1291	1549.1	1678.2	1329.4	1610.2	1797.5	2846
		1016	23.812	1080	16657.5	439.59	496.2	552.81	3413	12	64	846199.1	5742.5	6890.9	7465.2	5913.4	7162.7	7995.6	12659.7
167-1474	O	48	0.875	58.02	310	75.68	85.71	95.74	20	0.472	10	7440.1	1291.7	1550	1679.2	1330.1	1611.1	1798.5	2847.6
		1219.2	22.225	1473.7	16666.8	369.49	418.46	467.43	3413	12	254.5	1016007.3	5745.7	6894.8	7469.4	5916.7	7166.7	8000.1	12666.8
167-1029	O	38	1	40.52	310.3	95.44	107.73	120.01	20	0.472	2.5	5895.2	1292.8	1551.4	1680.6	1331.3	1612.5	1800.1	2850.1
		965.2	25.4	1029.2	16681.3	465.97	525.96	585.95	3413	12	64	805039.8	5750.7	6900.8	7475.9	5921.9	7173	8007	12677.8
167-1602	O	56	0.688	63.09	310.4	63.64	71.96	80.29	20	0.472	7.1	8691.9	1293.4	1552.1	1681.5	1331.9	1613.3	1800.9	2851.5
		1422.4	17.462	1602.4	16689.4	310.72	351.36	392	3413	12	180	1186950.8	5753.5	6904.2	7479.5	5924.7	7176.4	8010.9	12684
168-1385	O	44	1	54.51	312.6	84.05	95.19	106.34	20	0.472	10.5	6876.8	1302.4	1562.9	1693.2	1341.2	1624.6	1813.5	2871.3
		1117.6	25.4	1384.6	16805.6	410.35	464.77	519.2	3413	12	267	939094.3	5793.5	6952.2	7531.6	5966	7226.4	8066.7	12772.2
168-1605	O	54	0.75	63.17	312.9	67.24	76.14	85.03	20	0.472	9.2	8449.2	1303.9	1564.7	1695	1342.7	1626.4	1815.5	2874.5
		1371.6	19.05	1604.6	16824.3	328.3	371.73	415.16	3413	12	233	1153807.8	5800	6959.9	7539.9	5972.6	7234.4	8075.6	12786.4
168-1370	O	50	0.75	53.94	313.2	71.77	81.06	90.34	20	0.472	3.9	7829.5	1304.9	1565.9	1696.4	1343.8	1627.7	1816.9	2876.8
		1270	19.05	1370	16837.6	350.43	395.75	441.06	3413	12	100	1069189.8	5804.6	6965.5	7545.9	5977.4	7240.2	8082.1	12796.6
169-1218	O	44	0.875	47.94	313.7	82.46	93.12	103.78	20	0.472	3.9	6901.5	1307.1	1568.5	1699.2	1346	1630.4	1820	2881.6
		1117.6	22.225	1217.6	16865.8	402.63	454.65	506.68	3413	12	100	942460.6	5814.3	6977.1	7558.6	5987.4	7252.3	8095.6	12818
169-1824	O	60	0.688	71.81	313.8	60.84	68.98	77.11	20	0.472	11.8	9415	1307.6	1569.2	1699.9	1346.6	1631.1	1820.7	2882.8
		1524	17.462	1824	16872.7	297.04	336.77	376.51	3413	12	300	1285701.8	5816.7	6980	7561.7	5989.8	7255.3	8098.9	12823.3
169-1472	O	54	0.688	57.94	313.9	66.31	74.89	83.47	20	0.472	3.9	8474.6	1307.8	1569.4	1700.1	1346.7	1631.3	1820.9	2883.2
		1371.6	17.462	1471.6	16874.9	323.77	365.65	407.53	3413	12	100	1157277.8	5817.4	6980.9	7562.6	5990.6	7256.2	8099.9	12824.9
169-1722	O	56	0.75	67.81	314	65.43	74.17	82.91	20	0.472	11.8	8791.8	1308.3	1570	1700.8	1347.3	1631.9	1821.6	2884.3
		1422.4	19.05	1722.4	16881.4	319.44	362.13	404.81	3413	12	300	1200603.8	5819.7	6983.6	7565.5	5992.9	7259	8103.1	12829.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
169-1298	O	44	0.938	51.09	314	83.3	94.17	105.03	20	0.472	7.1	6908.9	1308.5	1570.2	1701.1	1347.5	1632.1	1821.9	2884.7
		1117.6	23.812	1297.6	16883.9	406.7	459.76	512.82	3413	12	180	943472.6	5820.5	6984.6	7566.7	5993.8	7260.1	8104.3	12831.8
169-1283	O	42.5	1	50.49	314.1	87.04	98.48	109.91	20	0.472	8	6674.4	1308.7	1570.5	1701.3	1347.7	1632.4	1822.2	2885.1
		1079.5	25.4	1282.5	16886.6	424.95	480.8	536.64	3413	12	203	911451.9	5821.4	6985.7	7567.9	5994.7	7261.2	8105.5	12833.8
169-1473	O	50	0.812	57.99	314.4	73.06	82.68	92.3	20	0.472	8	7859.2	1309.9	1571.8	1702.8	1348.9	1633.8	1823.8	2887.7
		1270	20.638	1473	16901.5	356.73	403.69	450.66	3413	12	203	1073245.1	5826.6	6991.9	7574.6	6000	7267.6	8112.7	12845.1
169-1452	O	48	0.875	57.17	314.6	76.63	86.75	96.87	20	0.472	9.2	7550.2	1310.8	1573	1704	1349.8	1635	1825.1	2889.8
		1219.2	22.225	1452.2	16913.5	374.12	423.53	472.94	3413	12	233	1031049.4	5830.7	6996.9	7580	6004.3	7272.8	8118.5	12854.3
169-1512	O	49	0.875	59.51	315	75.45	85.47	95.49	20	0.472	10.5	7716.8	1312.4	1574.9	1706.1	1351.5	1637	1827.3	2893.3
		1244.6	22.225	1511.6	16934	368.37	417.29	466.21	3413	12	267	1053802.5	5837.8	7005.3	7589.1	6011.6	7281.6	8128.3	12869.8
169-1247	O	42	1	49.09	315.3	88.01	99.48	110.96	20	0.472	7.1	6620.5	1313.6	1576.3	1707.7	1352.7	1638.5	1829	2895.9
		1066.8	25.4	1246.8	16949.4	429.69	485.72	541.74	3413	12	180	904082	5843.1	7011.7	7596	6017	7288.2	8135.7	12881.6
169-1247	O	42	1	49.09	315.3	88.01	99.48	110.96	20	0.472	7.1	6620.5	1313.6	1576.3	1707.7	1352.7	1638.5	1829	2895.9
		1066.8	25.4	1246.8	16949.4	429.69	485.72	541.74	3413	12	180	904082.5	5843.1	7011.7	7596	6017	7288.3	8135.7	12881.6
170-1372	O	44	1	54.02	315.4	84.64	95.83	107.02	20	0.472	10	6939.5	1314.3	1577.2	1708.6	1353.4	1639.4	1830	2897.5
		1117.6	25.4	1372.1	16958.7	413.23	467.87	522.51	3413	12	254.5	947649.6	5846.3	7015.5	7600.2	6020.3	7292.2	8140.2	12888.6
170-1588	O	52	0.812	62.51	316	70.97	80.41	89.84	20	0.472	10.5	8216.8	1316.8	1580.2	1711.8	1356	1642.5	1833.5	2903
		1320.8	20.638	1587.8	16990.9	346.53	392.58	438.63	3413	12	267	1122080.9	5857.4	7028.9	7614.6	6031.8	7306.1	8155.6	12913.1
170-1570	O	50	0.875	61.81	316.4	74.35	84.26	94.17	20	0.472	11.8	7911	1318.5	1582.2	1714	1357.7	1644.6	1835.8	2906.7
		1270	22.225	1570	17012.8	362.99	411.39	459.79	3413	12	300	1080312.1	5865	7037.9	7624.4	6039.5	7315.5	8166.1	12929.7
171-1167	O	42	0.938	45.94	317.2	87.76	99.09	110.42	20	0.472	3.9	6662.1	1321.8	1586.2	1718.4	1361.2	1648.8	1840.5	2914.1
		1066.8	23.812	1166.8	17056.1	428.47	483.8	539.13	3413	12	100	909770.3	5879.9	7055.8	7643.8	6054.9	7334.1	8186.9	12962.6
171-1499	O	49	0.875	59.02	317.6	75.92	85.97	96.02	20	0.472	10	7781.2	1323.3	1588	1720.3	1362.7	1650.6	1842.6	2917.4
		1244.6	22.225	1499.1	17075.2	370.66	419.73	468.79	3413	12	254.5	1062589.4	5886.5	7063.8	7652.4	6061.7	7342.3	8196.1	12977.1
171-1116	O	40	1	43.94	318.3	92.93	104.92	116.92	20	0.472	3.9	6366.3	1326.3	1591.6	1724.2	1365.8	1654.4	1846.7	2924
		1016	25.4	1116	17113.8	453.72	512.29	570.85	3413	12	100	869379.9	5899.8	7079.7	7669.7	6075.4	7358.9	8214.6	13006.5
171-1116	O	40	1	43.94	318.3	92.93	104.92	116.92	20	0.472	3.9	6366.3	1326.3	1591.6	1724.2	1365.8	1654.4	1846.7	2924
		1016	25.4	1116	17113.8	453.72	512.29	570.85	3413	12	100	869380.3	5899.8	7079.7	7669.7	6075.4	7358.9	8214.6	13006.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
171-1575	O	52	0.812	62.02	318.5	71.39	80.84	90.3	20	0.472	10	8282	1327.2	1592.7	1725.4	1366.8	1655.5	1848	2926
		1320.8	20.638	1575.3	17125.8	348.53	394.7	440.87	3413	12	254.5	1130984.6	5903.9	7084.7	7675.1	6079.6	7364.1	8220.4	13015.6
171-1575	O	54	0.75	61.99	318.9	68.3	77.3	86.29	20	0.472	8	8610.1	1328.7	1594.5	1727.3	1368.3	1657.4	1850.1	2929.3
		1371.6	19.05	1574.6	17144.8	333.49	377.4	421.3	3413	12	203	1175790.7	5910.5	7092.5	7683.6	6086.4	7372.3	8229.5	13030.1
172-1450	O	50	0.812	57.09	319.4	73.81	83.45	93.08	20	0.472	7.1	7983.9	1330.6	1596.8	1729.8	1370.3	1659.7	1852.7	2933.5
		1270	20.638	1450	17169.6	360.38	407.43	454.47	3413	12	180	1090269	5919	7102.8	7694.7	6095.2	7382.9	8241.4	13048.9
172-1791	O	60	0.688	70.51	319.6	61.74	69.95	78.17	20	0.472	10.5	9588.5	1331.7	1598.1	1731.3	1371.4	1661.1	1854.3	2935.9
		1524	17.462	1791	17183.6	301.44	341.54	381.64	3413	12	267	1309391.4	5923.8	7108.6	7701	6100.2	7389	8248.1	13059.5
172-1260	O	42.5	1	49.59	319.8	88.15	99.64	111.13	20	0.472	7.1	6796.3	1332.6	1599.1	1732.4	1372.3	1662.2	1855.5	2937.8
		1079.5	25.4	1259.5	17194.9	430.41	486.5	542.6	3413	12	180	928096.1	5927.7	7113.3	7706.1	6104.2	7393.8	8253.6	13068.1
172-1689	O	56	0.75	66.51	320.1	66.47	75.31	84.14	20	0.472	10.5	8963.6	1333.9	1600.6	1734	1373.6	1663.8	1857.2	2940.6
		1422.4	19.05	1689.4	17211.1	324.54	367.68	410.81	3413	12	267	1224055.9	5933.3	7120	7713.3	6110	7400.8	8261.3	13080.5
172-1351	O	44	1	53.17	320.5	85.8	97.11	108.41	20	0.472	9.2	7050	1335.2	1602.3	1735.8	1375	1665.5	1859.1	2943.6
		1117.6	25.4	1350.6	17228.6	418.9	474.11	529.32	3413	12	233	962735.1	5939.4	7127.2	7721.2	6116.2	7408.3	8269.7	13093.7
173-1519	O	48	0.938	59.81	320.9	78.78	89.27	99.76	20	0.472	11.8	7702.4	1337.2	1604.7	1738.4	1377	1668	1861.9	2948
		1219.2	23.812	1519.2	17254.5	384.65	435.86	487.06	3413	12	300	1051836.5	5948.3	7137.9	7732.8	6125.4	7419.5	8282.2	13113.4
173-1422	O	48	0.875	55.99	321.2	78	88.25	98.51	20	0.472	8	7709.5	1338.5	1606.1	1740	1378.3	1669.5	1863.6	2950.7
		1219.2	22.225	1422.2	17270.3	380.84	430.9	480.96	3413	12	203	1052798.5	5953.7	7144.5	7739.8	6131	7426.2	8289.8	13125.4
173-1624	O	60	0.625	63.94	321.4	60.82	68.69	76.55	20	0.472	3.9	9643.3	1339.4	1607.2	1741.2	1379.2	1670.6	1864.9	2952.7
		1524	15.875	1624	17281.9	296.97	335.37	373.76	3413	12	100	1316884.2	5957.7	7149.3	7745.1	6135.1	7431.2	8295.3	13134.3
173-1334	O	50	0.75	52.52	321.6	73.51	82.97	92.44	20	0.472	2.5	8040.8	1340.1	1608.2	1742.2	1380	1671.6	1866	2954.4
		1270	19.05	1334	17292	358.91	405.12	451.33	3413	12	64	1098043.5	5961.2	7153.5	7749.6	6138.7	7435.6	8300.2	13141.9
173-1436	O	54	0.688	56.52	321.7	67.79	76.52	85.25	20	0.472	2.5	8687.1	1340.6	1608.7	1742.8	1380.5	1672.2	1866.6	2955.5
		1371.6	17.462	1435.6	17298	330.98	373.6	416.22	3413	12	64	1186298.4	5963.3	7155.9	7752.3	6140.8	7438.1	8303.1	13146.5
173-1779	O	60	0.688	70.02	321.9	62.04	70.26	78.49	20	0.472	10	9655.9	1341.1	1609.3	1743.4	1381	1672.8	1867.3	2956.5
		1524	17.462	1778.5	17304.4	302.9	343.06	383.23	3413	12	254.5	1318594.3	5965.5	7158.6	7755.1	6143.1	7440.9	8306.1	13151.3
173-1478	O	49	0.875	58.17	322.2	76.85	86.99	97.13	20	0.472	9.2	7894.4	1342.6	1611.1	1745.4	1382.6	1674.6	1869.4	2959.8
		1244.6	22.225	1477.6	17323.7	375.23	424.73	474.23	3413	12	233	1078050.8	5972.1	7166.5	7763.7	6149.9	7449.2	8315.4	13166

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
173-1677	O	56	0.75	66.02	322.5	66.82	75.68	84.53	20	0.472	10	9030.4	1343.8	1612.6	1747	1383.8	1676.2	1871.1	2962.5
		1422.4	19.05	1676.9	17339.4	326.26	369.49	412.71	3413	12	254.5	1233180.3	5977.6	7173.1	7770.8	6155.5	7456	8322.9	13178
174-1319	O	48	0.812	51.94	322.8	77.31	87.29	97.28	20	0.472	3.9	7748.1	1345.2	1614.2	1748.7	1385.2	1677.8	1872.9	2965.5
		1219.2	20.638	1319.2	17356.8	377.46	426.21	474.96	3413	12	100	1058073.1	5983.6	7180.3	7778.6	6161.7	7463.4	8331.3	13191.2
174-1554	O	52	0.812	61.17	322.9	72.21	81.74	91.28	20	0.472	9.2	8396.6	1345.6	1614.7	1749.3	1385.7	1678.4	1873.6	2966.5
		1320.8	20.638	1553.8	17362.7	352.57	399.11	445.66	3413	12	233	1146634.1	5985.6	7182.7	7781.3	6163.8	7466	8334.1	13195.7
174-1537	O	50	0.875	60.51	323.2	75.69	85.72	95.76	20	0.472	10.5	8080.8	1346.8	1616.2	1750.8	1386.9	1679.9	1875.2	2969.1
		1270	22.225	1537	17378.1	369.53	418.54	467.56	3413	12	267	1103506.8	5990.9	7189	7788.1	6169.2	7472.6	8341.5	13207.3
174-1182	O	44	0.875	46.52	323.3	84.75	95.65	106.56	20	0.472	2.5	7111.8	1346.9	1616.3	1751	1387	1680.1	1875.4	2969.4
		1117.6	22.225	1181.6	17379.6	413.78	467.02	520.27	3413	12	64	971174.7	5991.4	7189.7	7788.8	6169.8	7473.2	8342.2	13208.5
174-1552	O	54	0.75	61.09	323.6	68.93	77.93	86.93	20	0.472	7.1	8737.8	1348.4	1618.1	1752.9	1388.6	1681.9	1877.5	2972.7
		1371.6	19.05	1551.6	17398.9	336.56	380.49	424.43	3413	12	180	1193219.9	5998.1	7197.7	7797.5	6176.6	7481.5	8351.5	13223.2
174-1595	O	51	0.875	62.81	324	74.59	84.53	94.46	20	0.472	11.8	8261.2	1349.9	1619.8	1754.8	1390.1	1683.7	1879.5	2975.9
		1295.4	22.225	1595.4	17417.7	364.19	412.69	461.19	3413	12	300	1128145.7	6004.5	7205.4	7805.9	6183.3	7489.6	8360.5	13237.5
174-1672	O	54	0.812	65.81	324.3	70.19	79.54	88.9	20	0.472	11.8	8755.8	1351.2	1621.4	1756.6	1391.4	1685.4	1881.4	2978.8
		1371.6	20.638	1671.6	17434.8	342.69	388.36	434.03	3413	12	300	1195680.8	6010.4	7212.5	7813.6	6189.4	7497	8368.7	13250.5
175-1757	O	60	0.688	69.17	325.8	62.65	70.93	79.21	20	0.472	9.2	9774	1357.5	1629	1764.8	1397.9	1693.2	1890.1	2992.7
		1524	17.462	1757	17516.1	305.91	346.33	386.76	3413	12	233	1334729.7	6038.5	7246.2	7850	6218.2	7531.9	8407.7	13312.3
175-1525	O	50	0.875	60.02	325.9	76.15	86.22	96.29	20	0.472	10	8147.1	1357.8	1629.4	1765.2	1398.3	1693.7	1890.6	2993.5
		1270	22.225	1524.5	17520.6	371.79	420.95	470.11	3413	12	254.5	1112554.9	6040	7248	7852	6219.8	7533.8	8409.9	13315.6
176-1399	O	48	0.875	55.09	326.5	78.86	89.14	99.42	20	0.472	7.1	7836.2	1360.5	1632.5	1768.6	1401	1696.9	1894.2	2999.2
		1219.2	22.225	1399.2	17554.2	385.02	435.21	485.4	3413	12	180	1070104.3	6051.6	7261.9	7867.1	6231.7	7548.3	8426	13341.2
176-1655	O	56	0.75	65.17	326.7	67.54	76.46	85.38	20	0.472	9.2	9147.7	1361.3	1633.5	1769.6	1401.8	1697.9	1895.4	3001
		1422.4	19.05	1655.4	17564.6	329.76	373.3	416.84	3413	12	233	1249196.6	6055.2	7266.2	7871.7	6235.4	7552.8	8431	13349.1
176-1522	O	56	0.688	59.94	326.7	66.46	75.04	83.63	20	0.472	3.9	9148.6	1361.4	1633.7	1769.8	1401.9	1698.1	1895.6	3001.3
		1422.4	17.462	1522.4	17566.4	324.47	366.38	408.3	3413	12	100	1249323.4	6055.8	7267	7872.5	6236.1	7553.6	8431.9	13350.5
176-1421	O	52	0.75	55.94	327.2	71.96	81.25	90.55	20	0.472	3.9	8507	1363.3	1636	1772.3	1403.9	1700.5	1898.2	3005.5
		1320.8	19.05	1420.8	17591	351.34	396.72	442.09	3413	12	100	1161711.7	6064.3	7277.1	7883.6	6244.8	7564.1	8443.7	13369.2

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
176-1131	O	42	0.938	44.52	327.3	90.31	101.93	113.54	20	0.472	2.5	6874.2	1363.9	1636.7	1773.1	1404.5	1701.3	1899.1	3006.9
		1066.8	23.812	1130.8	17599.1	440.94	497.65	554.36	3413	12	64	938733.6	6067.1	7280.5	7887.2	6247.7	7567.6	8447.5	13375.3
176-1321	O	44	1	51.99	327.7	87.49	98.97	110.44	20	0.472	8	7210.1	1365.6	1638.7	1775.2	1406.2	1703.3	1901.3	3010.5
		1117.6	25.4	1320.6	17620	427.15	483.19	539.23	3413	12	203	984605.5	6074.3	7289.1	7896.6	6255.1	7576.6	8457.6	13391.2
176-1486	O	48	0.938	58.51	328.1	80.27	90.9	101.53	20	0.472	10.5	7873.5	1366.9	1640.3	1777	1407.6	1705	1903.2	3013.5
		1219.2	23.812	1486.2	17637.7	391.9	443.8	495.71	3413	12	267	1075191.8	6080.4	7296.4	7904.5	6261.4	7584.2	8466.1	13404.6
177-1588	O	60	0.625	62.52	328.7	62.03	70.02	78.01	20	0.472	2.5	9862	1369.7	1643.7	1780.6	1410.5	1708.5	1907.1	3019.6
		1524	15.875	1588	17673.7	302.88	341.87	380.86	3413	12	64	1346738	6092.8	7311.4	7920.6	6274.2	7599.7	8483.4	13432
177-1448	O	49	0.875	56.99	328.9	78.21	88.48	98.75	20	0.472	8	8058	1370.4	1644.5	1781.5	1411.2	1709.3	1908.1	3021.2
		1244.6	22.225	1447.6	17682.7	381.85	431.99	482.14	3413	12	203	1100392.3	6095.9	7315.1	7924.6	6277.3	7603.5	8487.7	13438.8
177-1080	O	40	1	42.52	328.9	95.78	108.09	120.4	20	0.472	2.5	6578.5	1370.5	1644.6	1781.7	1411.3	1709.5	1908.3	3021.4
		1016	25.4	1080	17684.2	467.62	527.74	587.86	3413	12	64	898359.3	6096.4	7315.7	7925.4	6277.9	7604.2	8488.4	13440
177-1080	O	40	1	42.52	328.9	95.78	108.09	120.4	20	0.472	2.5	6578.6	1370.5	1644.6	1781.7	1411.3	1709.5	1908.3	3021.4
		1016	25.4	1080	17684.2	467.62	527.74	587.86	3413	12	64	898359.7	6096.4	7315.7	7925.4	6277.9	7604.2	8488.4	13440
177-1524	O	52	0.812	59.99	329.3	73.41	83.05	92.7	20	0.472	8	8561.9	1372.1	1646.5	1783.7	1413	1711.5	1910.5	3024.9
		1320.8	20.638	1523.8	17704.6	358.41	405.51	452.6	3413	12	203	1169208.6	6103.4	7324.1	7934.5	6285.1	7613	8498.2	13455.5
178-1503	O	50	0.875	59.17	330.5	77.07	87.23	97.39	20	0.472	9.2	8263.6	1377.3	1652.7	1790.4	1418.3	1717.9	1917.7	3036.3
		1270	22.225	1503	17771.2	376.29	425.89	475.48	3413	12	233	1128469.7	6126.4	7351.7	7964.3	6308.8	7641.6	8530.2	13506.1
178-1562	O	51	0.875	61.51	330.8	75.92	85.97	96.03	20	0.472	10.5	8435.7	1378.4	1654.1	1791.9	1419.4	1719.3	1919.2	3038.8
		1295.4	22.225	1562.4	17785.6	370.65	419.76	468.87	3413	12	267	1151973.6	6131.4	7357.6	7970.8	6313.9	7647.8	8537.1	13517.1
178-1639	O	54	0.812	64.51	330.8	71.36	80.82	90.28	20	0.472	10.5	8932.1	1378.4	1654.1	1791.9	1419.4	1719.3	1919.3	3038.8
		1371.6	20.638	1638.6	17786	348.41	394.61	440.81	3413	12	267	1219760.8	6131.5	7357.8	7970.9	6314	7648	8537.3	13517.3
178-1474	O	48	0.938	58.02	330.8	80.78	91.45	102.12	20	0.472	10	7940.3	1378.5	1654.2	1792.1	1419.6	1719.5	1919.4	3039
		1219.2	23.812	1473.7	17787.3	394.42	446.51	498.59	3413	12	254.5	1084311.6	6131.9	7358.3	7971.5	6314.5	7648.5	8537.9	13518.3
178-1727	O	60	0.688	67.99	331.5	63.54	71.9	80.26	20	0.472	8	9943.8	1381.1	1657.3	1795.4	1422.2	1722.7	1923	3044.7
		1524	17.462	1727	17820.4	310.25	351.06	391.86	3413	12	203	1357915.5	6143.4	7372	7986.4	6326.2	7662.8	8553.8	13543.5
178-1283	O	48	0.812	50.52	331.9	79.27	89.46	99.66	20	0.472	2.5	7965.5	1382.9	1659.5	1797.8	1424.1	1724.9	1925.5	3048.7
		1219.2	20.638	1283.2	17843.8	387.02	436.8	486.58	3413	12	64	1087757.2	6151.4	7381.7	7996.9	6334.5	7672.8	8565	13561.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
179-1621	O	52	0.875	63.81	332.2	74.83	84.78	94.74	20	0.472	11.8	8637.3	1384.2	1661	1799.4	1425.4	1726.5	1927.3	3051.5
		1320.8	22.225	1620.8	17860.4	365.36	413.96	462.55	3413	12	300	1179503.9	6157.2	7388.6	8004.3	6340.5	7680	8573	13573.9
179-1625	O	56	0.75	63.99	332.7	68.58	77.59	86.6	20	0.472	8	9316.5	1386.4	1663.7	1802.3	1427.7	1729.3	1930.4	3056.4
		1422.4	19.05	1625.4	17888.8	334.82	378.82	422.82	3413	12	203	1272253	6167	7400.3	8017	6350.5	7692.2	8586.6	13595.5
179-1626	O	54	0.812	64.02	333.4	71.76	81.25	90.73	20	0.472	10	9000.8	1389	1666.8	1805.7	1430.4	1732.5	1934	3062.2
		1371.6	20.638	1626.1	17922.7	350.37	396.68	443	3413	12	254.5	1229137.2	6178.6	7414.3	8032.2	6362.6	7706.8	8602.9	13621.2
179-1550	O	51	0.875	61.02	333.5	76.37	86.46	96.55	20	0.472	10	8503.8	1389.5	1667.4	1806.4	1430.9	1733.2	1934.7	3063.3
		1295.4	22.225	1549.9	17929	372.88	422.14	471.39	3413	12	254.5	1161264.3	6180.8	7417	8035.1	6364.8	7709.5	8605.9	13626.1
179-1298	O	44	1	51.09	333.5	88.58	100.11	111.64	20	0.472	7.1	7337.9	1389.8	1667.7	1806.7	1431.1	1733.5	1935	3063.8
		1117.6	25.4	1297.6	17932.3	432.48	488.77	545.06	3413	12	180	1002057.6	6181.9	7418.3	8036.5	6366	7710.9	8607.5	13628.6
180-1425	O	49	0.875	56.09	334.2	79.05	89.35	99.65	20	0.472	7.1	8188.1	1392.5	1671	1810.3	1434	1736.9	1938.9	3069.9
		1244.6	22.225	1424.6	17968.1	385.97	436.25	486.52	3413	12	180	1118158	6194.3	7433.2	8052.6	6378.7	7726.3	8624.7	13655.8
180-1501	O	52	0.812	59.09	334.4	74.14	83.8	93.46	20	0.472	7.1	8693.2	1393.1	1671.8	1811.1	1434.6	1737.7	1939.7	3071.3
		1320.8	20.638	1500.8	17975.9	361.97	409.14	456.31	3413	12	180	1187126.9	6197	7436.4	8056.1	6381.4	7729.6	8628.4	13661.7
180-1486	O	56	0.688	58.52	334.6	67.88	76.62	85.35	20	0.472	2.5	9370.2	1394.4	1673.2	1812.7	1435.9	1739.2	1941.5	3074
		1422.4	17.462	1486.4	17991.9	331.44	374.08	416.72	3413	12	64	1279581.5	6202.5	7443	8063.2	6387.1	7736.5	8636.1	13673.8
180-1218	O	44	0.938	47.94	334.7	88.11	99.47	110.83	20	0.472	3.9	7362.8	1394.5	1673.4	1812.8	1436	1739.4	1941.6	3074.2
		1117.6	23.812	1217.6	17993.2	430.19	485.66	541.14	3413	12	100	1005461.6	6202.9	7443.5	8063.8	6387.6	7737.1	8636.7	13674.9
180-1385	O	52	0.75	54.52	335.7	73.64	83.11	92.58	20	0.472	2.5	8728.2	1398.7	1678.5	1818.4	1440.4	1744.7	1947.6	3083.6
		1320.8	19.05	1384.8	18048.3	359.53	405.77	452	3413	12	64	1191912.2	6221.9	7466.3	8088.5	6407.2	7760.8	8663.2	13716.7
181-1452	O	48	0.938	57.17	335.7	81.81	92.58	103.34	20	0.472	9.2	8057.8	1398.9	1678.7	1818.6	1440.6	1744.9	1947.8	3084
		1219.2	23.812	1452.2	18050.6	399.42	451.99	504.57	3413	12	233	1100365	6222.7	7467.3	8089.5	6408	7761.8	8664.3	13718.5
181-1704	O	60	0.688	67.09	335.9	64.05	72.41	80.76	20	0.472	7.1	10078	1399.7	1679.7	1819.6	1441.4	1745.9	1948.9	3085.8
		1524	17.462	1704	18060.9	312.73	353.52	394.31	3413	12	180	1376244.1	6226.3	7471.5	8094.2	6411.6	7766.2	8669.3	13726.3
181-1167	O	42	1	45.94	336.9	93.35	105.38	117.42	20	0.472	3.9	7074.4	1403.6	1684.4	1824.7	1445.4	1750.8	1954.4	3094.4
		1066.8	25.4	1166.8	18111.5	455.78	514.53	573.27	3413	12	100	966069.1	6243.7	7492.5	8116.8	6429.6	7788	8693.5	13764.8
181-1167	O	42	1	45.94	336.9	93.35	105.38	117.42	20	0.472	3.9	7074.4	1403.6	1684.4	1824.7	1445.4	1750.8	1954.4	3094.4
		1066.8	25.4	1166.8	18111.5	455.78	514.53	573.27	3413	12	100	966069.6	6243.7	7492.5	8116.9	6429.6	7788	8693.5	13764.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
181-1473	O	50	0.875	57.99	337.3	78.41	88.7	98.98	20	0.472	8	8431.9	1405.3	1686.4	1826.9	1447.2	1752.9	1956.7	3098.1
		1270	22.225	1473	18133.1	382.82	433.05	483.27	3413	12	203	1151452.8	6251.2	7501.4	8126.5	6437.3	7797.2	8703.9	13781.2
181-1602	O	56	0.75	63.09	337.5	69.19	78.21	87.22	20	0.472	7.1	9450.2	1406.3	1687.5	1828.2	1448.1	1754.1	1958.1	3100.3
		1422.4	19.05	1602.4	18145.6	337.81	381.84	425.87	3413	12	180	1290514.2	6255.5	7506.6	8132.1	6441.7	7802.6	8709.9	13790.6
182-1570	O	50	0.938	61.81	337.8	79.35	89.89	100.42	20	0.472	11.8	8444.1	1407.4	1688.8	1829.6	1449.2	1755.4	1959.5	3102.6
		1270	23.812	1570	18159.4	387.41	438.86	490.31	3413	12	300	1153121	6260.2	7512.3	8138.3	6446.6	7808.5	8716.5	13801.1
182-1605	O	54	0.812	63.17	337.8	72.57	82.13	91.69	20	0.472	9.2	9121.4	1407.6	1689.1	1829.9	1449.5	1755.8	1959.9	3103.2
		1371.6	20.638	1604.6	18162.8	354.3	400.98	447.66	3413	12	233	1245606.4	6261.4	7513.7	8139.8	6447.8	7810	8718.2	13803.7
182-1370	O	50	0.812	53.94	338	77.54	87.54	97.54	20	0.472	3.9	8450.1	1408.3	1690	1830.9	1450.3	1756.7	1960.9	3104.8
		1270	20.638	1370	18172.2	378.56	427.39	476.22	3413	12	100	1153934.3	6264.6	7517.6	8144	6451.1	7814	8722.7	13810.9
182-1528	O	51	0.875	60.17	338.2	77.28	87.46	97.63	20	0.472	9.2	8623.4	1409.1	1690.9	1831.8	1451	1757.5	1961.9	3106.4
		1295.4	22.225	1528.4	18181.3	377.33	427.01	476.69	3413	12	233	1177599.8	6267.8	7521.3	8148.1	6454.3	7817.9	8727	13817.8
182-1722	O	56	0.812	67.81	339	70.58	79.96	89.35	20	0.472	11.8	9492.5	1412.6	1695.1	1836.3	1454.6	1761.9	1966.8	3114.1
		1422.4	20.638	1722.4	18226.7	344.59	390.41	436.24	3413	12	300	1296284.3	6283.4	7540.1	8168.5	6470.5	7837.5	8748.8	13852.3
182-1588	O	52	0.875	62.51	339.1	76.14	86.21	96.29	20	0.472	10.5	8816.8	1413	1695.5	1836.8	1455	1762.4	1967.3	3115
		1320.8	22.225	1587.8	18231.6	371.74	420.94	470.14	3413	12	267	1204018.1	6285.1	7542.2	8170.7	6472.2	7839.6	8751.2	13856.1
183-1646	O	53	0.875	64.81	339.7	75.06	85.04	95.01	20	0.472	11.8	9003.2	1415.6	1698.7	1840.3	1457.7	1765.7	1971	3120.8
		1346.2	22.225	1646.2	18265.7	366.49	415.18	463.87	3413	12	300	1229465.4	6296.9	7556.3	8185.9	6484.3	7854.3	8767.5	13881.9
183-1519	O	48	1	59.81	341	83.72	94.83	105.93	20	0.472	11.8	8183.7	1420.8	1704.9	1847	1463.1	1772.2	1978.2	3132.2
		1219.2	25.4	1519.2	18332.6	408.78	463	517.22	3413	12	300	1117555.3	6319.9	7583.9	8215.9	6508.1	7883	8799.6	13932.8
183-1519	O	48	1	59.81	341	83.72	94.83	105.93	20	0.472	11.8	8183.7	1420.8	1704.9	1847	1463.1	1772.2	1978.2	3132.2
		1219.2	25.4	1519.2	18332.6	408.78	463	517.22	3413	12	300	1117557.6	6320	7583.9	8215.9	6508.1	7883	8799.7	13932.8
183-1472	O	54	0.75	57.94	341.2	72.13	81.44	90.74	20	0.472	3.9	9212.8	1421.7	1706.1	1848.2	1464	1773.4	1979.6	3134.3
		1371.6	19.05	1471.6	18344.8	352.19	397.62	443.05	3413	12	100	1258086.4	6324.1	7589	8221.4	6512.4	7888.3	8805.5	13942
183-1824	O	60	0.75	71.81	341.3	66.07	74.86	83.65	20	0.472	11.8	10238.7	1422	1706.5	1848.7	1464.4	1773.8	1980	3135
		1524	19.05	1824	18349	322.59	365.51	408.43	3413	12	300	1398190.8	6325.6	7590.7	8223.3	6513.9	7890.1	8807.5	13945.2
184-1180	O	42.5	1	46.44	341.5	93.45	105.49	117.53	20	0.472	3.9	7257.3	1423	1707.6	1849.9	1465.4	1774.9	1981.3	3137.1
		1079.5	25.4	1179.5	18361.2	456.27	515.06	573.85	3413	12	100	991044.6	6329.8	7595.7	8228.7	6518.2	7895.3	8813.4	13954.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
184-1575	O	52	0.875	62.02	341.8	76.59	86.7	96.8	20	0.472	10	8886.8	1424.2	1709	1851.4	1466.6	1776.4	1983	3139.7
		1320.8	22.225	1575.3	18376.3	373.94	423.29	472.63	3413	12	254.5	1213572	6335	7602	8235.5	6523.6	7901.8	8820.6	13966
184-1450	O	50	0.875	57.09	342.6	79.24	89.55	99.87	20	0.472	7.1	8565.7	1427.6	1713.1	1855.9	1470.1	1780.7	1987.8	3147.3
		1270	22.225	1450	18420.7	386.89	437.24	487.6	3413	12	180	1169717.2	6350.3	7620.4	8255.4	6539.4	7920.9	8842	13999.8
184-1422	O	48	0.938	55.99	342.8	83.29	94.21	105.12	20	0.472	8	8227.8	1428.4	1714.1	1857	1471	1781.7	1988.9	3149.1
		1219.2	23.812	1422.2	18431.4	406.67	459.96	513.25	3413	12	203	1123576.1	6354	7624.8	8260.2	6543.1	7925.5	8847.1	14007.8
185-1575	O	54	0.812	61.99	344.3	73.73	83.4	93.07	20	0.472	8	9295.2	1434.4	1721.3	1864.8	1477.1	1789.2	1997.3	3162.3
		1371.6	20.638	1574.6	18508.9	359.98	407.2	454.42	3413	12	203	1269338.2	6380.7	7656.8	8294.9	6570.6	7958.8	8884.3	14066.7
185-1182	O	44	0.938	46.52	344.9	90.57	102.2	113.83	20	0.472	2.5	7587.2	1437	1724.4	1868.1	1479.7	1792.4	2000.8	3167.9
		1117.6	23.812	1181.6	18541.4	442.18	498.98	555.77	3413	12	64	1036095.1	6391.9	7670.3	8309.5	6582.2	7972.8	8899.9	14091.5
185-1498	O	51	0.875	58.99	344.9	78.6	88.9	99.21	20	0.472	8	8796	1437.3	1724.7	1868.4	1480	1792.7	2001.2	3168.5
		1295.4	22.225	1498.4	18545.3	383.77	434.07	484.37	3413	12	203	1201177	6393.3	7671.9	8311.2	6583.6	7974.5	8901.7	14094.4
185-1537	O	50	0.938	60.51	345	80.79	91.47	102.15	20	0.472	10.5	8625.4	1437.6	1725.1	1868.8	1480.4	1793.1	2001.6	3169.2
		1270	23.812	1537	18549.3	394.47	446.6	498.74	3413	12	267	1177879	6394.6	7673.6	8313	6585	7976.2	8903.7	14097.4
186-1689	O	56	0.812	66.51	345.6	71.72	81.21	90.7	20	0.472	10.5	9677.9	1440.2	1728.2	1872.2	1483	1796.4	2005.2	3175
		1422.4	20.638	1689.4	18582.8	350.17	396.52	442.86	3413	12	267	1321605.3	6406.2	7687.4	8328	6596.9	7990.6	8919.7	14122.9
186-1319	O	48	0.875	51.94	346.3	83.03	93.73	104.43	20	0.472	3.9	8311.4	1443	1731.5	1875.8	1485.9	1799.8	2009.1	3181.1
		1219.2	22.225	1319.2	18618.7	405.39	457.63	509.87	3413	12	100	1134998.5	6418.6	7702.3	8344.2	6609.7	8006.1	8937	14150.2
186-1554	O	52	0.875	61.17	346.5	77.49	87.68	97.87	20	0.472	9.2	9009.8	1443.9	1732.6	1877	1486.9	1801	2010.4	3183.1
		1320.8	22.225	1553.8	18630.6	378.33	428.09	477.86	3413	12	233	1230364.3	6422.7	7707.2	8349.5	6613.9	8011.2	8942.7	14159.2
186-1613	O	53	0.875	63.51	346.7	76.35	86.45	96.54	20	0.472	10.5	9187.4	1444.6	1733.5	1877.9	1487.6	1801.8	2011.3	3184.6
		1346.2	22.225	1613.2	18639.4	372.79	422.08	471.37	3413	12	267	1254615.6	6425.7	7710.8	8353.4	6617	8014.9	8946.9	14165.9
187-1334	O	50	0.812	52.52	347.1	79.43	89.63	99.83	20	0.472	2.5	8678.1	1446.4	1735.6	1880.3	1489.4	1804.1	2013.8	3188.6
		1270	20.638	1334	18662.6	387.79	437.61	487.43	3413	12	64	1185075	6433.7	7720.4	8363.8	6625.2	8024.9	8958	14183.6
187-1791	O	60	0.75	70.51	347.6	67.07	75.95	84.83	20	0.472	10.5	10427.4	1448.2	1737.9	1882.7	1491.4	1806.4	2016.5	3192.8
		1524	19.05	1791	18687	327.45	370.8	414.16	3413	12	267	1423953.1	6442.1	7730.6	8374.8	6633.9	8035.4	8969.8	14202.2
187-1131	O	42	1	44.52	347.6	96.09	108.42	120.76	20	0.472	2.5	7299.6	1448.3	1738	1882.8	1491.4	1806.5	2016.6	3193
		1066.8	25.4	1130.8	18688.1	469.13	529.36	589.59	3413	12	64	996824.7	6442.5	7731	8375.3	6634.3	8035.9	8970.3	14203

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
187-1131	O	42	1	44.52	347.6	96.09	108.42	120.76	20	0.472	2.5	7299.6	1448.3	1738	1882.8	1491.4	1806.5	2016.6	3193
		1066.8	25.4	1130.8	18688.1	469.13	529.36	589.59	3413	12	64	996825.3	6442.5	7731	8375.3	6634.3	8035.9	8970.3	14203
187-1525	O	50	0.938	60.02	347.8	81.3	92.01	102.72	20	0.472	10	8696.2	1449.4	1739.2	1884.2	1492.5	1807.8	2018	3195.2
		1270	23.812	1524.5	18701.4	396.94	449.24	501.55	3413	12	254.5	1187536.9	6447.1	7736.5	8381.2	6639	8041.6	8976.7	14213
187-1672	O	54	0.875	65.81	348	75.29	85.28	95.27	20	0.472	11.8	9396.5	1450.1	1740.1	1885.1	1493.2	1808.7	2019	3196.8
		1371.6	22.225	1671.6	18710.6	367.58	416.37	465.15	3413	12	300	1283171.8	6450.2	7740.3	8385.3	6642.3	8045.6	8981.1	14220
187-1677	O	56	0.812	66.02	348.2	72.11	81.63	91.14	20	0.472	10	9750.1	1450.9	1741.1	1886.2	1494.1	1809.7	2020.2	3198.6
		1422.4	20.638	1676.9	18721.3	352.09	398.54	444.99	3413	12	254.5	1331456.9	6453.9	7744.7	8390.1	6646.1	8050.1	8986.2	14228.2
187-1399	O	48	0.938	55.09	348.5	84.24	95.19	106.14	20	0.472	7.1	8363	1451.9	1742.3	1887.5	1495.1	1811	2021.6	3200.9
		1219.2	23.812	1399.2	18734.3	411.28	464.75	518.23	3413	12	180	1142045.5	6458.4	7750.1	8396	6650.7	8055.8	8992.5	14238.1
187-1486	O	48	1	58.51	348.6	85.32	96.58	107.84	20	0.472	10.5	8365.4	1452.3	1742.8	1888	1495.6	1811.5	2022.2	3201.8
		1219.2	25.4	1486.2	18739.7	416.55	471.54	526.53	3413	12	267	1142369.8	6460.3	7752.3	8398.3	6652.6	8058.1	8995	14242.1
187-1486	O	48	1	58.51	348.6	85.32	96.58	107.84	20	0.472	10.5	8365.4	1452.3	1742.8	1888	1495.6	1811.5	2022.2	3201.8
		1219.2	25.4	1486.2	18739.7	416.55	471.54	526.53	3413	12	267	1142372.2	6460.3	7752.3	8398.4	6652.6	8058.1	8995.1	14242.2
188-1552	O	54	0.812	61.09	349.4	74.44	84.13	93.81	20	0.472	7.1	9433	1455.7	1746.8	1892.4	1499	1815.7	2026.9	3209.2
		1371.6	20.638	1551.6	18783.2	363.45	410.74	458.03	3413	12	180	1288154.2	6475.3	7770.3	8417.9	6668	8076.8	9016	14275.3
188-1601	O	53	0.875	63.02	349.4	76.8	86.92	97.05	20	0.472	10	9259.1	1455.8	1747	1892.6	1499.2	1815.9	2027	3209.5
		1346.2	22.225	1600.7	18784.9	374.97	424.4	473.83	3413	12	254.5	1264413	6475.9	7771	8418.6	6668.6	8077.5	9016.8	14276.5
188-1436	O	54	0.75	56.52	349.8	73.76	83.23	92.71	20	0.472	2.5	9443.8	1457.4	1748.9	1894.6	1500.8	1817.8	2029.2	3212.9
		1371.6	19.05	1435.6	18804.8	360.1	406.37	452.63	3413	12	64	1289635	6482.7	7779.3	8427.6	6675.7	8086.1	9026.3	14291.7
188-1545	O	49	1	60.81	349.9	84.03	95.17	106.3	20	0.472	11.8	8573.8	1458.1	1749.7	1895.6	1501.5	1818.8	2030.2	3214.5
		1244.6	25.4	1544.6	18814.4	410.29	464.65	519.01	3413	12	300	1170822	6486	7783.2	8431.9	6679.1	8090.2	9030.9	14299
188-1779	O	60	0.75	70.02	350	67.4	76.3	85.2	20	0.472	10	10500.7	1458.4	1750.1	1896	1501.8	1819.1	2030.7	3215.2
		1524	19.05	1778.5	18818.4	329.09	372.53	415.97	3413	12	254.5	1433961.2	6487.4	7784.9	8433.6	6680.5	8091.9	9032.8	14302
188-1475	O	51	0.875	58.09	350.3	79.42	89.75	100.08	20	0.472	7.1	8933.2	1459.7	1751.6	1897.6	1503.1	1820.7	2032.4	3217.9
		1295.4	22.225	1475.4	18834.4	387.78	438.21	488.64	3413	12	180	1219902.1	6492.9	7791.5	8440.8	6686.2	8098.8	9040.5	14314.1
189-1474	O	48	1	58.02	351.5	85.88	97.18	108.49	20	0.472	10	8436.4	1464.6	1757.6	1904	1508.2	1826.9	2039.3	3228.9
		1219.2	25.4	1473.7	18898.6	419.29	474.48	529.67	3413	12	254.5	1152059.4	6515.1	7818.1	8469.6	6709	8126.4	9071.3	14362.9

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
189-1474	O	48	1	58.02	351.5	85.88	97.18	108.49	20	0.472	10	8436.4	1464.6	1757.6	1904	1508.2	1826.9	2039.3	3228.9
		1219.2	25.4	1473.7	18898.7	419.29	474.48	529.67	3413	12	254.5	1152061.9	6515.1	7818.1	8469.6	6709	8126.4	9071.4	14363
189-1144	O	42.5	1	45.02	352.3	96.16	108.5	120.84	20	0.472	2.5	7485.7	1467.8	1761.4	1908.1	1511.5	1830.8	2043.7	3235.9
		1079.5	25.4	1143.5	18939.2	469.48	529.74	590	3413	12	64	1022244.9	6529.1	7834.9	8487.8	6723.4	8143.9	9090.8	14393.8
190-1624	O	60	0.688	63.94	352.5	66.71	75.31	83.91	20	0.472	3.9	10574.5	1468.7	1762.4	1909.3	1512.4	1831.9	2044.9	3237.8
		1524	17.462	1624	18950.6	325.72	367.71	409.7	3413	12	100	1444039.4	6533	7839.6	8492.9	6727.5	8148.8	9096.3	14402.5
190-1655	O	56	0.812	65.17	352.7	72.9	82.49	92.07	20	0.472	9.2	9876.7	1469.7	1763.7	1910.7	1513.5	1833.2	2046.4	3240.2
		1422.4	20.638	1655.4	18964.4	355.92	402.73	449.54	3413	12	233	1348749.5	6537.8	7845.3	8499.1	6732.4	8154.7	9102.9	14413
190-1503	O	50	0.938	59.17	352.8	82.3	93.11	103.92	20	0.472	9.2	8820.5	1470.1	1764.1	1911.1	1513.9	1833.7	2046.9	3240.9
		1270	23.812	1503	18968.9	401.8	454.58	507.36	3413	12	233	1204524.3	6539.3	7847.1	8501.1	6734	8156.6	9105.1	14416.4
190-1421	O	52	0.812	55.94	353.2	77.74	87.76	97.78	20	0.472	3.9	9182.6	1471.6	1765.9	1913	1515.4	1835.5	2049	3244.2
		1320.8	20.638	1420.8	18988	379.58	428.49	477.39	3413	12	100	1253969.6	6545.9	7855.1	8509.7	6740.8	8164.9	9114.3	14430.9
190-1524	O	52	0.875	59.99	353.4	78.79	89.11	99.42	20	0.472	8	9187.2	1472.3	1766.8	1914	1516.1	1836.4	2050	3245.8
		1320.8	22.225	1523.8	18997.4	384.68	435.06	485.43	3413	12	203	1254587.2	6549.1	7858.9	8513.8	6744.1	8168.9	9118.7	14438
190-1345	O	49	0.875	52.94	354.1	83.16	93.87	104.58	20	0.472	3.9	8675.3	1475.4	1770.5	1918	1519.3	1840.3	2054.3	3252.6
		1244.6	22.225	1344.6	19037.2	406.01	458.3	510.6	3413	12	100	1184685.3	6562.8	7875.4	8531.7	6758.2	8186	9137.9	14468.3
190-1579	O	53	0.875	62.17	354.2	77.69	87.89	98.1	20	0.472	9.2	9385.2	1475.7	1770.8	1918.4	1519.6	1840.6	2054.6	3253.2
		1346.2	22.225	1579.2	19040.7	379.3	429.14	478.99	3413	12	233	1281627.3	6564	7876.8	8533.2	6759.4	8187.5	9139.5	14470.9
190-1757	O	60	0.75	69.17	354.3	68.09	77.04	86	20	0.472	9.2	10629.2	1476.3	1771.5	1919.2	1520.2	1841.4	2055.5	3254.6
		1524	19.05	1757	19048.7	332.42	376.16	419.9	3413	12	233	1451508.3	6566.8	7880.1	8536.8	6762.3	8190.9	9143.4	14477
191-1621	O	52	0.938	63.81	354.6	79.88	90.46	101.04	20	0.472	11.8	9220.8	1477.7	1773.2	1921	1521.7	1843.2	2057.5	3257.7
		1320.8	23.812	1620.8	19067	389.99	441.67	493.34	3413	12	300	1259186.8	6573.1	7887.7	8545.1	6768.8	8198.8	9152.2	14490.9
191-1639	O	54	0.875	64.51	355	76.56	86.67	96.79	20	0.472	10.5	9585.7	1479.3	1775.1	1923.1	1523.3	1845.1	2059.7	3261.2
		1371.6	22.225	1638.6	19087.4	373.8	423.18	472.55	3413	12	267	1309013.8	6580.2	7896.2	8554.2	6776	8207.6	9162	14506.4
191-1522	O	56	0.75	59.94	355.2	72.3	81.61	90.93	20	0.472	3.9	9946.8	1480.2	1776.2	1924.2	1524.2	1846.3	2061	3263.2
		1422.4	19.05	1522.4	19099.1	352.98	398.46	443.94	3413	12	100	1358329	6584.2	7901	8559.4	6780.2	8212.6	9167.6	14515.3
191-1218	O	44	1	47.94	355.5	93.74	105.8	117.87	20	0.472	3.9	7820	1481.1	1777.3	1925.4	1525.2	1847.4	2062.2	3265.1
		1117.6	25.4	1217.6	19110.5	457.67	516.58	575.49	3413	12	100	1067895.9	6588.1	7905.7	8564.6	6784.2	8217.5	9173	14524

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
191-1697	O	55	0.875	66.81	355.6	75.5	85.51	95.53	20	0.472	11.8	9777.8	1481.5	1777.8	1925.9	1525.6	1847.9	2062.8	3266.1
		1397	22.225	1697	19116	368.64	417.52	466.39	3413	12	300	1335250.7	6590	7908	8567	6786.2	8219.9	9175.7	14528.1
191-1283	O	48	0.875	50.52	356	85.15	96.08	107.01	20	0.472	2.5	8544.6	1483.4	1780.1	1928.5	1527.6	1850.3	2065.5	3270.3
		1219.2	22.225	1283.2	19141.1	415.74	469.1	522.47	3413	12	64	1166840.7	6598.7	7918.4	8578.3	6795.1	8230.7	9187.7	14547.2
192-1452	O	48	1	57.17	356.7	86.98	98.39	109.8	20	0.472	9.2	8561.3	1486.3	1783.6	1932.2	1530.6	1853.9	2069.5	3276.7
		1219.2	25.4	1452.2	19178.4	424.65	480.38	536.11	3413	12	233	1169115.8	6611.5	7933.8	8595	6808.3	8246.7	9205.6	14575.6
192-1452	O	48	1	57.17	356.7	86.98	98.39	109.8	20	0.472	9.2	8561.3	1486.3	1783.6	1932.2	1530.6	1853.9	2069.5	3276.7
		1219.2	25.4	1452.2	19178.4	424.65	480.38	536.11	3413	12	233	1169118.3	6611.5	7933.8	8595	6808.3	8246.7	9205.7	14575.6
192-1512	O	49	1	59.51	357.6	85.61	96.9	108.19	20	0.472	10.5	8760.9	1490	1787.9	1936.9	1534.3	1858.5	2074.6	3284.7
		1244.6	25.4	1511.6	19225.2	417.97	473.09	528.21	3413	12	267	1196382.5	6627.6	7953.2	8615.9	6824.9	8266.8	9228.1	14611.1
192-1626	O	54	0.875	64.02	357.8	77	87.14	97.29	20	0.472	10	9659.4	1490.6	1788.8	1937.8	1535	1859.3	2075.5	3286.2
		1371.6	22.225	1626.1	19234.1	375.96	425.47	474.99	3413	12	254.5	1319076.3	6630.7	7956.9	8619.9	6828.1	8270.7	9232.4	14617.9
193-1501	O	52	0.875	59.09	358.8	79.6	89.94	100.29	20	0.472	7.1	9327.9	1494.9	1793.8	1943.3	1539.4	1864.6	2081.4	3295.5
		1320.8	22.225	1500.8	19288.5	388.64	439.14	489.65	3413	12	180	1273814	6649.5	7979.4	8644.3	6847.4	8294.1	9258.5	14659.3
193-1570	O	50	1	61.81	358.9	84.34	95.5	106.66	20	0.472	11.8	8973.1	1495.5	1794.6	1944.2	1540	1865.4	2082.3	3297
		1270	25.4	1570	19297	411.76	466.26	520.75	3413	12	300	1225361.4	6652.4	7982.9	8648.1	6850.4	8297.7	9262.6	14665.7
193-1570	O	50	1	61.81	358.9	84.34	95.5	106.66	20	0.472	11.8	8973.1	1495.5	1794.6	1944.2	1540	1865.4	2082.3	3297
		1270	25.4	1570	19297.1	411.76	466.26	520.75	3413	12	300	1225363.1	6652.4	7982.9	8648.1	6850.5	8297.7	9262.6	14665.8
193-1625	O	56	0.812	63.99	359.2	74.03	83.73	93.42	20	0.472	8	10059	1496.9	1796.2	1945.9	1541.4	1867.1	2084.2	3300
		1422.4	20.638	1625.4	19314.4	361.46	408.79	456.12	3413	12	203	1373643.4	6658.4	7990.1	8655.9	6856.6	8305.2	9270.9	14679
194-1473	O	50	0.938	57.99	360	83.74	94.69	105.65	20	0.472	8	9000.2	1500	1800	1950	1544.7	1871	2088.6	3306.9
		1270	23.812	1473	19355.2	408.85	462.33	515.8	3413	12	203	1229056.3	6672.5	8007	8674.2	6871.1	8322.7	9290.5	14710
194-1727	O	60	0.75	67.99	360.5	69.07	78.12	87.17	20	0.472	8	10813.8	1501.9	1802.3	1952.5	1546.6	1873.4	2091.2	3311.1
		1524	19.05	1727	19379.6	337.23	381.41	425.58	3413	12	203	1476722.6	6680.9	8017	8685.1	6879.7	8333.2	9302.2	14728.5
194-1588	O	60	0.688	62.52	360.5	68.06	76.79	85.53	20	0.472	2.5	10814.2	1502	1802.4	1952.6	1546.7	1873.4	2091.3	3311.2
		1524	17.462	1588	19380.3	332.28	374.94	417.61	3413	12	64	1476775.8	6681.1	8017.3	8685.4	6880	8333.5	9302.5	14729
194-1499	O	49	1	59.02	360.6	86.16	97.49	108.82	20	0.472	10	8834	1502.4	1802.9	1953.1	1547.1	1874	2091.9	3312.1
		1244.6	25.4	1499.1	19385.5	420.68	475.99	531.31	3413	12	254.5	1206358.3	6682.9	8019.5	8687.8	6881.8	8335.8	9305	14733

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
194-1549	O	53	0.875	60.99	361	78.97	89.3	99.64	20	0.472	8	9566.9	1504.2	1805.1	1955.5	1549	1876.3	2094.4	3316.2
		1346.2	22.225	1549.2	19409.4	385.56	436.01	486.46	3413	12	203	1306445.8	6691.2	8029.4	8698.5	6890.3	8346	9316.5	14751.1
195-1588	O	52	0.938	62.51	362	81.29	92.01	102.73	20	0.472	10.5	9412.5	1508.4	1810.1	1960.9	1553.3	1881.5	2100.3	3325.4
		1320.8	23.812	1587.8	19463.3	396.88	449.22	501.57	3413	12	267	1285357.1	6709.7	8051.7	8722.7	6909.5	8369.2	9342.4	14792.1
195-1385	O	52	0.812	54.52	362.4	79.57	89.78	100	20	0.472	2.5	9421.3	1509.8	1811.8	1962.8	1554.8	1883.2	2102.2	3328.5
		1320.8	20.638	1384.8	19481.7	388.5	438.36	488.22	3413	12	64	1286568.5	6716.1	8059.3	8730.9	6916	8377.1	9351.2	14806.1
195-1605	O	54	0.875	63.17	362.5	77.88	88.1	98.33	20	0.472	9.2	9788.8	1510.6	1812.7	1963.8	1555.6	1884.2	2103.3	3330.3
		1371.6	22.225	1604.6	19491.8	380.23	430.16	480.08	3413	12	233	1336750.6	6719.6	8063.5	8735.4	6919.6	8381.5	9356.1	14813.8
195-1664	O	55	0.875	65.51	362.6	76.76	86.89	97.02	20	0.472	10.5	9971.8	1510.9	1813	1964.1	1555.8	1884.5	2103.7	3330.8
		1397	22.225	1664	19495.1	374.79	424.25	473.71	3413	12	267	1361731	6720.7	8064.8	8736.9	6920.8	8382.9	9357.6	14816.3
195-1370	O	50	0.875	53.94	362.6	83.28	94	104.72	20	0.472	3.9	9065.8	1511	1813.2	1964.3	1556	1884.7	2103.8	3331.1
		1270	22.225	1370	19496.4	406.61	458.95	511.29	3413	12	100	1238021.9	6721.2	8065.4	8737.5	6921.2	8383.5	9358.3	14817.3
196-1309	O	49	0.875	51.52	363.8	85.24	96.18	107.11	20	0.472	2.5	8913.9	1516	1819.2	1970.8	1561.1	1890.9	2110.8	3342.1
		1244.6	22.225	1308.6	19560.9	416.18	469.57	522.97	3413	12	64	1217276.3	6743.4	8092.1	8766.4	6944.1	8411.2	9389.2	14866.3
196-1486	O	56	0.75	58.52	363.8	73.87	83.35	92.83	20	0.472	2.5	10187.7	1516	1819.2	1970.8	1561.2	1891	2110.9	3342.2
		1422.4	19.05	1486.4	19561.7	360.64	406.93	453.22	3413	12	64	1391227.1	6743.7	8092.4	8766.7	6944.4	8411.5	9389.6	14866.9
196-1722	O	56	0.875	67.81	363.9	75.71	85.74	95.77	20	0.472	11.8	10188.3	1516.1	1819.3	1971	1561.3	1891.1	2111	3342.4
		1422.4	22.225	1722.4	19562.8	369.67	418.64	467.6	3413	12	300	1391308.6	6744.1	8092.9	8767.3	6944.8	8412	9390.2	14867.8
196-1422	O	48	1	55.99	364.2	88.57	100.14	111.72	20	0.472	8	8741.9	1517.7	1821.2	1973	1562.9	1893	2113.2	3345.8
		1219.2	25.4	1422.2	19583	432.44	488.95	545.46	3413	12	203	1193777.2	6751	8101.2	8776.3	6952	8420.7	9399.8	14883
196-1422	O	48	1	55.99	364.2	88.57	100.14	111.72	20	0.472	8	8741.9	1517.7	1821.2	1973	1562.9	1893	2113.2	3345.8
		1219.2	25.4	1422.2	19583	432.44	488.95	545.46	3413	12	203	1193779.8	6751	8101.2	8776.3	6952	8420.7	9399.8	14883.1
196-1602	O	56	0.812	63.09	364.4	74.72	84.43	94.14	20	0.472	7.1	10203.4	1518.4	1822	1973.9	1563.6	1893.9	2114.1	3347.3
		1422.4	20.638	1602.4	19591.7	364.83	412.24	459.65	3413	12	180	1393360	6754	8104.8	8780.2	6955	8424.4	9404	14889.7
196-1575	O	52	0.938	62.02	364.9	81.78	92.54	103.29	20	0.472	10	9487.2	1520.4	1824.5	1976.5	1565.6	1896.4	2116.9	3351.8
		1320.8	23.812	1575.3	19617.8	399.29	451.8	504.31	3413	12	254.5	1295556.4	6763	8115.6	8791.9	6964.3	8435.6	9416.5	14909.5
196-1704	O	60	0.75	67.09	365.3	69.65	78.71	87.76	20	0.472	7.1	10959.8	1522.2	1826.6	1978.8	1567.5	1898.7	2119.4	3355.8
		1524	19.05	1704	19641.1	340.08	384.28	428.48	3413	12	180	1496654.9	6771	8125.2	8802.4	6972.6	8445.7	9427.7	14927.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
196-1652	O	55	0.875	65.02	365.4	77.2	87.36	97.52	20	0.472	10	10047.2	1522.3	1826.8	1979	1567.6	1898.8	2119.6	3356
		1397	22.225	1651.5	19642.6	376.92	426.52	476.11	3413	12	254.5	1372037.8	6771.6	8125.9	8803	6973.1	8446.3	9428.5	14928.4
197-1450	O	50	0.938	57.09	365.7	84.66	95.65	106.64	20	0.472	7.1	9143	1523.8	1828.6	1981	1569.2	1900.7	2121.7	3359.4
		1270	23.812	1450	19662.2	413.33	466.99	520.65	3413	12	180	1248551.7	6778.3	8134	8811.8	6980.1	8454.8	9437.9	14943.3
197-1478	O	49	1	58.17	365.8	87.25	98.68	110.12	20	0.472	9.2	8962.5	1524.2	1829.1	1981.5	1569.6	1901.2	2122.3	3360.3
		1244.6	25.4	1477.6	19667.5	425.97	481.82	537.66	3413	12	233	1223911.6	6780.2	8136.2	8814.2	6982	8457	9440.4	14947.3
197-1182	O	44	1	46.52	366.3	96.37	108.72	121.08	20	0.472	2.5	8058.3	1526.2	1831.4	1984	1571.6	1903.7	2125	3364.6
		1117.6	25.4	1181.6	19692.8	470.5	530.84	591.17	3413	12	64	1100431.6	6788.8	8146.6	8825.5	6990.9	8467.9	9452.5	14966.5
197-1526	O	53	0.875	60.09	366.5	79.77	90.13	100.49	20	0.472	7.1	9711.1	1526.9	1832.3	1985	1572.4	1904.5	2126	3366.2
		1346.2	22.225	1526.2	19701.9	389.47	440.04	490.62	3413	12	180	1326134.1	6792	8150.4	8829.6	6994.2	8471.8	9456.9	14973.4
197-1537	O	50	1	60.51	366.6	85.89	97.2	108.52	20	0.472	10.5	9165.8	1527.6	1833.2	1985.9	1573.1	1905.5	2127	3367.8
		1270	25.4	1537	19711.3	419.35	474.59	529.83	3413	12	267	1251670.4	6795.2	8154.3	8833.8	6997.5	8475.9	9461.4	14980.6
197-1537	O	50	1	60.51	366.6	85.89	97.2	108.52	20	0.472	10.5	9165.8	1527.6	1833.2	1985.9	1573.1	1905.5	2127	3367.8
		1270	25.4	1537	19711.4	419.35	474.59	529.83	3413	12	267	1251672.1	6795.3	8154.3	8833.8	6997.5	8475.9	9461.5	14980.6
198-1595	O	51	1	62.81	367.9	84.63	95.81	107	20	0.472	11.8	9381.9	1533	1839.6	1992.9	1578.6	1912.1	2134.5	3379.6
		1295.4	25.4	1595.4	19780.4	413.19	467.81	522.43	3413	12	300	1281176.2	6819.1	8182.9	8864.8	7022	8505.6	9494.6	15033.1
198-1472	O	54	0.812	57.94	368.4	77.94	87.97	98	20	0.472	3.9	9945.8	1534.8	1841.8	1995.3	1580.5	1914.4	2137.1	3383.7
		1371.6	20.638	1471.6	19804.3	380.54	429.51	478.48	3413	12	100	1358181.6	6827.3	8192.8	8875.5	7030.5	8515.9	9506.1	15051.3
198-1824	O	60	0.812	71.81	368.6	71.29	80.73	90.18	20	0.472	11.8	11057.2	1535.7	1842.9	1996.4	1581.4	1915.5	2138.3	3385.6
		1524	20.638	1824	19815.7	348.07	394.18	440.29	3413	12	300	1509956.1	6831.2	8197.5	8880.6	7034.6	8520.7	9511.5	15059.9
199-1575	O	54	0.875	61.99	369.5	79.14	89.49	99.84	20	0.472	8	9975.3	1539.4	1847.3	2001.2	1585.2	1920.1	2143.4	3393.7
		1371.6	22.225	1574.6	19863.2	386.41	436.94	487.46	3413	12	203	1362219	6847.6	8217.1	8901.9	7051.4	8541.2	9534.3	15096
199-1319	O	48	0.938	51.94	369.6	88.73	100.15	111.56	20	0.472	3.9	8870.2	1540	1848	2002	1585.8	1920.8	2144.2	3395
		1219.2	23.812	1319.2	19870.4	433.24	488.96	544.69	3413	12	100	1211302.3	6850.1	8220.1	8905.1	7054	8544.3	9537.8	15101.5
199-1525	O	50	1	60.02	369.6	86.44	97.79	109.15	20	0.472	10	9240.9	1540.2	1848.2	2002.2	1586	1921.1	2144.5	3395.4
		1270	25.4	1524.5	19873	422.02	477.46	532.9	3413	12	254.5	1261933.3	6851	8221.1	8906.2	7054.9	8545.4	9539	15103.5
199-1525	O	50	1	60.02	369.6	86.44	97.79	109.15	20	0.472	10	9241	1540.2	1848.2	2002.2	1586	1921.1	2144.5	3395.4
		1270	25.4	1524.5	19873	422.02	477.46	532.9	3413	12	254.5	1261935.1	6851	8221.2	8906.3	7054.9	8545.4	9539	15103.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
199-1554	O	52	0.938	61.17	369.9	82.75	93.6	104.45	20	0.472	9.2	9618.4	1541.4	1849.7	2003.8	1587.3	1922.6	2146.2	3398.2
		1320.8	23.812	1553.8	19889.2	404.02	457	509.97	3413	12	233	1313483.1	6856.6	8227.9	8913.5	7060.7	8552.4	9546.8	15115.8
199-1630	O	55	0.875	64.17	370.2	78.06	88.3	98.55	20	0.472	9.2	10179.8	1542.4	1850.9	2005.1	1588.3	1923.9	2147.6	3400.3
		1397	22.225	1630	19901.7	381.14	431.14	481.14	3413	12	233	1390135.2	6860.9	8233	8919.1	7065.1	8557.7	9552.8	15125.3
199-1399	O	48	1	55.09	370.2	89.6	101.22	112.85	20	0.472	7.1	8885.5	1542.6	1851.2	2005.4	1588.6	1924.2	2147.9	3400.8
		1219.2	25.4	1399.2	19904.9	437.47	494.22	550.96	3413	12	180	1213400.5	6862	8234.3	8920.5	7066.2	8559.1	9554.3	15127.7
199-1399	O	48	1	55.09	370.2	89.6	101.22	112.85	20	0.472	7.1	8885.6	1542.6	1851.2	2005.4	1588.6	1924.2	2147.9	3400.8
		1219.2	25.4	1399.2	19904.9	437.47	494.22	550.96	3413	12	180	1213403.1	6862	8234.4	8920.6	7066.2	8559.1	9554.4	15127.7
199-1395	O	51	0.875	54.94	370.4	83.4	94.13	104.86	20	0.472	3.9	9445.3	1543.4	1852	2006.4	1589.3	1925.1	2148.9	3402.4
		1295.4	22.225	1395.4	19914.2	407.19	459.58	511.96	3413	12	100	1289840.6	6865.2	8238.2	8924.7	7069.5	8563.1	9558.8	15134.8
199-1689	O	56	0.875	66.51	371	76.96	87.11	97.25	20	0.472	10.5	10387.4	1545.7	1854.9	2009.5	1591.8	1928	2152.2	3407.7
		1422.4	22.225	1689.4	19945	375.75	425.29	474.83	3413	12	267	1418485.9	6875.8	8250.9	8938.5	7080.5	8576.3	9573.6	15158.2
200-1672	O	54	0.938	65.81	371.6	80.37	91	101.63	20	0.472	11.8	10032.6	1548.2	1857.9	2012.7	1594.3	1931.2	2155.7	3413.2
		1371.6	23.812	1671.6	19977.2	392.42	444.31	496.2	3413	12	300	1370034.7	6886.9	8264.3	8953	7091.9	8590.2	9589	15182.7
200-1334	O	50	0.875	52.52	372.4	85.33	96.27	107.21	20	0.472	2.5	9310.5	1551.8	1862.1	2017.3	1597.9	1935.5	2160.6	3420.9
		1270	22.225	1334	20022.5	416.6	470.02	523.45	3413	12	64	1271431.8	6902.5	8283	8973.3	7108	8609.7	9610.8	15217.1
201-1448	O	49	1	56.99	373.4	88.82	100.41	112.01	20	0.472	8	9148.3	1555.8	1867	2022.6	1602.1	1940.6	2166.3	3429.9
		1244.6	25.4	1447.6	20075.1	433.64	490.26	546.88	3413	12	203	1249275.9	6920.7	8304.8	8996.9	7126.7	8632.3	9636.1	15257.1
201-1677	O	56	0.875	66.02	373.7	77.39	87.56	97.74	20	0.472	10	10464.8	1557.3	1868.7	2024.4	1603.6	1942.4	2168.3	3433.1
		1422.4	22.225	1676.9	20093.6	377.85	427.53	477.2	3413	12	254.5	1429059.6	6927	8312.4	9005.1	7133.2	8640.3	9644.9	15271.2
202-1503	O	50	1	59.17	374.9	87.51	98.97	110.43	20	0.472	9.2	9373.1	1562.2	1874.6	2030.8	1608.7	1948.6	2175.1	3444
		1270	25.4	1503	20157.2	427.24	483.2	539.16	3413	12	233	1279984.9	6949	8338.7	9033.6	7155.8	8667.6	9675.5	15319.5
202-1503	O	50	1	59.17	374.9	87.51	98.97	110.43	20	0.472	9.2	9373.1	1562.2	1874.6	2030.8	1608.7	1948.6	2175.1	3444
		1270	25.4	1503	20157.3	427.24	483.2	539.16	3413	12	233	1279986.7	6949	8338.8	9033.7	7155.8	8667.6	9675.5	15319.5
202-1552	O	54	0.875	61.09	374.9	79.93	90.31	100.68	20	0.472	7.1	10123.2	1562.2	1874.7	2030.9	1608.7	1948.6	2175.2	3444
		1371.6	22.225	1551.6	20157.7	390.27	440.91	491.56	3413	12	180	1382411.7	6949.1	8338.9	9033.8	7156	8667.8	9675.7	15319.8
202-1791	O	60	0.812	70.51	375.4	72.38	81.93	91.47	20	0.472	10.5	11260.9	1564	1876.8	2033.2	1610.6	1950.8	2177.7	3448
		1524	20.638	1791	20180.8	353.41	400.01	446.61	3413	12	267	1537777.8	6957.1	8348.5	9044.2	7164.2	8677.7	9686.8	15337.4

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
202-1562	O	51	1	61.51	375.7	86.16	97.5	108.84	20	0.472	10.5	9580	1565.4	1878.4	2035	1612	1952.5	2179.6	3451
		1295.4	25.4	1562.4	20198.2	420.68	476.04	531.4	3413	12	267	1308236.4	6963.1	8355.7	9052	7170.4	8685.2	9695.1	15350.6
203-1621	O	52	1	63.81	376.9	84.91	96.12	107.34	20	0.472	11.8	9799.9	1570.5	1884.6	2041.6	1617.2	1958.9	2186.7	3462.3
		1320.8	25.4	1620.8	20264.5	414.56	469.31	524.06	3413	12	300	1338265.1	6985.9	8383.1	9081.7	7193.9	8713.7	9726.9	15401
203-1621	O	52	1	63.81	376.9	84.91	96.12	107.34	20	0.472	11.8	9799.9	1570.5	1884.6	2041.7	1617.3	1958.9	2186.7	3462.3
		1320.8	25.4	1620.8	20264.5	414.56	469.31	524.06	3413	12	300	1338267.1	6985.9	8383.1	9081.7	7193.9	8713.7	9727	15401
203-1600	O	55	0.875	62.99	377.1	79.31	89.67	100.04	20	0.472	8	10370.6	1571.3	1885.6	2042.7	1618.1	1959.9	2187.8	3464.1
		1397	22.225	1600	20274.9	387.24	437.83	488.42	3413	12	203	1416200.3	6989.5	8387.4	9086.4	7197.6	8718.2	9731.9	15408.9
203-1524	O	52	0.938	59.99	377.2	84.15	95.14	106.13	20	0.472	8	9807.8	1571.8	1886.1	2043.3	1618.6	1960.5	2188.5	3465.1
		1320.8	23.812	1523.8	20280.8	410.88	464.53	518.19	3413	12	203	1339342.4	6991.6	8389.9	9089	7199.7	8720.7	9734.8	15413.4
203-1436	O	54	0.812	56.52	377.6	79.71	89.93	100.15	20	0.472	2.5	10195.2	1573.3	1888	2045.3	1620.2	1962.5	2190.6	3468.5
		1371.6	20.638	1435.6	20301	389.16	439.06	488.96	3413	12	64	1392240.2	6998.5	8398.2	9098.1	7206.8	8729.4	9744.5	15428.7
203-1779	O	60	0.812	70.02	378	72.76	82.32	91.89	20	0.472	10	11340.1	1575	1890	2047.5	1621.9	1964.5	2193	3472.2
		1524	20.638	1778.5	20322.6	355.23	401.94	448.65	3413	12	254.5	1548585.9	7006	8407.2	9107.8	7214.5	8738.7	9754.9	15445.2
204-1655	O	56	0.875	65.17	378.6	78.24	88.5	98.76	20	0.472	9.2	10600.7	1577.5	1893	2050.7	1624.4	1967.6	2196.4	3477.7
		1422.4	22.225	1655.4	20354.6	382.02	432.09	482.17	3413	12	233	1447619.9	7017	8420.4	9122.1	7225.9	8752.5	9770.2	15469.5
204-1550	O	51	1	61.02	378.7	86.7	98.08	109.46	20	0.472	10	9657.3	1578	1893.6	2051.4	1625	1968.3	2197.1	3478.8
		1295.4	25.4	1549.9	20361.1	423.31	478.87	534.43	3413	12	254.5	1318787.3	7019.2	8423.1	9125	7228.2	8755.3	9773.3	15474.4
204-1421	O	52	0.875	55.94	379	83.51	94.25	104.99	20	0.472	3.9	9853.2	1579	1894.8	2052.7	1626	1969.6	2198.6	3481.1
		1320.8	22.225	1420.8	20374.6	407.75	460.18	512.61	3413	12	100	1345537.7	7023.9	8428.7	9131.1	7233	8761.1	9779.8	15484.7
204-1639	O	54	0.938	64.51	379.1	81.75	92.51	103.27	20	0.472	10.5	10234.6	1579.4	1895.3	2053.2	1626.4	1970	2199.1	3481.9
		1371.6	23.812	1638.6	20379.5	399.14	451.68	504.23	3413	12	267	1397626	7025.6	8430.7	9133.3	7234.7	8763.2	9782.2	15488.4
204-1425	O	49	1	56.09	379.4	89.83	101.48	113.12	20	0.472	7.1	9296	1580.9	1897.1	2055.2	1628	1972	2201.2	3485.3
		1244.6	25.4	1424.6	20399.2	438.6	495.46	552.31	3413	12	180	1269445.3	7032.4	8438.9	9142.1	7241.7	8771.7	9791.6	15503.4
204-1283	O	48	0.938	50.52	380	91.01	102.68	114.34	20	0.472	2.5	9119	1583.2	1899.8	2058.1	1630.3	1974.7	2204.3	3490.2
		1219.2	23.812	1283.2	20427.9	444.37	501.32	558.26	3413	12	64	1245285.2	7042.3	8450.7	9155	7251.9	8784	9805.4	15525.2
204-1359	O	51	0.875	53.52	380.2	85.41	96.36	107.3	20	0.472	2.5	9695.4	1584.2	1901.1	2059.5	1631.4	1976	2205.8	3492.5
		1295.4	22.225	1359.4	20441.5	417.01	470.46	523.91	3413	12	64	1323998.5	7047	8456.4	9161.1	7256.7	8789.9	9811.9	15535.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
205-1626	O	54	0.938	64.02	382	82.23	93.03	103.82	20	0.472	10	10313.3	1591.6	1909.9	2069	1638.9	1985.2	2216	3508.7
		1371.6	23.812	1626.1	20536.2	401.49	454.2	506.9	3413	12	254.5	1408369.7	7079.6	8495.5	9203.5	7290.3	8830.5	9857.4	15607.5
206-1473	O	50	1	57.99	382.6	89.06	100.67	112.29	20	0.472	8	9564	1594	1912.8	2072.2	1641.5	1988.2	2219.4	3514.1
		1270	25.4	1473	20567.8	434.81	491.53	548.25	3413	12	203	1306053.9	7090.5	8508.6	9217.6	7301.6	8844.1	9872.5	15631.5
206-1473	O	50	1	57.99	382.6	89.06	100.67	112.29	20	0.472	8	9564	1594	1912.8	2072.2	1641.5	1988.2	2219.4	3514.1
		1270	25.4	1473	20567.8	434.81	491.53	548.25	3413	12	203	1306055.7	7090.5	8508.6	9217.6	7301.6	8844.2	9872.5	15631.5
206-1577	O	55	0.875	62.09	382.6	80.09	90.48	100.87	20	0.472	7.1	10521.9	1594.2	1913.1	2072.5	1641.7	1988.5	2219.7	3514.6
		1397	22.225	1577	20570.6	391.05	441.76	492.47	3413	12	180	1436855.1	7091.5	8509.7	9218.9	7302.6	8845.3	9873.9	15633.6
206-1757	O	60	0.812	69.17	382.6	73.5	83.14	92.78	20	0.472	9.2	11478.8	1594.3	1913.1	2072.6	1641.7	1988.6	2219.8	3514.7
		1524	20.638	1757	20571.3	358.88	405.93	452.98	3413	12	233	1567535.6	7091.7	8510.1	9219.2	7302.8	8845.7	9874.2	15634.2
206-1501	O	52	0.938	59.09	383	85.05	96.07	107.1	20	0.472	7.1	9958.1	1595.9	1915	2074.6	1643.4	1990.5	2222	3518.2
		1320.8	23.812	1500.8	20591.6	415.24	469.07	522.9	3413	12	180	1359868.1	7098.7	8518.4	9228.3	7310	8854.4	9884	15649.6
206-1624	O	60	0.75	63.94	383.3	72.59	81.92	91.26	20	0.472	3.9	11499.7	1597.2	1916.6	2076.3	1644.7	1992.2	2223.8	3521.1
		1524	19.05	1624	20608.7	354.41	399.98	445.56	3413	12	100	1570381.8	7104.6	8525.5	9236	7316.1	8861.7	9892.2	15662.6
206-1522	O	56	0.812	59.94	383.6	78.12	88.17	98.21	20	0.472	3.9	10739.5	1598.1	1917.8	2077.6	1645.7	1993.4	2225.2	3523.2
		1422.4	20.638	1522.4	20621.2	381.42	430.46	479.5	3413	12	100	1466579.1	7108.9	8530.7	9241.6	7320.5	8867.1	9898.2	15672.1
206-1528	O	51	1	60.17	384	87.76	99.24	110.73	20	0.472	9.2	9793.1	1600.2	1920.2	2080.2	1647.8	1995.9	2228	3527.7
		1295.4	25.4	1528.4	20647.5	428.47	484.54	540.61	3413	12	233	1337338.7	7118	8541.6	9253.4	7329.9	8878.4	9910.8	15692.1
207-1588	O	52	1	62.51	384.8	86.42	97.79	109.15	20	0.472	10.5	10003.6	1603.1	1923.8	2084.1	1650.9	1999.6	2232.2	3534.2
		1320.8	25.4	1587.8	20685.6	421.96	477.44	532.92	3413	12	267	1366078.9	7131.1	8557.3	9270.5	7343.4	8894.8	9929.1	15721.1
207-1588	O	52	1	62.51	384.8	86.42	97.79	109.15	20	0.472	10.5	10003.6	1603.1	1923.8	2084.1	1650.9	1999.6	2232.2	3534.2
		1320.8	25.4	1587.8	20685.7	421.96	477.44	532.92	3413	12	267	1366080.9	7131.1	8557.3	9270.5	7343.4	8894.8	9929.1	15721.1
207-1625	O	56	0.875	63.99	385.6	79.48	89.85	100.23	20	0.472	8	10796.4	1606.6	1927.9	2088.6	1654.4	2004	2237	3541.9
		1422.4	22.225	1625.4	20730.3	388.04	438.7	489.35	3413	12	203	1474338.6	7146.5	8575.8	9290.5	7359.3	8914	9950.5	15755
207-1646	O	53	1	64.81	385.9	85.18	96.42	107.66	20	0.472	11.8	10227.3	1608.1	1929.7	2090.5	1655.9	2005.8	2239	3545.1
		1346.2	25.4	1646.2	20749.3	415.9	470.77	525.64	3413	12	300	1396634.5	7153.1	8583.7	9299	7366	8922.2	9959.7	15769.5
208-1446	O	53	0.875	56.94	386.7	83.63	94.37	105.12	20	0.472	3.9	10248.3	1611.4	1933.6	2094.8	1659.3	2009.9	2243.6	3552.4
		1346.2	22.225	1446.2	20791.7	408.29	460.76	513.23	3413	12	100	1399492.4	7167.7	8601.2	9318	7381.1	8940.5	9980	15801.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
208-1370	O	50	0.938	53.94	387.1	89.01	100.45	111.88	20	0.472	3.9	9676.9	1612.8	1935.4	2096.7	1660.8	2011.7	2245.6	3555.6
		1270	23.812	1370	20810.4	434.6	490.43	546.27	3413	12	100	1321459.9	7174.1	8608.9	9326.4	7387.7	8948.5	9989	15815.9
208-1605	O	54	0.938	63.17	387.1	83.18	94.06	104.95	20	0.472	9.2	10451.5	1612.9	1935.5	2096.7	1660.9	2011.8	2245.7	3555.7
		1371.6	23.812	1604.6	20811.3	406.11	459.26	512.42	3413	12	233	1427240.4	7174.5	8609.3	9326.8	7388	8948.9	9989.4	15816.6
208-1575	O	52	1	62.02	387.8	86.96	98.36	109.76	20	0.472	10	10083	1615.9	1939	2100.6	1664	2015.5	2249.9	3562.3
		1320.8	25.4	1575.3	20849.8	424.57	480.24	535.91	3413	12	254.5	1376918.7	7187.7	8625.2	9344	7401.7	8965.4	10007.9	15845.8
208-1575	O	52	1	62.02	387.8	86.96	98.36	109.76	20	0.472	10	10083	1615.9	1939	2100.6	1664	2015.5	2249.9	3562.3
		1320.8	25.4	1575.3	20849.8	424.57	480.24	535.91	3413	12	254.5	1376920.8	7187.7	8625.2	9344	7401.7	8965.4	10007.9	15845.8
209-1722	O	56	0.938	67.81	388.6	80.84	91.51	102.18	20	0.472	11.8	10879.4	1619	1942.8	2104.7	1667.2	2019.4	2254.2	3569.1
		1422.4	23.812	1722.4	20889.8	394.7	446.79	498.88	3413	12	300	1485682.8	7201.5	8641.8	9362	7415.9	8982.6	10027.1	15876.3
209-1450	O	50	1	57.09	388.6	90.06	101.72	113.39	20	0.472	7.1	9715.7	1619.3	1943.1	2105.1	1667.5	2019.8	2254.6	3569.8
		1270	25.4	1450	20894	439.7	496.65	553.61	3413	12	180	1326770.6	7203	8643.5	9363.8	7417.4	8984.4	10029.1	15879.5
209-1450	O	50	1	57.09	388.6	90.06	101.72	113.39	20	0.472	7.1	9715.8	1619.3	1943.1	2105.1	1667.5	2019.8	2254.6	3569.8
		1270	25.4	1450	20894.1	439.7	496.65	553.61	3413	12	180	1326772.4	7203	8643.6	9363.9	7417.4	8984.4	10029.1	15879.5
209-1385	O	52	0.875	54.52	388.8	85.49	96.44	107.4	20	0.472	2.5	10109.3	1620.1	1944.1	2106.1	1668.3	2020.8	2255.7	3571.6
		1320.8	22.225	1384.8	20904.3	417.41	470.88	524.35	3413	12	64	1380517	7206.5	8647.8	9368.4	7421	8988.8	10034	15887.2
209-1727	O	60	0.812	67.99	389.3	74.58	84.32	94.06	20	0.472	8	11678.2	1622	1946.4	2108.6	1670.3	2023.1	2258.4	3575.8
		1524	20.638	1727	20928.7	364.15	411.69	459.23	3413	12	203	1594765.5	7214.9	8657.9	9379.4	7429.7	8999.3	10045.8	15905.8
210-1602	O	56	0.875	63.09	391.1	80.25	90.65	101.05	20	0.472	7.1	10951.3	1629.7	1955.6	2118.6	1678.2	2032.7	2269.1	3592.7
		1422.4	22.225	1602.4	21027.8	391.8	442.58	493.35	3413	12	180	1495500.5	7249.1	8698.9	9423.8	7464.9	9042	10093.4	15981.2
211-1498	O	51	1	58.99	391.7	89.29	100.92	112.56	20	0.472	8	9989.2	1632.2	1958.7	2121.9	1680.8	2035.9	2272.6	3598.4
		1295.4	25.4	1498.4	21060.9	435.93	492.75	549.58	3413	12	203	1364114.1	7260.5	8712.6	9438.6	7476.6	9056.2	10109.2	16006.3
211-1588	O	60	0.75	62.52	392	74.06	83.55	93.04	20	0.472	2.5	11760.4	1633.4	1960.1	2123.4	1682	2037.4	2274.3	3600.9
		1524	19.05	1588	21075.9	361.61	407.95	454.28	3413	12	64	1605982.4	7265.7	8718.8	9445.3	7481.9	9062.6	10116.4	16017.7
211-1319	O	48	1	51.94	392.7	94.42	106.55	118.67	20	0.472	3.9	9424.4	1636.2	1963.4	2127	1684.9	2040.8	2278.2	3607.1
		1219.2	25.4	1319.2	21112	461.02	520.21	579.41	3413	12	100	1286984.5	7278.1	8733.7	9461.5	7494.7	9078.1	10133.7	16045.1
211-1319	O	48	1	51.94	392.7	94.42	106.55	118.67	20	0.472	3.9	9424.4	1636.2	1963.4	2127	1684.9	2040.9	2278.2	3607.1
		1219.2	25.4	1319.2	21112	461.02	520.21	579.41	3413	12	100	1286987.2	7278.1	8733.7	9461.5	7494.8	9078.2	10133.8	16045.1

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
211-1486	O	56	0.812	58.52	392.8	79.83	90.06	100.29	20	0.472	2.5	10999.6	1636.9	1964.2	2127.9	1685.6	2041.7	2279.1	3608.6
		1422.4	20.638	1486.4	21120.6	389.78	439.71	489.64	3413	12	64	1502099	7281.1	8737.3	9465.4	7497.8	9081.9	10137.9	16051.7
211-1554	O	52	1	61.17	393.2	88	99.51	111.01	20	0.472	9.2	10222.5	1638.2	1965.9	2129.7	1687	2043.4	2281	3611.6
		1320.8	25.4	1553.8	21138.3	429.65	485.83	542.01	3413	12	233	1395971.2	7287.2	8744.6	9473.3	7504.1	9089.5	10146.4	16065.1
211-1554	O	52	1	61.17	393.2	88	99.51	111.01	20	0.472	9.2	10222.5	1638.2	1965.9	2129.7	1687	2043.4	2281	3611.6
		1320.8	25.4	1553.8	21138.3	429.65	485.83	542.01	3413	12	233	1395973.3	7287.2	8744.6	9473.3	7504.1	9089.5	10146.4	16065.1
212-1613	O	53	1	63.51	393.8	86.68	98.07	109.45	20	0.472	10.5	10436.6	1641	1969.2	2133.3	1689.8	2046.8	2284.8	3617.6
		1346.2	25.4	1613.2	21173.7	423.21	478.8	534.39	3413	12	267	1425204.4	7299.4	8759.3	9489.2	7516.7	9104.7	10163.4	16092
212-1575	O	54	0.938	61.99	394.5	84.54	95.57	106.59	20	0.472	8	10650.6	1643.6	1972.3	2136.7	1692.5	2050.1	2288.5	3623.5
		1371.6	23.812	1574.6	21207.8	412.78	466.6	520.41	3413	12	203	1454432.9	7311.1	8773.4	9504.5	7528.8	9119.4	10179.8	16117.9
212-1704	O	60	0.812	67.09	394.5	75.24	84.99	94.75	20	0.472	7.1	11835.9	1643.9	1972.6	2137	1692.8	2050.4	2288.9	3624
		1524	20.638	1704	21211.2	367.36	414.97	462.59	3413	12	180	1616291.1	7312.3	8774.7	9506	7530	9120.8	10181.4	16120.5
212-1672	O	54	1	65.81	395	85.45	96.71	107.97	20	0.472	11.8	10664.1	1645.7	1974.8	2139.4	1694.7	2052.7	2291.4	3628.1
		1371.6	25.4	1671.6	21234.7	417.19	472.18	527.17	3413	12	300	1456279	7320.4	8784.5	9516.5	7538.3	9130.9	10192.7	16138.4
212-1672	O	54	1	65.81	395	85.45	96.71	107.97	20	0.472	11.8	10664.1	1645.7	1974.8	2139.4	1694.7	2052.7	2291.4	3628.1
		1371.6	25.4	1671.6	21234.8	417.19	472.18	527.17	3413	12	300	1456281.4	7320.4	8784.5	9516.6	7538.3	9131	10192.7	16138.4
213-1472	O	54	0.875	57.94	395.3	83.73	94.49	105.24	20	0.472	3.9	10673.5	1647.1	1976.6	2141.3	1696.2	2054.5	2293.4	3631.3
		1371.6	22.225	1471.6	21253.5	408.81	461.32	513.83	3413	12	100	1457563.2	7326.9	8792.2	9524.9	7545	9139	10201.7	16152.6
213-1824	O	60	0.875	71.81	395.7	76.5	86.6	96.69	20	0.472	11.8	11870.4	1648.7	1978.4	2143.3	1697.8	2056.4	2295.5	3634.6
		1524	22.225	1824	21273.2	373.51	422.79	472.08	3413	12	300	1621014.3	7333.7	8800.4	9533.8	7552	9147.5	10211.1	16167.6
213-1689	O	56	0.938	66.51	396.1	82.19	92.99	103.78	20	0.472	10.5	11091.9	1650.6	1980.7	2145.8	1699.7	2058.8	2298.2	3638.8
		1422.4	23.812	1689.4	21297.9	401.27	453.99	506.72	3413	12	267	1514703.4	7342.2	8810.6	9544.8	7560.7	9158.1	10223	16186.4
213-1410	O	53	0.875	55.52	396.6	85.57	96.53	107.48	20	0.472	2.5	10509.9	1652.5	1983	2148.2	1701.7	2061.2	2300.9	3643.1
		1346.2	22.225	1410.2	21322.5	417.79	471.28	524.78	3413	12	64	1435219	7350.7	8820.8	9555.9	7569.5	9168.7	10234.8	16205.1
213-1601	O	53	1	63.02	396.9	87.21	98.63	110.06	20	0.472	10	10518.1	1653.8	1984.5	2149.9	1703	2062.8	2302.7	3645.9
		1346.2	25.4	1600.7	21339.1	425.78	481.57	537.35	3413	12	254.5	1436333.9	7356.4	8827.7	9563.3	7575.4	9175.8	10242.8	16217.7
214-1334	O	50	0.938	52.52	397.5	91.21	102.89	114.57	20	0.472	2.5	9938	1656.3	1987.6	2153.2	1705.6	2066	2306.2	3651.5
		1270	23.812	1334	21372	445.34	502.35	559.37	3413	12	64	1357121.4	7367.7	8841.3	9578.1	7587.1	9190	10258.6	16242.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
214-1475	O	51	1	58.09	397.8	90.27	101.96	113.64	20	0.472	7.1	10144.9	1657.7	1989.2	2155	1707	2067.6	2308.1	3654.4
		1295.4	25.4	1475.4	21389.2	440.76	497.81	554.86	3413	12	180	1385379.2	7373.7	8848.4	9585.8	7593.2	9197.4	10266.8	16255.8
215-1677	O	56	0.938	66.02	399.1	82.66	93.49	104.32	20	0.472	10	11174.6	1662.9	1995.5	2161.8	1712.4	2074.2	2315.3	3666
		1422.4	23.812	1676.9	21456.6	403.56	456.45	509.34	3413	12	254.5	1525994.4	7396.9	8876.3	9616	7617.1	9226.3	10299.2	16307
215-1552	O	54	0.938	61.09	400.3	85.41	96.47	107.53	20	0.472	7.1	10808.5	1668	2001.6	2168.4	1717.6	2080.5	2322.4	3677.2
		1371.6	23.812	1551.6	21522.2	417.03	471.02	525.01	3413	12	180	1475992.5	7419.5	8903.4	9645.4	7640.4	9254.5	10330.7	16356.9
216-1524	O	52	1	59.99	400.9	89.51	101.17	112.82	20	0.472	8	10423.7	1670.5	2004.6	2171.6	1720.2	2083.6	2325.9	3682.7
		1320.8	25.4	1523.8	21554.4	437.02	493.94	550.86	3413	12	203	1423454.5	7430.6	8916.7	9659.8	7651.8	9268.4	10346.1	16381.4
216-1524	O	52	1	59.99	400.9	89.51	101.17	112.82	20	0.472	8	10423.8	1670.5	2004.6	2171.6	1720.2	2083.6	2325.9	3682.7
		1320.8	25.4	1523.8	21554.5	437.02	493.94	550.86	3413	12	203	1423456.7	7430.6	8916.8	9659.8	7651.8	9268.4	10346.1	16381.4
216-1345	O	49	1	52.94	402	94.58	106.72	118.85	20	0.472	3.9	9849	1675	2010	2177.5	1724.9	2089.3	2332.2	3692.7
		1244.6	25.4	1344.6	21612.9	461.78	521.04	580.3	3413	12	100	1344973.8	7450.8	8941	9686	7672.6	9293.6	10374.2	16425.8
216-1579	O	53	1	62.17	402.3	88.24	99.76	111.29	20	0.472	9.2	10661.3	1676.3	2011.6	2179.2	1726.2	2090.9	2334	3695.5
		1346.2	25.4	1579.2	21629.6	430.8	487.09	543.37	3413	12	233	1455888.9	7456.5	8947.8	9693.5	7678.5	9300.7	10382.2	16438.5
217-1639	O	54	1	64.51	402.9	86.93	98.34	109.74	20	0.472	10.5	10878.9	1678.8	2014.6	2182.5	1728.8	2094.1	2337.6	3701.1
		1371.6	25.4	1638.6	21662.4	424.42	480.12	535.82	3413	12	267	1485607.2	7467.9	8961.4	9708.2	7690.2	9314.8	10398	16463.4
217-1639	O	54	1	64.51	402.9	86.93	98.34	109.74	20	0.472	10.5	10878.9	1678.8	2014.6	2182.5	1728.8	2094.1	2337.6	3701.1
		1371.6	25.4	1638.6	21662.4	424.42	480.12	535.82	3413	12	267	1485609.7	7467.9	8961.4	9708.2	7690.2	9314.8	10398	16463.4
217-1791	O	60	0.875	70.51	403	77.69	87.9	98.1	20	0.472	10.5	12089.2	1679.1	2014.9	2182.8	1729	2094.3	2337.8	3701.6
		1524	22.225	1791	21665.1	379.31	429.15	478.98	3413	12	267	1650882.2	7468.8	8962.5	9709.4	7691.1	9316	10399.3	16465.5
217-1497	O	55	0.875	58.94	403.1	83.83	94.6	105.36	20	0.472	3.9	11084.2	1679.4	2015.3	2183.2	1729.4	2094.8	2338.4	3702.4
		1397	22.225	1497	21669.9	409.32	461.87	514.41	3413	12	100	1513640.9	7470.4	8964.5	9711.6	7692.8	9318	10401.5	16469.1
217-1283	O	48	1	50.52	403.7	96.86	109.26	121.65	20	0.472	2.5	9688.8	1682.1	2018.5	2186.7	1732.2	2098.1	2342.1	3708.3
		1219.2	25.4	1283.2	21704.2	472.93	533.44	593.96	3413	12	64	1323090.7	7482.3	8978.7	9727	7705	9332.8	10418	16495.2
217-1283	O	48	1	50.52	403.7	96.86	109.26	121.65	20	0.472	2.5	9688.8	1682.1	2018.5	2186.7	1732.2	2098.1	2342.1	3708.3
		1219.2	25.4	1283.2	21704.3	472.93	533.44	593.96	3413	12	64	1323093.5	7482.3	8978.7	9727	7705	9332.8	10418.1	16495.3
217-1697	O	55	1	66.81	404	85.71	96.99	108.28	20	0.472	11.8	11110.2	1683.4	2020	2188.4	1733.5	2099.7	2343.9	3711.1
		1397	25.4	1697	21720.8	418.45	473.55	528.66	3413	12	300	1517200.9	7488	8985.6	9734.4	7710.9	9340	10426	16507.8

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
217-1655	O	56	0.938	65.17	404.3	83.58	94.5	105.42	20	0.472	9.2	11319.8	1684.5	2021.4	2189.8	1734.6	2101.1	2345.4	3713.6
		1422.4	23.812	1655.4	21735.3	408.06	461.39	514.72	3413	12	233	1545813.7	7493	8991.6	9740.9	7716	9346.2	10432.9	16518.8
218-1421	O	52	0.938	55.94	404.6	89.27	100.73	112.18	20	0.472	3.9	10518.8	1685.7	2022.8	2191.4	1735.9	2102.6	2347.1	3716.3
		1320.8	23.812	1420.8	21751	435.86	491.79	547.73	3413	12	100	1436437.2	7498.4	8998.1	9747.9	7721.6	9352.9	10440.5	16530.8
218-1436	O	54	0.875	56.52	405.2	85.64	96.61	107.57	20	0.472	2.5	10941.2	1688.5	2026.1	2195	1738.7	2106	2350.9	3722.3
		1371.6	22.225	1435.6	21786.4	418.15	471.67	525.19	3413	12	64	1494114	7510.6	9012.7	9763.8	7734.2	9368.2	10457.5	16557.7
218-1779	O	60	0.875	70.02	405.8	78.1	88.33	98.57	20	0.472	10	12174.1	1690.9	2029	2198.1	1741.2	2109	2354.3	3727.6
		1524	22.225	1778.5	21817.4	381.32	431.28	481.25	3413	12	254.5	1662485.2	7521.3	9025.5	9777.7	7745.2	9381.5	10472.3	16581.2
218-1626	O	54	1	64.02	406	87.45	98.9	110.34	20	0.472	10	10962.5	1691.7	2030.1	2199.3	1742.1	2110.2	2355.5	3729.6
		1371.6	25.4	1626.1	21828.9	426.96	482.85	538.74	3413	12	254.5	1497027.2	7525.3	9030.3	9782.8	7749.3	9386.4	10477.9	16590
218-1626	O	54	1	64.02	406	87.45	98.9	110.34	20	0.472	10	10962.5	1691.7	2030.1	2199.3	1742.1	2110.2	2355.5	3729.6
		1371.6	25.4	1626.1	21829	426.96	482.85	538.74	3413	12	254.5	1497029.7	7525.3	9030.3	9782.8	7749.3	9386.5	10477.9	16590
219-1501	O	52	1	59.09	407.1	90.48	102.19	113.89	20	0.472	7.1	10583.5	1696.1	2035.3	2204.9	1746.6	2115.6	2361.5	3739.1
		1320.8	25.4	1500.8	21884.8	441.78	498.92	556.07	3413	12	180	1445269.2	7544.5	9053.4	9807.8	7769.1	9410.4	10504.7	16632.4
219-1501	O	52	1	59.09	407.1	90.48	102.19	113.89	20	0.472	7.1	10583.5	1696.1	2035.3	2204.9	1746.6	2115.6	2361.6	3739.1
		1320.8	25.4	1500.8	21884.8	441.78	498.92	556.07	3413	12	180	1445271.4	7544.5	9053.4	9807.9	7769.1	9410.5	10504.7	16632.4
220-1549	O	53	1	60.99	410.1	89.72	101.4	113.08	20	0.472	8	10867.7	1708.8	2050.5	2221.4	1759.6	2131.4	2379.2	3767.1
		1346.2	25.4	1549.2	22048.5	438.07	495.08	552.1	3413	12	203	1484081.9	7600.9	9121.1	9881.2	7827.2	9480.8	10583.3	16756.8
221-1757	O	60	0.875	69.17	410.8	78.91	89.22	99.54	20	0.472	9.2	12323.1	1711.5	2053.8	2225	1762.5	2134.8	2383.1	3773.2
		1524	22.225	1757	22084.4	385.28	435.63	485.98	3413	12	233	1682828.7	7613.3	9136	9897.3	7839.9	9496.3	10600.5	16784.1
221-1370	O	50	1	53.94	411.3	94.73	106.88	119.03	20	0.472	3.9	10283.1	1713.8	2056.6	2228	1764.9	2137.7	2386.3	3778.3
		1270	25.4	1370	22114.1	462.51	521.83	581.15	3413	12	100	1404246.2	7623.6	9148.3	9910.6	7850.5	9509.1	10614.8	16806.7
221-1370	O	50	1	53.94	411.3	94.73	106.88	119.03	20	0.472	3.9	10283.1	1713.9	2056.6	2228	1764.9	2137.7	2386.3	3778.3
		1270	25.4	1370	22114.1	462.51	521.83	581.15	3413	12	100	1404248.2	7623.6	9148.3	9910.7	7850.5	9509.1	10614.8	16806.7
221-1605	O	54	1	63.17	411.5	88.46	100.01	111.56	20	0.472	9.2	11109.4	1714.4	2057.3	2228.7	1765.4	2138.4	2387.1	3779.5
		1371.6	25.4	1604.6	22121.4	431.92	488.3	544.69	3413	12	233	1517085.8	7626.1	9151.3	9913.9	7853.1	9512.2	10618.3	16812.3
221-1605	O	54	1	63.17	411.5	88.46	100.01	111.56	20	0.472	9.2	11109.4	1714.4	2057.3	2228.7	1765.4	2138.4	2387.1	3779.6
		1371.6	25.4	1604.6	22121.4	431.92	488.3	544.69	3413	12	233	1517088.4	7626.1	9151.3	9913.9	7853.1	9512.2	10618.3	16812.3

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
221-1522	O	56	0.875	59.94	411.7	83.93	94.7	105.48	20	0.472	3.9	11526.8	1715.3	2058.4	2229.9	1766.4	2139.5	2388.3	3781.5
		1422.4	22.225	1522.4	22132.8	409.8	462.39	514.98	3413	12	100	1574087	7630	9156	9919	7857.2	9517.1	10623.8	16821
221-1625	O	56	0.938	63.99	411.7	84.91	95.96	107.02	20	0.472	8	11528.7	1715.6	2058.7	2230.3	1766.6	2139.9	2388.7	3782.1
		1422.4	23.812	1625.4	22136.5	414.56	468.53	522.5	3413	12	203	1574344.8	7631.3	9157.5	9920.7	7858.4	9518.7	10625.5	16823.7
222-1664	O	55	1	65.51	412	87.17	98.6	110.03	20	0.472	10.5	11330.6	1716.8	2060.1	2231.8	1767.9	2141.3	2390.3	3784.7
		1397	25.4	1664	22151.6	425.59	481.4	537.2	3413	12	267	1547289.6	7636.5	9163.8	9927.4	7863.8	9525.2	10632.8	16835.2
222-1461	O	55	0.875	57.52	413	85.72	96.68	107.65	20	0.472	2.5	11357.3	1720.8	2065	2237	1772	2146.4	2396	3793.6
		1397	22.225	1461	22203.8	418.5	472.05	525.59	3413	12	64	1550938	7654.5	9185.4	9950.8	7882.4	9547.6	10657.8	16874.9
222-1309	O	49	1	51.52	413.1	96.98	109.38	121.78	20	0.472	2.5	10120	1721.1	2065.3	2237.4	1772.3	2146.8	2396.4	3794.3
		1244.6	25.4	1308.6	22207.5	473.48	534.03	594.59	3413	12	64	1381974.4	7655.8	9186.9	9952.5	7883.7	9549.2	10659.6	16877.7
222-1722	O	56	1	67.81	413.1	85.96	97.26	108.57	20	0.472	11.8	11565.7	1721.1	2065.3	2237.4	1772.3	2146.8	2396.4	3794.3
		1422.4	25.4	1722.4	22207.5	419.67	474.88	530.1	3413	12	300	1579400.8	7655.8	9186.9	9952.5	7883.7	9549.2	10659.6	16877.7
223-1624	O	60	0.812	63.94	414	78.45	88.52	98.59	20	0.472	3.9	12418.9	1724.8	2069.8	2242.3	1776.2	2151.4	2401.6	3802.6
		1524	20.638	1624	22256.1	383.03	432.19	481.34	3413	12	100	1695911.3	7672.5	9207	9974.3	7900.9	9570.1	10682.9	16914.6
223-1385	O	52	0.938	54.52	415.1	91.4	103.09	114.78	20	0.472	2.5	10792.3	1729.5	2075.4	2248.4	1781	2157.3	2408.1	3812.9
		1320.8	23.812	1384.8	22316.5	446.24	503.31	560.39	3413	12	64	1473779.6	7693.3	9232	10001.3	7922.3	9596.1	10711.9	16960.5
223-1652	O	55	1	65.02	415.1	87.68	99.15	110.62	20	0.472	10	11416.3	1729.7	2075.7	2248.7	1781.2	2157.6	2408.4	3813.4
		1397	25.4	1651.5	22319.3	428.1	484.09	540.09	3413	12	254.5	1559000.9	7694.3	9233.1	10002.6	7923.3	9597.3	10713.2	16962.6
224-1526	O	53	1	60.09	416.3	90.69	102.41	114.13	20	0.472	7.1	11031.5	1734.5	2081.4	2254.9	1786.1	2163.5	2415.1	3823.9
		1346.2	25.4	1526.2	22380.7	442.76	500	557.24	3413	12	180	1506447.2	7715.5	9258.6	10030.1	7945.2	9623.7	10742.8	17009.4
225-1602	O	56	0.938	63.09	417.6	85.76	96.85	107.93	20	0.472	7.1	11694.2	1740.2	2088.2	2262.3	1792	2170.6	2423	3836.4
		1422.4	23.812	1602.4	22454.2	418.7	472.84	526.98	3413	12	180	1596942.1	7740.8	9289	10063	7971.2	9655.3	10778	17065.2
225-1727	O	60	0.875	67.99	417.9	80.08	90.51	100.94	20	0.472	8	12537.2	1741.3	2089.5	2263.7	1793.1	2171.9	2424.5	3838.8
		1524	22.225	1727	22468	391.01	441.91	492.81	3413	12	203	1712061.4	7745.6	9294.7	10069.2	7976.1	9661.2	10784.6	17075.7
225-1575	O	54	1	61.99	419.3	89.93	101.63	113.32	20	0.472	8	11321.1	1747.1	2096.5	2271.2	1799.1	2179.2	2432.6	3851.6
		1371.6	25.4	1574.6	22542.9	439.08	496.19	553.29	3413	12	203	1545990.1	7771.4	9325.6	10102.8	8002.7	9693.4	10820.6	17132.6
225-1575	O	54	1	61.99	419.3	89.93	101.63	113.32	20	0.472	8	11321.1	1747.1	2096.5	2271.2	1799.1	2179.2	2432.6	3851.6
		1371.6	25.4	1574.6	22542.9	439.08	496.19	553.29	3413	12	203	1545992.6	7771.4	9325.7	10102.8	8002.7	9693.5	10820.6	17132.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
226-1630	O	55	1	64.17	420.6	88.68	100.25	111.82	20	0.472	9.2	11566.9	1752.6	2103.1	2278.3	1804.7	2186	2440.2	3863.7
		1397	25.4	1630	22613.7	433	489.48	545.96	3413	12	233	1579564.4	7795.8	9354.9	10134.5	8027.9	9723.9	10854.6	17186.4
226-1395	O	51	1	54.94	420.6	94.87	107.04	119.2	20	0.472	3.9	10726.5	1752.7	2103.2	2278.5	1804.9	2186.2	2440.4	3864
		1295.4	25.4	1395.4	22615.5	463.21	522.59	581.98	3413	12	100	1464804.7	7796.4	9355.7	10135.3	8028.5	9724.7	10855.4	17187.8
226-1689	O	56	1	66.51	421.1	87.4	98.85	110.3	20	0.472	10.5	11791.6	1754.7	2105.6	2281.1	1806.9	2188.7	2443.2	3868.4
		1422.4	25.4	1689.4	22641.3	426.72	482.63	538.54	3413	12	267	1610252.2	7805.3	9366.4	10146.9	8037.7	9735.8	10867.8	17207.4
227-1486	O	56	0.875	58.52	421.6	85.79	96.76	107.73	20	0.472	2.5	11806	1756.8	2108.2	2283.9	1809.1	2191.4	2446.2	3873.1
		1422.4	22.225	1486.4	22668.9	418.85	472.41	525.97	3413	12	64	1612210.7	7814.8	9377.8	10159.3	8047.5	9747.6	10881.1	17228.3
227-1472	O	54	0.938	57.94	422.1	89.51	100.99	112.46	20	0.472	3.9	11396	1758.6	2110.4	2286.2	1811	2193.6	2448.7	3877.1
		1371.6	23.812	1471.6	22692.2	437.03	493.06	549.1	3413	12	100	1556231.3	7822.9	9387.4	10169.7	8055.7	9757.6	10892.3	17246.1
227-1334	O	50	1	52.52	422.4	97.08	109.49	121.91	20	0.472	2.5	10560.6	1760.1	2112.1	2288.1	1812.5	2195.4	2450.7	3880.3
		1270	25.4	1334	22710.9	474	534.6	595.19	3413	12	64	1442141.9	7829.3	9395.2	10178.1	8062.4	9765.7	10901.2	17260.3
227-1334	O	50	1	52.52	422.4	97.08	109.49	121.91	20	0.472	2.5	10560.6	1760.1	2112.1	2288.1	1812.5	2195.4	2450.7	3880.3
		1270	25.4	1334	22710.9	474	534.6	595.19	3413	12	64	1442143.9	7829.3	9395.2	10178.1	8062.4	9765.7	10901.2	17260.3
227-1824	O	60	0.938	71.81	422.6	81.7	92.44	103.19	20	0.472	11.8	12678.4	1760.9	2113.1	2289.2	1813.3	2196.4	2451.8	3882
		1524	23.812	1824	22721.2	398.88	451.34	503.81	3413	12	300	1731354.2	7832.9	9399.4	10182.7	8066	9770.1	10906.2	17268.1
228-1588	O	60	0.812	62.52	423.3	80.06	90.3	100.54	20	0.472	2.5	12700.4	1764	2116.7	2293.1	1816.5	2200.2	2456.1	3888.8
		1524	20.638	1588	22760.6	390.89	440.88	490.87	3413	12	64	1734357.7	7846.4	9415.7	10200.4	8080	9787.1	10925.1	17298.1
228-1704	O	60	0.875	67.09	423.5	80.82	91.27	101.72	20	0.472	7.1	12706.4	1764.8	2117.7	2294.2	1817.3	2201.2	2457.2	3890.6
		1524	22.225	1704	22771.3	394.58	445.6	496.62	3413	12	180	1735170.2	7850.1	9420.1	10205.1	8083.8	9791.6	10930.2	17306.2
228-1677	O	56	1	66.02	424.3	87.91	99.4	110.89	20	0.472	10	11879.5	1767.8	2121.3	2298.1	1820.4	2205	2461.4	3897.2
		1422.4	25.4	1676.9	22810.1	429.21	485.3	541.4	3413	12	254.5	1622255.4	7863.5	9436.2	10222.6	8097.6	9808.3	10948.9	17335.7
229-1552	O	54	1	61.09	425.5	90.88	102.62	114.36	20	0.472	7.1	11488.9	1773	2127.6	2304.9	1825.8	2211.5	2468.6	3908.7
		1371.6	25.4	1551.6	22877	443.72	501.05	558.37	3413	12	180	1568906.9	7886.6	9463.9	10252.5	8121.3	9837.1	10981	17386.5
229-1552	O	54	1	61.09	425.5	90.88	102.62	114.36	20	0.472	7.1	11488.9	1773	2127.6	2304.9	1825.8	2211.5	2468.6	3908.7
		1371.6	25.4	1551.6	22877.1	443.72	501.05	558.37	3413	12	180	1568909.5	7886.6	9463.9	10252.6	8121.4	9837.1	10981	17386.6
230-1600	O	55	1	62.99	428.5	90.13	101.85	113.56	20	0.472	8	11783.8	1785.4	2142.5	2321	1838.6	2227	2486	3936.1
		1397	25.4	1600	23037.7	440.07	497.26	554.45	3413	12	203	1609181.2	7942	9530.3	10324.5	8178.4	9906.2	11058.1	17508.6

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
231-1655	O	56	1	65.17	429.8	88.9	100.49	112.07	20	0.472	9.2	12033.8	1790.7	2148.9	2328	1844.1	2233.6	2493.4	3947.8
		1422.4	25.4	1655.4	23106.4	434.04	490.62	547.19	3413	12	233	1643324.9	7965.6	9558.8	10355.3	8202.8	9935.7	11091.1	17560.8
231-1421	O	52	1	55.94	430	95.01	107.19	119.36	20	0.472	3.9	11179.4	1791.6	2149.9	2329	1844.9	2234.7	2494.5	3949.7
		1320.8	25.4	1420.8	23117	463.89	523.33	582.77	3413	12	100	1526647	7969.3	9563.2	10360.1	8206.5	9940.3	11096.2	17568.9
231-1421	O	52	1	55.94	430	95.01	107.19	119.36	20	0.472	3.9	11179.4	1791.6	2149.9	2329	1844.9	2234.7	2494.5	3949.7
		1320.8	25.4	1420.8	23117	463.89	523.33	582.77	3413	12	100	1526649.3	7969.3	9563.2	10360.1	8206.5	9940.3	11096.2	17568.9
231-1791	O	60	0.938	70.51	430.4	82.98	93.85	104.72	20	0.472	10.5	12912.1	1793.3	2152	2331.3	1846.7	2236.9	2497	3953.6
		1524	23.812	1791	23139.8	405.15	458.22	511.29	3413	12	267	1763255.2	7977.2	9572.6	10370.3	8214.6	9950.1	11107.1	17586.3
232-1359	O	51	1	53.52	431.8	97.19	109.61	122.02	20	0.472	2.5	11010.6	1799.1	2158.9	2338.9	1852.7	2244.1	2505	3966.3
		1295.4	25.4	1359.4	23214.4	474.51	535.14	595.78	3413	12	64	1503596.1	8002.9	9603.4	10403.7	8241.1	9982.2	11142.9	17642.9
233-1436	O	54	0.938	56.52	432.7	91.57	103.27	114.97	20	0.472	2.5	11681.8	1802.8	2163.3	2343.6	1856.4	2248.6	2510.1	3974.3
		1371.6	23.812	1435.6	23261.2	447.07	504.21	561.34	3413	12	64	1595256.3	8019	9622.8	10424.7	8257.7	10002.3	11165.4	17678.5
233-1779	O	60	0.938	70.02	433.4	83.43	94.33	105.23	20	0.472	10	13002.8	1805.9	2167.1	2347.7	1859.7	2252.6	2514.5	3981.3
		1524	23.812	1778.5	23302.5	407.34	460.56	513.79	3413	12	254.5	1775648	8033.2	9639.9	10443.2	8272.4	10020.1	11185.2	17709.9
234-1577	O	55	1	62.09	434.8	91.07	102.83	114.59	20	0.472	7.1	11955.7	1811.5	2173.8	2354.9	1865.4	2259.5	2522.2	3993.5
		1397	25.4	1577	23373.7	444.64	502.06	559.47	3413	12	180	1632650.6	8057.8	9669.3	10475.1	8297.7	10050.7	11219.4	17764
235-1625	O	56	1	63.99	437.7	90.33	102.06	113.79	20	0.472	8	12255.9	1823.8	2188.6	2370.9	1878.1	2274.9	2539.4	4020.7
		1422.4	25.4	1625.4	23532.8	441.02	498.3	555.58	3413	12	203	1673655.7	8112.7	9735.2	10546.5	8354.2	10119.1	11295.8	17885
236-1757	O	60	0.938	69.17	438.7	84.31	95.3	106.28	20	0.472	9.2	13161.9	1828	2193.7	2376.5	1882.5	2280.2	2545.3	4030.1
		1524	23.812	1757	23587.6	411.63	465.27	518.91	3413	12	233	1797376.2	8131.5	9757.8	10571	8373.6	10142.7	11322.1	17926.6
236-1446	O	53	1	56.94	439.3	95.15	107.33	119.52	20	0.472	3.9	11641.7	1830.5	2196.5	2379.6	1884.9	2283.2	2548.7	4035.4
		1346.2	25.4	1446.2	23618.8	464.54	524.04	583.54	3413	12	100	1589779.9	8142.3	9770.7	10585	8384.7	10156.1	11337	17950.3
236-1522	O	56	0.938	59.94	439.6	89.73	101.23	112.72	20	0.472	3.9	12308.7	1831.6	2198	2381.1	1886.2	2284.7	2550.3	4038
		1422.4	23.812	1522.4	23634.1	438.12	494.25	550.37	3413	12	100	1680859.2	8147.6	9777.1	10591.8	8390.1	10162.7	11344.4	17961.9
237-1385	O	52	1	54.52	441.2	97.29	109.71	122.14	20	0.472	2.5	11470	1838.1	2205.8	2389.6	1892.9	2292.8	2559.4	4052.3
		1320.8	25.4	1384.8	23718	475	535.67	596.34	3413	12	64	1566334.5	8176.5	9811.8	10629.4	8419.9	10198.7	11384.6	18025.7
237-1385	O	52	1	54.52	441.2	97.29	109.71	122.14	20	0.472	2.5	11470	1838.1	2205.8	2389.6	1892.9	2292.8	2559.4	4052.3
		1320.8	25.4	1384.8	23718	475	535.67	596.34	3413	12	64	1566336.9	8176.5	9811.8	10629.4	8419.9	10198.7	11384.6	18025.7

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
239-1602	O	56	1	63.09	444	91.25	103.03	114.81	20	0.472	7.1	12431.8	1850	2220	2405	1905	2307.5	2575.8	4078.4
		1422.4	25.4	1602.4	23870.6	445.54	503.04	560.53	3413	12	180	1697678.5	8229.1	9874.9	10697.8	8474.1	10264.4	11457.9	18141.7
239-1624	O	60	0.875	63.94	444.4	84.3	95.1	105.9	20	0.472	3.9	13332.3	1851.7	2222.1	2407.2	1906.8	2309.7	2578.3	4082.2
		1524	22.225	1624	23893	411.6	464.32	517.05	3413	12	100	1820646.6	8236.8	9884.2	10707.9	8482	10274	11468.6	18158.7
240-1727	O	60	0.938	67.99	446.4	85.57	96.69	107.8	20	0.472	8	13390.6	1859.8	2231.8	2417.7	1915.2	2319.8	2589.5	4100.1
		1524	23.812	1727	23997.4	417.81	472.06	526.31	3413	12	203	1828598.7	8272.8	9927.3	10754.6	8519.1	10318.9	11518.7	18238
241-1472	O	54	1	57.94	448.6	95.27	107.47	119.67	20	0.472	3.9	12113.4	1869.4	2243.2	2430.2	1925	2331.7	2602.8	4121.1
		1371.6	25.4	1471.6	24120.7	465.17	524.72	584.28	3413	12	100	1654196.7	8315.3	9978.4	10809.9	8562.8	10371.9	11577.9	18331.7
241-1472	O	54	1	57.94	448.6	95.27	107.47	119.67	20	0.472	3.9	12113.5	1869.4	2243.2	2430.2	1925	2331.7	2602.8	4121.1
		1371.6	25.4	1471.6	24120.7	465.17	524.72	584.28	3413	12	100	1654199.5	8315.3	9978.4	10809.9	8562.9	10371.9	11577.9	18331.8
242-1824	O	60	1	71.81	449.4	86.88	98.28	109.67	20	0.472	11.8	13481.3	1872.4	2246.9	2434.1	1928.1	2335.5	2607.1	4127.8
		1524	25.4	1824	24159.9	424.21	479.83	535.46	3413	12	300	1840986.8	8328.8	9994.6	10827.5	8576.8	10388.8	11596.8	18361.5
242-1486	O	56	0.938	58.52	450.2	91.73	103.44	115.15	20	0.472	2.5	12606.8	1876	2251.2	2438.8	1931.9	2340	2612.1	4135.8
		1422.4	23.812	1486.4	24206.5	447.85	505.04	562.23	3413	12	64	1721568.9	8344.9	10013.9	10848.4	8593.3	10408.8	11619.1	18397
242-1410	O	53	1	55.52	450.5	97.38	109.82	122.25	20	0.472	2.5	11938.9	1877.2	2252.6	2440.3	1933.1	2341.5	2613.7	4138.4
		1346.2	25.4	1410.2	24221.7	475.47	536.17	596.88	3413	12	64	1630364.3	8350.1	10020.2	10855.2	8598.7	10415.3	11626.4	18408.5
243-1704	O	60	0.938	67.09	452.4	86.38	97.53	108.67	20	0.472	7.1	13571.3	1884.9	2261.9	2450.4	1941	2351.1	2624.5	4155.4
		1524	23.812	1704	24321.3	421.75	476.16	530.57	3413	12	180	1853280.5	8384.5	10061.3	10899.8	8634	10458.1	11674.2	18484.2
244-1588	O	60	0.875	62.52	454.5	86.04	97.03	108.02	20	0.472	2.5	13634.6	1893.7	2272.4	2461.8	1950.1	2362	2636.7	4174.8
		1524	22.225	1588	24434.7	420.1	473.75	527.39	3413	12	64	1861920.7	8423.6	10108.2	10950.6	8674.3	10506.9	11728.6	18570.3
246-1791	O	60	1	70.51	457.7	88.26	99.79	111.32	20	0.472	10.5	13729.7	1906.9	2288.3	2479	1963.7	2378.5	2655.1	4203.9
		1524	25.4	1791	24605.1	430.94	487.24	543.53	3413	12	267	1874907.9	8482.3	10178.8	11027	8734.8	10580.2	11810.4	18699.9
246-1497	O	55	1	58.94	458	95.4	107.61	119.82	20	0.472	3.9	12594.6	1908.3	2289.9	2480.7	1965.1	2380.2	2657	4206.9
		1397	25.4	1497	24622.8	465.78	525.39	584.99	3413	12	100	1719899.8	8488.4	10186.1	11034.9	8741.1	10587.8	11818.9	18713.3
247-1436	O	54	1	56.52	459.9	97.48	109.92	122.36	20	0.472	2.5	12417.2	1916.2	2299.5	2491.1	1973.3	2390.2	2668.1	4224.5
		1371.6	25.4	1435.6	24725.6	475.92	536.66	597.4	3413	12	64	1695678.4	8523.8	10228.6	11081	8777.6	10632	11868.3	18791.4
247-1436	O	54	1	56.52	459.9	97.48	109.92	122.36	20	0.472	2.5	12417.2	1916.2	2299.5	2491.1	1973.3	2390.2	2668.1	4224.5
		1371.6	25.4	1435.6	24725.6	475.92	536.66	597.4	3413	12	64	1695681.2	8523.9	10228.6	11081	8777.6	10632	11868.3	18791.5

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Section	Solution Type	Pipe		Width	Section Modulus	Panel Weight by Ratio			Interlock Stregth	Minimum Thickness	Connector Width	Moment of Inertia	Bending Moment by Grade						
		Diameter	Thickness			60%	80%	100%					50	60	65	S 355 GP	S 430 GP	x70	x110
		in (mm)	in (mm)	in (mm)	in^3/ft (cm^3/m)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	k/ft (kN/m)	in (mm)	in (mm)	in^4/ft (cm^4/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)	k•ft/ft (kN•m/m)
248-1779	O	60	1	70.02	460.9	88.75	100.32	111.88	20	0.472	10	13826.2	1920.3	2304.4	2496.4	1977.5	2395.2	2673.8	4233.4
		1524	25.4	1778.5	24778	433.31	489.78	546.25	3413	12	254.5	1888085.5	8541.9	10250.3	11104.5	8796.2	10654.6	11893.5	18831.3
251-1757	O	60	1	69.17	466.5	89.69	101.35	113.01	20	0.472	9.2	13995.4	1943.8	2332.6	2526.9	2001.7	2424.5	2706.5	4285.2
		1524	25.4	1757	25081.2	437.92	494.85	551.77	3413	12	233	1911189.5	8646.5	10375.7	11240.4	8903.8	10784.9	12039	19061.7
251-1522	O	56	1	59.94	467.3	95.52	107.74	119.96	20	0.472	3.9	13085.1	1947.2	2336.6	2531.3	2005.2	2428.8	2711.2	4292.7
		1422.4	25.4	1522.4	25125	466.37	526.03	585.68	3413	12	100	1786889.1	8661.5	10393.8	11260	8919.4	10803.7	12060	19095
252-1461	O	55	1	57.52	469.3	97.57	110.01	122.46	20	0.472	2.5	12904.9	1955.3	2346.3	2541.9	2013.5	2438.9	2722.5	4310.6
		1397	25.4	1461	25229.5	476.36	537.13	597.91	3413	12	64	1762279.2	8697.6	10437.1	11306.8	8956.5	10848.7	12110.2	19174.4
255-1727	O	60	1	67.99	474.6	91.05	102.85	114.64	20	0.472	8	14238.5	1977.6	2373.1	2570.8	2036.4	2466.7	2753.5	4359.7
		1524	25.4	1727	25516.9	444.56	502.15	559.75	3413	12	203	1944389.1	8796.7	10556	11435.6	9058.5	10972.3	12248.1	19392.9
255-1624	O	60	0.938	63.94	474.7	90.14	101.67	113.2	20	0.472	3.9	14239.8	1977.8	2373.3	2571.1	2036.6	2466.9	2753.8	4360.1
		1524	23.812	1624	25519.4	440.1	496.39	552.68	3413	12	100	1944575.1	8797.5	10557	11436.7	9059.4	10973.3	12249.3	19394.7
257-1486	O	56	1	58.52	478.6	97.65	110.11	122.56	20	0.472	2.5	13402	1994.4	2393.2	2592.7	2053.7	2487.6	2776.9	4396.7
		1422.4	25.4	1486.4	25733.5	476.78	537.59	598.39	3413	12	64	1830166.8	8871.3	10645.6	11532.7	9135.4	11065.4	12352.1	19557.5
259-1704	O	60	1	67.09	481	91.93	103.77	115.61	20	0.472	7.1	14430.7	2004.3	2405.1	2605.5	2063.9	2500	2790.7	4418.5
		1524	25.4	1704	25861.3	448.85	506.66	564.46	3413	12	180	1970633.8	8915.4	10698.4	11590	9180.8	11120.4	12413.4	19654.6
261-1588	O	60	0.938	62.52	485.4	92.01	103.75	115.48	20	0.472	2.5	14562.6	2022.6	2427.1	2629.4	2082.8	2522.8	2816.2	4458.9
		1524	23.812	1588	26097.9	449.25	506.54	563.83	3413	12	64	1988658.7	8996.9	10796.3	11696	9264.7	11222.1	12527	19834.4
271-1624	O	60	1	63.94	504.7	95.97	108.22	120.48	20	0.472	3.9	15141.5	2103	2523.6	2733.9	2165.6	2623.1	2928.1	4636.2
		1524	25.4	1624	27135.3	468.54	528.39	588.23	3413	12	100	2067709.4	9354.6	11225.5	12160.9	9633	11668.2	13024.9	20622.8
278-1588	O	60	1	62.52	516.2	97.97	110.45	122.93	20	0.472	2.5	15484.8	2150.7	2580.8	2795.9	2214.7	2682.6	2994.5	4741.3
		1524	25.4	1588	27750.5	478.34	539.26	600.19	3413	12	64	2114584.4	9566.6	11479.9	12436.6	9851.4	11932.7	13320.2	21090.3

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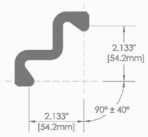
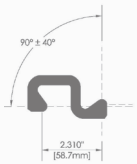
PilePro® Sheet Pile Connectors



HR® Omega



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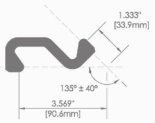

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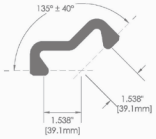

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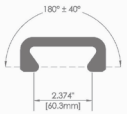

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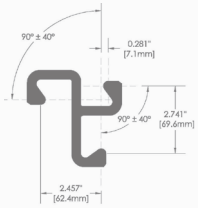
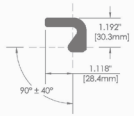


HR® Tee



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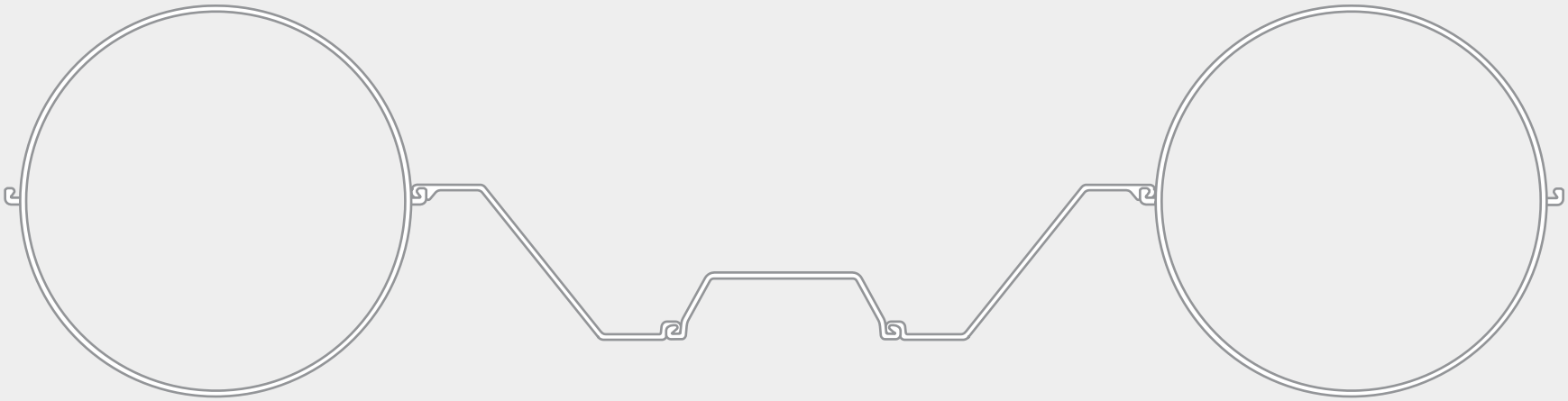
Configuration A



SECTION NAME:

78 - 2527

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

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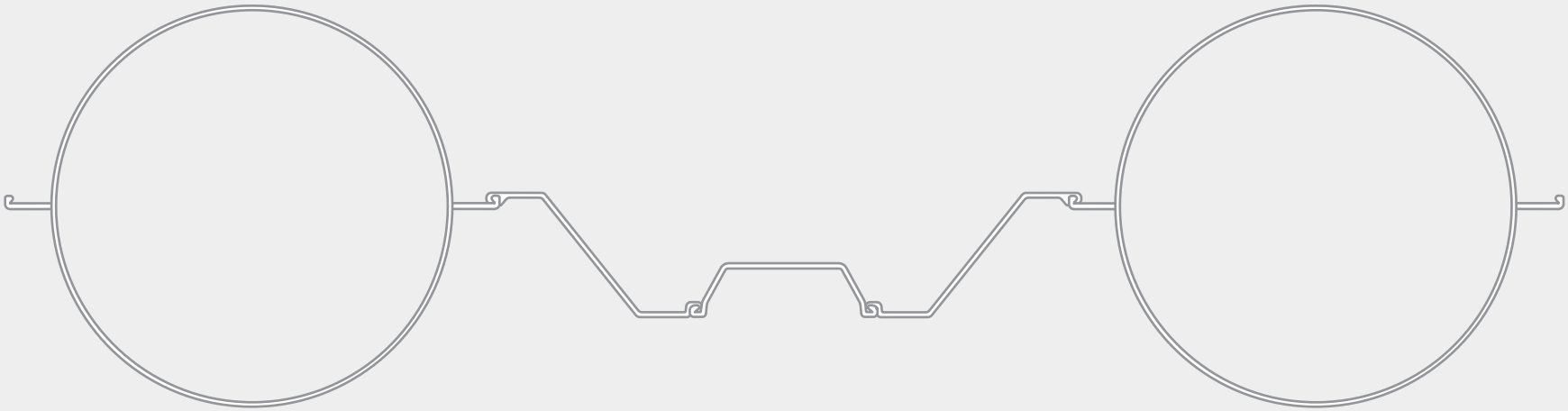
Configuration B



SECTION NAME:
87 - 3714

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
12-2889	OZ	21.6	113.72	0.394	18	19	22.7	26.5	194.4	11.15	22.49	B1
		1161.5	2888.6	10	457	92.8	111	129.2	26552.8	3.4	6.86	
12-2939	OZ	21.9	115.72	0.375	20	19.2	22.8	26.5	219	11.41	23.02	B1
		1177.4	2939.4	9.525	508	93.5	111.4	129.3	29906.8	3.48	7.02	
12-2939	OZ	22.4	115.72	0.394	20	19.6	23.2	26.9	224.4	11.41	23.02	B1
		1206.6	2939.4	10	508	95.5	113.4	131.2	30646.5	3.48	7.02	
12-2889	OZ	22.6	113.72	0.438	18	19.9	23.6	27.3	203.6	11.15	22.49	B1
		1216.4	2888.6	11.112	457	96.9	115.1	133.4	27807.1	3.4	6.86	
12-2657	OZ	23	104.61	0.375	18	19.4	23.1	26.9	207.1	11.15	22.49	A1
		1236.9	2657.2	9.525	457	94.7	113	131.4	28276.6	3.4	6.86	
13-2889	OZ	23.4	113.72	0.472	18	20.5	24.3	28	210.9	11.15	22.49	B1
		1259.6	2888.6	12	457	100.2	118.4	136.6	28794	3.4	6.86	
13-2657	OZ	23.5	104.61	0.394	18	19.8	23.5	27.3	211.4	11.15	22.49	A1
		1262.7	2657.2	10	457	96.6	114.9	133.3	28865.1	3.4	6.86	
13-2939	OZ	23.7	115.72	0.438	20	20.5	24.1	27.8	237	11.41	23.02	B1
		1274.1	2939.4	11.112	508	100	117.9	135.8	32362	3.48	7.02	
13-2708	OZ	23.8	106.61	0.375	20	19.9	23.6	27.3	237.7	11.41	23.02	A1
		1278	2708	9.525	508	97.3	115.3	133.3	32462.4	3.48	7.02	
13-2889	OZ	24.1	113.72	0.5	18	21.1	24.8	28.5	216.5	11.15	22.49	B1
		1293.3	2888.6	12.7	457	102.8	121	139.2	29563.9	3.4	6.86	
13-2708	OZ	24.4	106.61	0.394	20	20.4	24	27.7	243.6	11.41	23.02	A1
		1309.7	2708	10	508	99.4	117.4	135.4	33265.2	3.48	7.02	
13-3041	OZ	24.6	119.72	0.375	24	20.1	23.7	27.2	294.8	11.93	24.07	B1
		1320.6	3041	9.525	609	98.2	115.5	132.8	40252.1	3.64	7.34	
13-2657	OZ	24.6	104.61	0.438	18	20.7	24.5	28.2	221.4	11.15	22.49	A1
		1322.3	2657.2	11.112	457	101.1	119.4	137.8	30228.6	3.4	6.86	
13-2939	OZ	24.7	115.72	0.472	20	21.2	24.9	28.6	246.9	11.41	23.02	B1
		1327.3	2939.4	12	508	103.6	121.5	139.4	33713.7	3.48	7.02	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
14-3041	OZ	25.3	119.72	0.394	24	20.6	24.1	27.7	304	11.93	24.07	B1
		1362	3041	10	609	100.5	117.8	135.1	41512.3	3.64	7.34	
14-2889	OZ	25.5	113.72	0.562	18	22.3	26	29.7	229.1	11.15	22.49	B1
		1368.4	2888.6	14.288	457	108.6	126.9	145.1	31282.3	3.4	6.86	
14-2939	OZ	25.5	115.72	0.5	20	21.8	25.5	29.1	254.6	11.41	23.02	B1
		1368.9	2939.4	12.7	508	106.5	124.3	142.2	34769.4	3.48	7.02	
14-2657	OZ	25.5	104.61	0.472	18	21.4	25.2	29	229.2	11.15	22.49	A1
		1369.3	2657.2	12	457	104.7	123	141.4	31301.5	3.4	6.86	
14-2708	OZ	25.7	106.61	0.438	20	21.4	25.1	28.7	257.2	11.41	23.02	A1
		1383	2708	11.112	508	104.3	122.3	140.4	35127.3	3.48	7.02	
14-2657	OZ	26.1	104.61	0.5	18	22	25.8	29.5	235.3	11.15	22.49	A1
		1405.9	2657.2	12.7	457	107.5	125.8	144.2	32138.4	3.4	6.86	
14-2810	OZ	26.6	110.61	0.375	24	20.9	24.5	28.1	319	11.93	24.07	A1
		1429.4	2809.6	9.525	609	102.3	119.6	137	43567.3	3.64	7.34	
14-2708	OZ	26.8	106.61	0.472	20	22.2	25.9	29.5	268	11.41	23.02	A1
		1440.7	2708	12	508	108.2	126.3	144.3	36594.5	3.48	7.02	
14-2889	OZ	26.8	113.72	0.625	18	23.4	27.2	30.9	241.4	11.15	22.49	B1
		1442	2888.6	15.875	457	114.4	132.6	150.8	32963	3.4	6.86	
15-3041	OZ	27.1	119.72	0.438	24	21.7	25.2	28.8	325.4	11.93	24.07	B1
		1458	3041	11.112	609	105.8	123.1	140.4	44440.2	3.64	7.34	
15-2939	OZ	27.2	115.72	0.562	20	23.1	26.8	30.4	271.9	11.41	23.02	B1
		1461.8	2939.4	14.288	508	112.9	130.8	148.6	37129.8	3.48	7.02	
15-2810	OZ	27.4	110.61	0.394	24	21.4	25	28.6	329	11.93	24.07	A1
		1474.1	2809.6	10	609	104.7	122.1	139.4	44931.3	3.64	7.34	
15-2708	OZ	27.6	106.61	0.5	20	22.8	26.5	30.2	276.4	11.41	23.02	A1
		1485.8	2708	12.7	508	111.3	129.3	147.4	37740.5	3.48	7.02	
15-2657	OZ	27.7	104.61	0.562	18	23.3	27.1	30.8	249	11.15	22.49	A1
		1487.6	2657.2	14.288	457	113.8	132.2	150.5	34006.5	3.4	6.86	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
15-3143	OZ	28.4	123.72	0.375	28	21	24.5	27.9	398	12.46	25.11	B1
		1528.5	3142.6	9.525	711	102.7	119.4	136.1	54352.1	3.8	7.65	
15-3041	OZ	28.5	119.72	0.472	24	22.5	26.1	29.6	342.4	11.93	24.07	B1
		1533.9	3041	12	609	110	127.3	144.6	46752.4	3.64	7.34	
16-2939	OZ	28.9	115.72	0.625	20	24.4	28.1	31.7	288.8	11.41	23.02	B1
		1552.9	2939.4	15.875	508	119.2	137.1	155	39443.8	3.48	7.02	
16-2657	OZ	29.2	104.61	0.625	18	24.6	28.4	32.1	262.4	11.15	22.49	A1
		1567.5	2657.2	15.875	457	120.1	138.5	156.8	35833.6	3.4	6.86	
16-2810	OZ	29.4	110.61	0.438	24	22.6	26.2	29.7	352.2	11.93	24.07	A1
		1578.1	2809.6	11.112	609	110.5	127.8	145.2	48100.4	3.64	7.34	
16-2889	OZ	29.4	113.72	0.75	18	25.8	29.5	33.2	264.8	11.15	22.49	B1
		1581.9	2888.6	19.05	457	125.9	144.1	162.3	36163.3	3.4	6.86	
16-3143	OZ	29.5	123.72	0.394	28	21.6	25	28.4	412.4	12.46	25.11	B1
		1583.7	3142.6	10	711	105.2	122	138.7	56316.1	3.8	7.65	
16-2708	OZ	29.5	106.61	0.562	20	24.2	27.9	31.6	295.1	11.41	23.02	A1
		1586.7	2708	14.288	508	118.3	136.3	154.3	40302.6	3.48	7.02	
16-3041	OZ	29.6	119.72	0.5	24	23.2	26.8	30.3	355.6	11.93	24.07	B1
		1593.2	3041	12.7	609	113.4	130.7	147.9	48561	3.64	7.34	
16-2901	OZ	30.6	114.21	0.375	24	21.1	24.8	28.6	366.6	11.97	24.13	B2
		1642.5	2901	9.525	609	103.1	121.3	139.5	50064.6	3.65	7.36	
16-2911	OZ	30.7	114.61	0.375	28	21.9	25.3	28.8	429.6	12.46	25.11	A1
		1650	2911.2	9.525	711	106.9	123.6	140.4	58672.4	3.8	7.65	
17-3193	OZ	30.7	125.72	0.375	30	21.5	24.8	28.2	460.8	12.72	25.64	B1
		1651.7	3193.4	9.525	762	104.8	121.2	137.7	62928.5	3.88	7.81	
17-2810	OZ	30.9	110.61	0.472	24	23.6	27.1	30.7	370.6	11.93	24.07	A1
		1660.2	2809.6	12	609	115	132.4	149.8	50602.9	3.64	7.34	
17-2708	OZ	31.4	106.61	0.625	20	25.6	29.3	33	313.5	11.41	23.02	A1
		1685.6	2708	15.875	508	125.2	143.2	161.2	42814.3	3.48	7.02	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
17-2901	OZ	31.4	114.21	0.394	24	21.6	25.3	29.1	376.3	11.97	24.13	B2
		1685.9	2901	10	609	105.5	123.7	141.9	51385.6	3.65	7.36	
17-2911	OZ	31.8	114.61	0.394	28	22.5	25.9	29.3	445.2	12.46	25.11	A1
		1709.6	2911.2	10	711	109.7	126.4	143.2	60792.4	3.8	7.65	
17-3143	OZ	31.8	123.72	0.438	28	22.8	26.2	29.6	445.9	12.46	25.11	B1
		1712.2	3142.6	11.112	711	111.3	128	144.7	60884.9	3.8	7.65	
17-3193	OZ	31.9	125.72	0.394	30	22	25.4	28.8	478.3	12.72	25.64	B1
		1714.4	3193.4	10	762	107.5	124	140.4	65319.1	3.88	7.81	
17-2657	OZ	32	104.61	0.75	18	27.1	30.9	34.7	287.9	11.15	22.49	A1
		1719.7	2657.2	19.05	457	132.5	150.9	169.3	39312.6	3.4	6.86	
17-2810	OZ	32.1	110.61	0.5	24	24.3	27.9	31.4	384.9	11.93	24.07	A1
		1724.4	2809.6	12.7	609	118.6	136	153.4	52560.5	3.64	7.34	
17-3041	OZ	32.1	119.72	0.562	24	24.8	28.3	31.8	385.3	11.93	24.07	B1
		1726.2	3041	14.288	609	120.9	138.2	155.4	52615.2	3.64	7.34	
17-2939	OZ	32.2	115.72	0.75	20	27	30.7	34.3	321.7	11.41	23.02	B1
		1729.7	2939.4	19.05	508	131.8	149.7	167.6	43934.9	3.48	7.02	
18-2962	OZ	33.1	116.61	0.375	30	22.3	25.7	29.1	496.8	12.72	25.64	A1
		1780.7	2962	9.525	762	109.1	125.6	142	67844.7	3.88	7.81	
18-2670	OZ	33.2	105.1	0.375	24	22.1	25.8	29.6	398.4	11.97	24.13	A2
		1784.9	2669.6	9.525	609	107.8	126.1	144.4	54404.1	3.65	7.36	
18-3244	OZ	33.2	127.72	0.375	31	21.9	25.2	28.5	531.5	12.98	26.16	B1
		1785.9	3244.2	9.525	812	106.8	123	139.2	72579.4	3.96	7.97	
18-2901	OZ	33.2	114.21	0.438	24	22.7	26.5	30.2	398.8	11.97	24.13	B2
		1786.6	2901	11.112	609	111.1	129.2	147.4	54454.8	3.65	7.36	
18-3003	OZ	33.7	118.21	0.375	28	22	25.6	29.2	472.3	12.49	25.18	B2
		1813.6	3002.6	9.525	711	107.6	125.1	142.7	64490	3.81	7.67	
18-3143	OZ	33.7	123.72	0.472	28	23.8	27.2	30.6	472.3	12.46	25.11	B1
		1813.8	3142.6	12	711	116	132.8	149.5	64497.9	3.8	7.65	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
18-2670	OZ	34.1	105.1	0.394	24	22.6	26.4	30.1	408.9	11.97	24.13	A2
		1832	2669.6	10	609	110.4	128.7	147	55839.7	3.65	7.36	
18-2911	OZ	34.4	114.61	0.438	28	23.8	27.2	30.7	481.3	12.46	25.11	A1
		1848.3	2911.2	11.112	711	116.2	132.9	149.7	65724.4	3.8	7.65	
18-2962	OZ	34.4	116.61	0.394	30	22.9	26.3	29.7	515.7	12.72	25.64	A1
		1848.3	2962	10	762	112	128.5	145	70422	3.88	7.81	
19-3244	OZ	34.5	127.72	0.394	31	22.5	25.8	29.1	552.5	12.98	26.16	B1
		1856.5	3244.2	10	812	109.7	125.9	142.1	75449.7	3.96	7.97	
19-3041	OZ	34.5	119.72	0.625	24	26.3	29.8	33.4	414.5	11.93	24.07	B1
		1857.1	3041	15.875	609	128.3	145.6	162.9	56603.4	3.64	7.34	
19-3193	OZ	34.6	125.72	0.438	30	23.3	26.7	30.1	519.1	12.72	25.64	B1
		1860.4	3193.4	11.112	762	113.8	130.3	146.8	70883.1	3.88	7.81	
19-2901	OZ	34.7	114.21	0.472	24	23.7	27.4	31.1	416.5	11.97	24.13	B2
		1866.1	2901	12	609	115.5	133.7	151.9	56878.6	3.65	7.36	
19-2810	OZ	34.8	110.61	0.562	24	26	29.5	33.1	417	11.93	24.07	A1
		1868.4	2809.6	14.288	609	126.7	144.1	161.5	56948.7	3.64	7.34	
19-3003	OZ	34.8	118.21	0.394	28	22.6	26.2	29.8	487.3	12.49	25.18	B2
		1871.4	3002.6	10	711	110.3	127.8	145.4	66545.6	3.81	7.67	
19-2708	OZ	34.9	106.61	0.75	20	28.4	32.1	35.8	349.2	11.41	23.02	A1
		1877.5	2708	19.05	508	138.9	156.9	174.9	47689.2	3.48	7.02	
19-3143	OZ	35.2	123.72	0.5	28	24.5	28	31.4	493	12.46	25.11	B1
		1893.4	3142.6	12.7	711	119.8	136.6	153.3	67327.7	3.8	7.65	
19-3013	OZ	35.8	118.61	0.375	31	22.8	26.1	29.4	572.3	12.98	26.16	A1
		1923.1	3012.8	9.525	812	111.2	127.4	143.6	78153.9	3.96	7.97	
19-3053	OZ	35.8	120.21	0.375	30	22.5	26	29.5	536.7	12.75	25.7	B2
		1923.6	3053.4	9.525	762	109.7	127	144.2	73291	3.89	7.83	
19-2901	OZ	35.9	114.21	0.5	24	24.4	28.1	31.8	430.4	11.97	24.13	B2
		1928.3	2901	12.7	609	119	137.2	155.3	58774.5	3.65	7.36	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
19-3295	OZ	35.9	129.72	0.375	34	22.3	25.5	28.8	610.3	13.24	26.68	B1
		1930.2	3295	9.525	863	108.8	124.7	140.7	83345.1	4.04	8.13	
19-2670	OZ	36.1	105.1	0.438	24	23.8	27.6	31.4	433.3	11.97	24.13	A2
		1941.4	2669.6	11.112	609	116.4	134.7	153.1	59175	3.65	7.36	
19-2301	OZ	36.1	90.59	0.375	24	23	26.5	29.9	433.6	9.24	18.49	B3
		1942.8	2301	9.525	609	112.2	129.2	146.1	59215	2.82	5.64	
20-2911	OZ	36.4	114.61	0.472	28	24.9	28.3	31.7	509.8	12.46	25.11	A1
		1957.9	2911.2	12	711	121.3	138.1	154.9	69624.5	3.8	7.65	
20-2771	OZ	36.5	109.1	0.375	28	23	26.6	30.3	511.7	12.49	25.18	A2
		1965	2771.2	9.525	711	112.4	130.1	147.7	69875	3.81	7.67	
20-3193	OZ	36.8	125.72	0.472	30	24.4	27.7	31.1	551.3	12.72	25.64	B1
		1976	3193.4	12	762	118.9	135.4	151.8	75285.6	3.88	7.81	
20-3041	OZ	36.9	119.72	0.688	24	27.8	31.3	34.9	443.2	11.93	24.07	B1
		1985.8	3041	17.462	609	135.7	153	170.3	60526.5	3.64	7.34	
20-3053	OZ	37	120.21	0.394	30	23.1	26.6	30.1	555	12.75	25.7	B2
		1989.3	3053.4	10	762	112.5	129.8	147.1	75791.2	3.89	7.83	
20-2301	OZ	37.2	90.59	0.394	24	23.6	27.1	30.5	445.8	9.24	18.49	B3
		1997.4	2301	10	609	115.2	132.2	149.1	60880.6	2.82	5.64	
20-3013	OZ	37.2	118.61	0.394	31	23.4	26.7	30	594.9	12.98	26.16	A1
		1999.1	3012.8	10	812	114.3	130.5	146.7	81244.7	3.96	7.97	
20-2962	OZ	37.3	116.61	0.438	30	24.3	27.7	31.1	559.6	12.72	25.64	A1
		2005.8	2962	11.112	762	118.9	135.4	151.8	76420.6	3.88	7.81	
20-3003	OZ	37.3	118.21	0.438	28	23.9	27.5	31.1	522.3	12.49	25.18	B2
		2005.8	3002.6	11.112	711	116.6	134.1	151.7	71327.4	3.81	7.67	
20-3295	OZ	37.4	129.72	0.394	34	22.9	26.2	29.4	635.3	13.24	26.68	B1
		2009	3295	10	863	111.8	127.7	143.7	86749.3	4.04	8.13	
20-2810	OZ	37.4	110.61	0.625	24	27.6	31.2	34.7	448.6	11.93	24.07	A1
		2010	2809.6	15.875	609	134.8	152.2	169.5	61265.3	3.64	7.34	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
20-3244	OZ	37.6	127.72	0.438	31	23.8	27.2	30.5	601.4	12.98	26.16	B1
		2021	3244.2	11.112	812	116.4	132.6	148.8	82131.8	3.96	7.97	
20-2771	OZ	37.7	109.1	0.394	28	23.6	27.2	30.9	528	12.49	25.18	A2
		2027.6	2771.2	10	711	115.4	133	150.7	72102.2	3.81	7.67	
20-2670	OZ	37.7	105.1	0.472	24	24.8	28.6	32.3	452.6	11.97	24.13	A2
		2027.8	2669.6	12	609	121.2	139.6	157.9	61808.8	3.65	7.36	
20-2911	OZ	38	114.61	0.5	28	25.7	29.1	32.6	532.2	12.46	25.11	A1
		2043.8	2911.2	12.7	711	125.4	142.2	158.9	72679.3	3.8	7.65	
20-3104	OZ	38.1	122.21	0.375	31	22.9	26.4	29.8	609.3	13.01	26.23	B2
		2047.4	3104.2	9.525	812	111.7	128.7	145.7	83207.5	3.97	7.99	
21-3193	OZ	38.4	125.72	0.5	30	25.2	28.5	31.9	576.6	12.72	25.64	B1
		2066.5	3193.4	12.7	762	122.9	139.4	155.8	78735.5	3.88	7.81	
21-2901	OZ	38.5	114.21	0.562	24	26	29.7	33.4	461.5	11.97	24.13	B2
		2067.7	2901	14.288	609	126.8	145	163.2	63024.4	3.65	7.36	
21-3143	OZ	38.5	123.72	0.562	28	26.3	29.7	33.1	539.6	12.46	25.11	B1
		2072	3142.6	14.288	711	128.3	145.1	161.8	73682	3.8	7.65	
21-3064	OZ	38.6	120.61	0.375	34	23.2	26.5	29.7	656.4	13.24	26.68	A1
		2076	3063.6	9.525	863	113.3	129.2	145.1	89640.3	4.04	8.13	
21-2822	OZ	38.7	111.1	0.375	30	23.5	27	30.6	580.7	12.75	25.7	A2
		2081.4	2822	9.525	762	114.6	132	149.3	79300.7	3.89	7.83	
21-3346	OZ	38.8	131.72	0.375	36	22.7	25.9	29.1	697.6	13.51	27.21	B1
		2083.6	3345.8	9.525	914	110.7	126.4	142.1	95261.8	4.12	8.29	
21-2670	OZ	39	105.1	0.5	24	25.6	29.4	33.1	467.7	11.97	24.13	A2
		2095.4	2669.6	12.7	609	125	143.3	161.7	63869	3.65	7.36	
21-3003	OZ	39.3	118.21	0.472	28	24.9	28.5	32.1	550	12.49	25.18	B2
		2112.2	3002.6	12	711	121.6	139.2	156.7	75108.8	3.81	7.67	
21-3041	OZ	39.3	119.72	0.75	24	29.3	32.9	36.4	471.5	11.93	24.07	B1
		2112.4	3041	19.05	609	143.1	160.4	177.7	64385.1	3.64	7.34	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
21-3104	OZ	39.5	122.21	0.394	31	23.5	27	30.5	631.3	13.01	26.23	B2
		2121.2	3104.2	10	812	114.7	131.7	148.7	86207.3	3.97	7.99	
21-2301	OZ	39.5	90.59	0.438	24	25	28.5	32	474.2	9.24	18.49	B3
		2124.3	2301	11.112	609	122.2	139.2	156.1	64750.1	2.82	5.64	
21-2962	OZ	39.6	116.61	0.472	30	25.5	28.8	32.2	594.4	12.72	25.64	A1
		2130.4	2962	12	762	124.3	140.8	157.3	81167.1	3.88	7.81	
21-3053	OZ	39.8	120.21	0.438	30	24.4	28	31.5	597.6	12.75	25.7	B2
		2142	3053.4	11.112	762	119.2	136.5	153.7	81610.2	3.89	7.83	
21-2810	OZ	40	110.61	0.688	24	29.3	32.8	36.4	479.7	11.93	24.07	A1
		2149.3	2809.6	17.462	609	142.8	160.2	177.6	65511.4	3.64	7.34	
22-3244	OZ	40	127.72	0.472	31	24.9	28.2	31.6	640.2	12.98	26.16	B1
		2151.1	3244.2	12	812	121.7	137.9	154.1	87422.2	3.96	7.97	
22-2822	OZ	40	111.1	0.394	30	24.1	27.7	31.2	600.5	12.75	25.7	A2
		2152.4	2822	10	762	117.7	135.1	152.4	82005.9	3.89	7.83	
22-2070	OZ	40.2	81.48	0.375	24	24.4	27.9	31.4	482.1	9.24	18.49	A3
		2160	2069.6	9.525	609	119.2	136.2	153.3	65835.8	2.82	5.64	
22-3064	OZ	40.2	120.61	0.394	34	23.9	27.1	30.4	683.2	13.24	26.68	A1
		2160.8	3063.6	10	863	116.5	132.4	148.3	93301.7	4.04	8.13	
22-2403	OZ	40.2	94.59	0.375	28	24	27.4	30.7	562.8	9.77	19.54	B3
		2161.3	2402.6	9.525	711	117.4	133.6	149.9	76856	2.98	5.95	
22-3346	OZ	40.4	131.72	0.394	36	23.3	26.5	29.8	726.8	13.51	27.21	B1
		2171	3345.8	10	914	113.8	129.5	145.3	99257	4.12	8.29	
22-2771	OZ	40.4	109.1	0.438	28	25	28.6	32.3	565.9	12.49	25.18	A2
		2173.3	2771.2	11.112	711	122.2	139.8	157.5	77283.4	3.81	7.67	
22-3013	OZ	40.5	118.61	0.438	31	24.9	28.2	31.5	647.6	12.98	26.16	A1
		2176.2	3012.8	11.112	812	121.5	137.7	153.9	88440	3.96	7.97	
22-3155	OZ	40.6	124.21	0.375	34	23.3	26.7	30.1	690.4	13.28	26.75	B2
		2183.4	3155	9.525	863	113.7	130.4	147.2	94279.8	4.05	8.15	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
22-3295	OZ	40.8	129.72	0.438	34	24.3	27.6	30.9	693.3	13.24	26.68	B1
		2192.6	3295	11.112	863	118.8	134.7	150.7	94678	4.04	8.13	
22-3003	OZ	40.8	118.21	0.5	28	25.7	29.3	32.9	571.7	12.49	25.18	B2
		2195.5	3002.6	12.7	711	125.5	143.1	160.7	78070.6	3.81	7.67	
22-2901	OZ	41	114.21	0.625	24	27.6	31.3	35	492.1	11.97	24.13	B2
		2204.9	2901	15.875	609	134.7	152.8	171	67205	3.65	7.36	
22-2873	OZ	41.1	113.1	0.375	31	23.9	27.4	30.9	658.4	13.01	26.23	A2
		2212.3	2872.8	9.525	812	116.8	133.8	150.8	89909.7	3.97	7.99	
22-2070	OZ	41.3	81.48	0.394	24	25.1	28.6	32.1	495.7	9.24	18.49	A3
		2220.7	2069.6	10	609	122.5	139.6	156.6	67687.6	2.82	5.64	
22-2301	OZ	41.4	90.59	0.472	24	26.2	29.6	33.1	496.5	9.24	18.49	B3
		2224.6	2301	12	609	127.8	144.8	161.7	67805.8	2.82	5.64	
22-2962	OZ	41.4	116.61	0.5	30	26.3	29.7	33.1	621.6	12.72	25.64	A1
		2228	2962	12.7	762	128.6	145.1	161.6	84886.5	3.88	7.81	
22-2403	OZ	41.5	94.59	0.394	28	24.7	28.1	31.4	581.6	9.77	19.54	B3
		2233.5	2402.6	10	711	120.7	137	153.3	79424.9	2.98	5.95	
22-2911	OZ	41.6	114.61	0.562	28	27.6	31	34.4	582.4	12.46	25.11	A1
		2236.7	2911.2	14.288	711	134.6	151.4	168.1	79538.7	3.8	7.65	
22-3041	OZ	41.6	119.72	0.812	24	30.8	34.4	37.9	499.3	11.93	24.07	B1
		2236.9	3041	20.638	609	150.5	167.7	185	68179.9	3.64	7.34	
22-3114	OZ	41.6	122.61	0.375	36	23.6	26.8	30	749.4	13.51	27.21	A1
		2238.4	3114.4	9.525	914	115.2	130.9	146.6	102339.8	4.12	8.29	
22-3397	OZ	41.8	133.72	0.375	38	23.1	26.2	29.4	793.5	13.77	27.73	B1
		2245.4	3396.6	9.525	965	112.5	128	143.5	108365.4	4.2	8.45	
22-2670	OZ	41.8	105.1	0.562	24	27.4	31.1	34.9	501.5	11.97	24.13	A2
		2247	2669.6	14.288	609	133.6	151.9	170.2	68487.3	3.65	7.36	
22-3143	OZ	41.8	123.72	0.625	28	28	31.5	34.9	585.4	12.46	25.11	B1
		2248.3	3142.6	15.875	711	136.8	153.6	170.3	79948.1	3.8	7.65	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
23-3244	OZ	41.9	127.72	0.5	31	25.8	29.1	32.4	670.6	12.98	26.16	B1
		2253.2	3244.2	12.7	812	125.9	142.1	158.3	91569.9	3.96	7.97	
23-3053	OZ	42.1	120.21	0.472	30	25.5	29	32.6	631.3	12.75	25.7	B2
		2262.9	3053.4	12	762	124.5	141.8	159	86214.6	3.89	7.83	
23-3155	OZ	42.1	124.21	0.394	34	23.9	27.4	30.8	716.4	13.28	26.75	B2
		2265.8	3155	10	863	116.9	133.6	150.3	97835.1	4.05	8.15	
23-3193	OZ	42.2	125.72	0.562	30	27	30.4	33.8	633.3	12.72	25.64	B1
		2270	3193.4	14.288	762	131.9	148.4	164.8	86487.4	3.88	7.81	
23-2810	OZ	42.5	110.61	0.75	24	30.9	34.4	38	510.3	11.93	24.07	A1
		2286.3	2809.6	19.05	609	150.8	168.2	185.6	69687.8	3.64	7.34	
23-2771	OZ	42.6	109.1	0.472	28	26.1	29.8	33.4	595.9	12.49	25.18	A2
		2288.5	2771.2	12	711	127.6	145.3	162.9	81380.5	3.81	7.67	
23-2873	OZ	42.6	113.1	0.394	31	24.6	28.1	31.6	682.1	13.01	26.23	A2
		2292.1	2872.8	10	812	120	137	154.1	93151.2	3.97	7.99	
23-3104	OZ	42.7	122.21	0.438	31	24.9	28.4	31.9	682.4	13.01	26.23	B2
		2293.1	3104.2	11.112	812	121.7	138.7	155.7	93190.7	3.97	7.99	
23-2453	OZ	42.7	96.59	0.375	30	24.5	27.8	31.1	641.1	10.03	20.06	B3
		2298	2453.4	9.525	762	119.8	135.7	151.6	87553.3	3.06	6.11	
23-2301	OZ	42.8	90.59	0.5	24	27.1	30.5	34	514	9.24	18.49	B3
		2303	2301	12.7	609	132.2	149.1	166.1	70196.1	2.82	5.64	
23-3013	OZ	43.1	118.61	0.472	31	26.1	29.4	32.7	689.3	12.98	26.16	A1
		2316.4	3012.8	12	812	127.2	143.4	159.6	94136.7	3.96	7.97	
23-2822	OZ	43.1	111.1	0.438	30	25.6	29.1	32.7	646.6	12.75	25.7	A2
		2317.6	2822	11.112	762	124.9	142.3	159.6	88302.2	3.89	7.83	
23-3206	OZ	43.3	126.21	0.375	36	23.7	27.1	30.4	780.2	13.54	27.27	B2
		2330.4	3205.8	9.525	914	115.7	132.1	148.6	106543.7	4.13	8.31	
23-3114	OZ	43.4	122.61	0.394	36	24.3	27.5	30.7	780.8	13.51	27.21	A1
		2332.3	3114.4	10	914	118.6	134.3	149.9	106631.8	4.12	8.29	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
23-3092	OZ	43.5	121.72	0.75	26	30.4	33.9	37.4	565.2	12.2	24.59	B1
		2337.3	3091.8	19.05	660	148.5	165.5	182.5	77176.5	3.72	7.49	
23-3295	OZ	43.5	129.72	0.472	34	25.5	28.7	32	739.3	13.24	26.68	B1
		2338.1	3295	12	863	124.4	140.3	156.3	100958.1	4.04	8.13	
23-2901	OZ	43.5	114.21	0.688	24	29.2	32.9	36.6	522.2	11.97	24.13	B2
		2339.8	2901	17.462	609	142.4	160.6	178.8	71317.4	3.65	7.36	
23-3397	OZ	43.6	133.72	0.394	38	23.7	26.9	30.1	827.6	13.77	27.73	B1
		2341.7	3396.6	10	965	115.8	131.3	146.8	113009.8	4.2	8.45	
24-2924	OZ	43.8	115.1	0.375	34	24.3	27.8	31.2	745	13.28	26.75	A2
		2356.2	2923.6	9.525	863	118.8	135.6	152.3	101741.9	4.05	8.15	
24-3053	OZ	43.9	120.21	0.5	30	26.4	29.9	33.4	657.8	12.75	25.7	B2
		2357.6	3053.4	12.7	762	128.7	145.9	163.2	89822.7	3.89	7.83	
24-3064	OZ	43.9	120.61	0.438	34	25.4	28.7	31.9	745.7	13.24	26.68	A1
		2358.2	3063.6	11.112	863	124	140	155.9	101829.2	4.04	8.13	
24-3041	OZ	43.9	119.72	0.875	24	32.3	35.9	39.4	526.6	11.93	24.07	B1
		2359.3	3041	22.225	609	157.7	175	192.3	71911.5	3.64	7.34	
24-2070	OZ	43.9	81.48	0.438	24	26.7	30.2	33.7	527.2	9.24	18.49	A3
		2361.9	2069.6	11.112	609	130.3	147.4	164.4	71989.8	2.82	5.64	
24-3346	OZ	44.2	131.72	0.438	36	24.8	28	31.3	795	13.51	27.21	B1
		2374.6	3345.8	11.112	914	121.1	136.9	152.6	108564.8	4.12	8.29	
24-2771	OZ	44.2	109.1	0.5	28	27	30.6	34.2	619.4	12.49	25.18	A2
		2378.8	2771.2	12.7	711	131.9	149.6	167.2	84589.6	3.81	7.67	
24-2453	OZ	44.3	96.59	0.394	30	25.3	28.5	31.8	663.9	10.03	20.06	B3
		2379.7	2453.4	10	762	123.3	139.3	155.2	90664.9	3.06	6.11	
24-3003	OZ	44.3	118.21	0.562	28	27.5	31.1	34.7	620.4	12.49	25.18	B2
		2382.5	3002.6	14.288	711	134.5	152	169.6	84721.1	3.81	7.67	
24-2171	OZ	44.5	85.48	0.375	28	25.5	28.8	32.2	622.8	9.77	19.54	A3
		2391.6	2171.2	9.525	711	124.6	140.8	157.1	85047.1	2.98	5.95	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
24-2670	OZ	44.6	105.1	0.625	24	29.1	32.8	36.6	534.8	11.97	24.13	A2
		2396	2669.6	15.875	609	142	160.4	178.7	73030.3	3.65	7.36	
24-2403	OZ	44.7	94.59	0.438	28	26.3	29.7	33	625.4	9.77	19.54	B3
		2401.6	2402.6	11.112	711	128.6	144.9	161.1	85400.9	2.98	5.95	
24-3165	OZ	44.8	124.61	0.375	38	24	27.2	30.3	851.6	13.77	27.73	A1
		2409.6	3165.2	9.525	965	117.2	132.6	148	116287.7	4.2	8.45	
24-3447	OZ	44.9	135.72	0.375	40	23.4	26.5	29.7	898.4	14.03	28.25	B1
		2415.1	3447.4	9.525	1016	114.3	129.6	144.9	122688.1	4.28	8.61	
24-2810	OZ	45	110.61	0.812	24	32.5	36.1	39.6	540.4	11.93	24.07	A1
		2421.1	2809.6	20.638	609	158.8	176.1	193.5	73795.2	3.64	7.34	
24-3206	OZ	45	126.21	0.394	36	24.4	27.7	31.1	810.7	13.54	27.27	B2
		2421.6	3205.8	10	914	118.9	135.4	151.8	110713.3	4.13	8.31	
24-3143	OZ	45	123.72	0.688	28	29.8	33.2	36.6	630.7	12.46	25.11	B1
		2422	3142.6	17.462	711	145.3	162	178.7	86127.1	3.8	7.65	
24-3013	OZ	45.1	118.61	0.5	31	27	30.3	33.6	722.1	12.98	26.16	A1
		2426.3	3012.8	12.7	812	131.8	147.9	164.1	98602.9	3.96	7.97	
24-2911	OZ	45.1	114.61	0.625	28	29.4	32.9	36.3	632	12.46	25.11	A1
		2427	2911.2	15.875	711	143.8	160.5	177.3	86302.9	3.8	7.65	
24-3104	OZ	45.2	122.21	0.472	31	26.1	29.6	33	722.9	13.01	26.23	B2
		2429.1	3104.2	12	812	127.3	144.3	161.3	98719.7	3.97	7.99	
24-2924	OZ	45.5	115.1	0.394	34	25	28.5	31.9	773.1	13.28	26.75	A2
		2445.1	2923.6	10	863	122.2	138.9	155.7	105578.6	4.05	8.15	
24-2962	OZ	45.5	116.61	0.562	30	28.3	31.7	35.1	682.8	12.72	25.64	A1
		2447.4	2962	14.288	762	138.4	154.8	171.3	93244.1	3.88	7.81	
24-2822	OZ	45.5	111.1	0.472	30	26.8	30.3	33.9	683.1	12.75	25.7	A2
		2448.4	2822	12	762	130.7	148	165.3	93284.1	3.89	7.83	
24-2504	OZ	45.6	98.59	0.375	31	25	28.2	31.4	729	10.29	20.58	B3
		2449.7	2504.2	9.525	812	122.1	137.7	153.3	99556.4	3.14	6.27	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
25-3295	OZ	45.6	129.72	0.5	34	26.4	29.6	32.9	775.4	13.24	26.68	B1
		2452.1	3295	12.7	863	128.8	144.7	160.7	105883.4	4.04	8.13	
25-3155	OZ	45.7	124.21	0.438	34	25.4	28.9	32.3	777.1	13.28	26.75	B2
		2457.5	3155	11.112	863	124.2	140.9	157.6	106115.6	4.05	8.15	
25-3193	OZ	46	125.72	0.625	30	28.9	32.2	35.6	689.4	12.72	25.64	B1
		2470.9	3193.4	15.875	762	140.9	157.3	173.8	94139.5	3.88	7.81	
25-2171	OZ	46	85.48	0.394	28	26.3	29.6	32.9	643.6	9.77	19.54	A3
		2471.6	2171.2	10	711	128.3	144.6	160.8	87889.7	2.98	5.95	
25-2901	OZ	46	114.21	0.75	24	30.8	34.5	38.2	551.9	11.97	24.13	B2
		2472.5	2901	19.05	609	150.2	168.3	186.5	75362.2	3.65	7.36	
25-2070	OZ	46	81.48	0.472	24	28	31.5	34.9	552	9.24	18.49	A3
		2473.3	2069.6	12	609	136.5	153.6	170.6	75387.1	2.82	5.64	
25-2873	OZ	46.1	113.1	0.438	31	26.1	29.6	33.1	737.4	13.01	26.23	A2
		2477.8	2872.8	11.112	812	127.6	144.6	161.6	100697.1	3.97	7.99	
25-2301	OZ	46.1	90.59	0.562	24	29.1	32.6	36.1	553.3	9.24	18.49	B3
		2478.8	2301	14.288	609	142.1	159.1	176	75554.2	2.82	5.64	
25-3041	OZ	46.1	119.72	0.938	24	33.8	37.3	40.9	553.5	11.93	24.07	B1
		2479.7	3041	23.812	609	165	182.3	199.6	75580.7	3.64	7.34	
25-3244	OZ	46.2	127.72	0.562	31	27.7	31	34.4	738.8	12.98	26.16	B1
		2482.6	3244.2	14.288	812	135.4	151.6	167.8	100894.2	3.96	7.97	
25-3257	OZ	46.3	128.21	0.375	38	24.1	27.4	30.7	879	13.8	27.8	B2
		2487.2	3256.6	9.525	965	117.5	133.7	149.9	120034.6	4.21	8.47	
25-2974	OZ	46.7	117.1	0.375	36	24.7	28.1	31.5	840.9	13.54	27.27	A2
		2511.6	2974.4	9.525	914	120.8	137.3	153.7	114832.5	4.13	8.31	
25-3165	OZ	46.7	124.61	0.394	38	24.7	27.9	31	888.1	13.77	27.73	A1
		2512.9	3165.2	10	965	120.7	136.1	151.5	121271.6	4.2	8.45	
25-3064	OZ	46.8	120.61	0.472	34	26.6	29.9	33.2	795.1	13.24	26.68	A1
		2514.7	3063.6	12	863	130	146	161.9	108583.7	4.04	8.13	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
25-3447	OZ	46.9	135.72	0.394	40	24.1	27.2	30.4	937.6	14.03	28.25	B1
		2520.5	3447.4	10	1016	117.7	133	148.2	128042	4.28	8.61	
25-2860	OZ	47	112.61	0.75	26	32.1	35.5	39	610.9	12.2	24.59	A1
		2526.3	2860.4	19.05	660	156.5	173.6	190.6	83419.9	3.72	7.49	
25-2403	OZ	47.1	94.59	0.472	28	27.6	31	34.3	660	9.77	19.54	B3
		2534.5	2402.6	12	711	134.9	151.1	167.4	90126.6	2.98	5.95	
25-3104	OZ	47.2	122.21	0.5	31	27	30.5	33.9	754.7	13.01	26.23	B2
		2535.8	3104.2	12.7	812	131.7	148.7	165.7	103054.5	3.97	7.99	
25-3346	OZ	47.2	131.72	0.472	36	26	29.2	32.4	849	13.51	27.21	B1
		2535.9	3345.8	12	914	127	142.7	158.4	115940	4.12	8.29	
25-2222	OZ	47.2	87.48	0.375	30	26	29.3	32.5	707.9	10.03	20.06	A3
		2537.3	2222	9.525	762	127.1	143	158.9	96671.1	3.06	6.11	
25-2504	OZ	47.3	98.59	0.394	31	25.8	29	32.2	756.3	10.29	20.58	B3
		2541.2	2504.2	10	812	125.8	141.4	157	103275	3.14	6.27	
25-2670	OZ	47.3	105.1	0.688	24	30.8	34.6	38.3	567.5	11.97	24.13	A2
		2542.6	2669.6	17.462	609	150.5	168.8	187.2	77499.1	3.65	7.36	
26-2822	OZ	47.4	111.1	0.5	30	27.7	31.2	34.8	711.7	12.75	25.7	A2
		2550.9	2822	12.7	762	135.2	152.5	169.8	97188.1	3.89	7.83	
26-3114	OZ	47.4	122.61	0.438	36	25.9	29.1	32.3	854.1	13.51	27.21	A1
		2551	3114.4	11.112	914	126.5	142.1	157.8	116631.1	4.12	8.29	
26-2810	OZ	47.5	110.61	0.875	24	34.1	37.7	41.2	570	11.93	24.07	A1
		2553.6	2809.6	22.225	609	166.7	184	201.4	77834.2	3.64	7.34	
26-2070	OZ	47.6	81.48	0.5	24	29	32.5	35.9	571.5	9.24	18.49	A3
		2560.5	2069.6	12.7	609	141.4	158.5	175.5	78044.6	2.82	5.64	
26-3397	OZ	47.7	133.72	0.438	38	25.3	28.5	31.6	906.8	13.77	27.73	B1
		2566	3396.6	11.112	965	123.4	138.9	154.4	123832.9	4.2	8.45	
26-3003	OZ	47.7	118.21	0.625	28	29.4	33	36.6	668.4	12.49	25.18	B2
		2566.9	3002.6	15.875	711	143.3	160.9	178.5	91279.5	3.81	7.67	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
26-2453	OZ	47.8	96.59	0.438	30	27	30.2	33.5	717	10.03	20.06	B3
		2569.7	2453.4	11.112	762	131.6	147.6	163.5	97907.1	3.06	6.11	
26-3053	OZ	47.8	120.21	0.562	30	28.3	31.8	35.4	717.1	12.75	25.7	B2
		2570.3	3053.4	14.288	762	138.1	155.4	172.6	97930.1	3.89	7.83	
26-2771	OZ	48	109.1	0.562	28	29	32.6	36.2	672.2	12.49	25.18	A2
		2581.4	2771.2	14.288	711	141.6	159.2	176.9	91795.5	3.81	7.67	
26-3257	OZ	48.1	128.21	0.394	38	24.8	28.1	31.4	914.5	13.8	27.8	B2
		2587.6	3256.6	10	965	120.9	137.1	153.3	124878.6	4.21	8.47	
26-3216	OZ	48.2	126.61	0.375	40	24.4	27.5	30.6	963.1	14.03	28.25	A1
		2588.9	3216	9.525	1016	119	134.2	149.4	131515.8	4.28	8.61	
26-3498	OZ	48.2	137.72	0.375	42	23.8	26.9	29.9	1012.5	14.29	28.78	B1
		2592.1	3498.2	9.525	1066	116.1	131.1	146.2	138261.4	4.36	8.77	
26-3143	OZ	48.2	123.72	0.75	28	31.5	34.9	38.3	675.3	12.46	25.11	B1
		2593.3	3142.6	19.05	711	153.7	170.4	187.1	92219.5	3.8	7.65	
26-3041	OZ	48.3	119.72	1	24	35.3	38.8	42.4	579.9	11.93	24.07	B1
		2598	3041	25.4	609	172.2	189.5	206.8	79188.4	3.64	7.34	
26-2901	OZ	48.4	114.21	0.812	24	32.3	36.1	39.8	581	11.97	24.13	B2
		2603	2901	20.638	609	157.9	176	194.2	79340.1	3.65	7.36	
26-3155	OZ	48.5	124.21	0.472	34	26.6	30.1	33.5	825.1	13.28	26.75	B2
		2609.4	3155	12	863	130	146.7	163.5	112674.4	4.05	8.15	
26-2974	OZ	48.5	117.1	0.394	36	25.5	28.8	32.2	873.8	13.54	27.27	A2
		2609.9	2974.4	10	914	124.3	140.8	157.2	119326.5	4.13	8.31	
26-2911	OZ	48.6	114.61	0.688	28	31.3	34.7	38.2	680.8	12.46	25.11	A1
		2614.5	2911.2	17.462	711	152.9	169.7	186.4	92973	3.8	7.65	
26-2555	OZ	48.6	100.59	0.375	34	25.5	28.6	31.7	826.8	10.55	21.11	B3
		2614.7	2555	9.525	863	124.4	139.7	155	112903.8	3.22	6.43	
26-2873	OZ	48.8	113.1	0.472	31	27.4	30.8	34.3	781.1	13.01	26.23	A2
		2624.8	2872.8	12	812	133.6	150.6	167.6	106671.4	3.97	7.99	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
26-2222	OZ	48.9	87.48	0.394	30	26.8	30.1	33.3	733.1	10.03	20.06	A3
		2627.5	2222	10	762	131	146.9	162.8	100106.8	3.06	6.11	
26-3206	OZ	49	126.21	0.438	36	25.9	29.3	32.7	881.9	13.54	27.27	B2
		2634	3205.8	11.112	914	126.6	143	159.5	120427.6	4.13	8.31	
26-3064	OZ	49.1	120.61	0.5	34	27.6	30.9	34.1	833.9	13.24	26.68	A1
		2637.4	3063.6	12.7	863	134.8	150.7	166.6	113881	4.04	8.13	
26-2403	OZ	49.1	94.59	0.5	28	28.6	32	35.3	687.1	9.77	19.54	B3
		2638.6	2402.6	12.7	711	139.8	156.1	172.3	93828	2.98	5.95	
27-2301	OZ	49.3	90.59	0.625	24	31.1	34.6	38.1	591.9	9.24	18.49	B3
		2651.7	2301	15.875	609	151.9	168.9	185.9	80824.9	2.82	5.64	
27-2924	OZ	49.3	115.1	0.438	34	26.6	30.1	33.5	838.6	13.28	26.75	A2
		2652	2923.6	11.112	863	130.1	146.8	163.6	114514.5	4.05	8.15	
27-3307	OZ	49.4	130.21	0.375	40	24.4	27.7	31	987	14.06	28.32	B2
		2653.2	3307.4	9.525	1016	119.3	135.3	151.2	134784.3	4.29	8.63	
27-2171	OZ	49.4	85.48	0.438	28	28.1	31.4	34.7	692	9.77	19.54	A3
		2657.6	2171.2	11.112	711	137.1	153.3	169.5	94502.7	2.98	5.95	
27-3346	OZ	49.5	131.72	0.5	36	26.9	30.2	33.4	891.4	13.51	27.21	B1
		2662.4	3345.8	12.7	914	131.6	147.3	163	121726	4.12	8.29	
27-2962	OZ	49.5	116.61	0.625	30	30.3	33.7	37.1	743.2	12.72	25.64	A1
		2663.9	2962	15.875	762	148	164.5	181	101493.9	3.88	7.81	
27-3193	OZ	49.6	125.72	0.688	30	30.7	34.1	37.4	744.7	12.72	25.64	B1
		2669.1	3193.4	17.462	762	149.8	166.3	182.8	101692.2	3.88	7.81	
27-3013	OZ	49.7	118.61	0.562	31	29.1	32.4	35.7	795.6	12.98	26.16	A1
		2673.3	3012.8	14.288	812	142	158.2	174.3	108643.4	3.96	7.97	
27-3025	OZ	49.8	119.1	0.375	38	25.1	28.4	31.8	946.2	13.8	27.8	A2
		2677.5	3025.2	9.525	965	122.7	138.9	155.1	129216.2	4.21	8.47	
27-2952	OZ	49.9	116.21	0.75	26	31.9	35.5	39.2	648.6	12.23	24.65	B2
		2682.4	2951.8	19.05	660	155.7	173.5	191.4	88571.3	3.73	7.51	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
27-2810	OZ	49.9	110.61	0.938	24	35.7	39.3	42.9	599	11.93	24.07	A1
		2683.9	2809.6	23.812	609	174.5	191.9	209.3	81805.6	3.64	7.34	
27-2670	OZ	50	105.1	0.75	24	32.5	36.3	40.1	599.7	11.97	24.13	A2
		2686.8	2669.6	19.05	609	158.9	177.2	195.6	81894.6	3.65	7.36	
27-2273	OZ	50.2	89.48	0.375	31	26.5	29.7	32.9	803.3	10.29	20.58	A3
		2699.1	2272.8	9.525	812	129.5	145.1	160.6	109692.5	3.14	6.27	
27-3216	OZ	50.3	126.61	0.394	40	25.1	28.2	31.3	1005.1	14.03	28.25	A1
		2701.9	3216	10	1016	122.6	137.8	153	137255	4.28	8.61	
27-3498	OZ	50.3	137.72	0.394	42	24.5	27.6	30.7	1057.3	14.29	28.78	B1
		2706.9	3498.2	10	1066	119.6	134.6	149.7	144386	4.36	8.77	
27-3295	OZ	50.4	129.72	0.562	34	28.4	31.7	34.9	856.5	13.24	26.68	B1
		2708.7	3295	14.288	863	138.7	154.7	170.6	116962	4.04	8.13	
27-3244	OZ	50.4	127.72	0.625	31	29.7	33	36.3	806.3	12.98	26.16	B1
		2709.3	3244.2	15.875	812	144.8	161	177.2	110106.3	3.96	7.97	
27-2555	OZ	50.5	100.59	0.394	34	26.3	29.4	32.5	858.9	10.55	21.11	B3
		2716.4	2555	10	863	128.2	143.5	158.8	117294	3.22	6.43	
27-2453	OZ	50.6	96.59	0.472	30	28.3	31.6	34.8	758.9	10.03	20.06	B3
		2720.1	2453.4	12	762	138.2	154.1	170.1	103637.5	3.06	6.11	
27-3114	OZ	50.7	122.61	0.472	36	27.2	30.4	33.6	912.1	13.51	27.21	A1
		2724.3	3114.4	12	914	132.7	148.4	164.1	124554.3	4.12	8.29	
27-3155	OZ	50.8	124.21	0.5	34	27.6	31	34.4	862.8	13.28	26.75	B2
		2728.5	3155	12.7	863	134.6	151.3	168	117818.3	4.05	8.15	
27-2901	OZ	50.8	114.21	0.875	24	33.9	37.6	41.3	609.6	11.97	24.13	B2
		2731.4	2901	22.225	609	165.5	183.7	201.9	83251.9	3.65	7.36	
27-2873	OZ	51	113.1	0.5	31	28.3	31.8	35.3	815.4	13.01	26.23	A2
		2740	2872.8	12.7	812	138.3	155.3	172.4	111355.4	3.97	7.99	
27-3397	OZ	51	133.72	0.472	38	26.5	29.7	32.9	969.6	13.77	27.73	B1
		2743.7	3396.6	12	965	129.5	145	160.5	132412.4	4.2	8.45	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
27-3003	OZ	51.1	118.21	0.688	28	31.2	34.8	38.4	715.8	12.49	25.18	B2
		2748.8	3002.6	17.462	711	152.2	169.8	187.3	97746.5	3.81	7.67	
28-3165	OZ	51.2	124.61	0.438	38	26.4	29.5	32.7	973.1	13.77	27.73	A1
		2753.5	3165.2	11.112	965	128.8	144.3	159.7	132886.1	4.2	8.45	
28-2504	OZ	51.2	98.59	0.438	31	27.6	30.7	33.9	819.7	10.29	20.58	B3
		2754.2	2504.2	11.112	812	134.5	150.1	165.7	111931.6	3.14	6.27	
28-2070	OZ	51.3	81.48	0.562	24	31.2	34.7	38.2	615.1	9.24	18.49	A3
		2756	2069.6	14.288	609	152.4	169.5	186.5	84001.8	2.82	5.64	
28-3143	OZ	51.4	123.72	0.812	28	33.2	36.6	40	719.3	12.46	25.11	B1
		2762.3	3142.6	20.638	711	162	178.8	195.5	98226.3	3.8	7.65	
28-3307	OZ	51.4	130.21	0.394	40	25.2	28.4	31.7	1027.9	14.06	28.32	B2
		2763.1	3307.4	10	1016	122.8	138.8	154.7	140364.9	4.29	8.63	
28-3447	OZ	51.5	135.72	0.438	40	25.7	28.9	32	1029	14.03	28.25	B1
		2766.2	3447.4	11.112	1016	125.7	140.9	156.2	140521.2	4.28	8.61	
28-3104	OZ	51.6	122.21	0.562	31	29	32.5	36	826	13.01	26.23	B2
		2775.6	3104.2	14.288	812	141.6	158.6	175.6	112799.3	3.97	7.99	
28-3267	OZ	51.6	128.61	0.375	42	24.7	27.8	30.9	1084.2	14.29	28.78	A1
		2775.7	3266.8	9.525	1066	120.8	135.8	150.7	148055	4.36	8.77	
28-3549	OZ	51.6	139.72	0.375	43	24.1	27.2	30.2	1135.9	14.55	29.3	B1
		2775.8	3549	9.525	1117	117.8	132.6	147.4	155113.8	4.44	8.93	
28-3053	OZ	51.7	120.21	0.625	30	30.2	33.7	37.3	775.7	12.75	25.7	B2
		2780.4	3053.4	15.875	762	147.5	164.7	182	105933	3.89	7.83	
28-2822	OZ	51.7	111.1	0.562	30	29.8	33.3	36.9	775.9	12.75	25.7	A2
		2781.1	2822	14.288	762	145.4	162.7	180	105960.2	3.89	7.83	
28-2771	OZ	51.7	109.1	0.625	28	31	34.6	38.2	724.2	12.49	25.18	A2
		2781.3	2771.2	15.875	711	151.2	168.8	186.5	98901.5	3.81	7.67	
28-3025	OZ	51.8	119.1	0.394	38	25.9	29.2	32.5	984.4	13.8	27.8	A2
		2785.6	3025.2	10	965	126.4	142.6	158.7	134430.7	4.21	8.47	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
28-2606	OZ	51.9	102.59	0.375	36	25.9	29	32.1	934.6	10.81	21.63	B3
		2791.5	2605.8	9.525	914	126.5	141.5	156.5	127628.4	3.3	6.59	
28-2911	OZ	52.1	114.61	0.75	28	33.2	36.6	40	729	12.46	25.11	A1
		2799.5	2911.2	19.05	711	162	178.7	195.5	99549.7	3.8	7.65	
28-2273	OZ	52.1	89.48	0.394	31	27.4	30.5	33.7	833.3	10.29	20.58	A3
		2799.9	2272.8	10	812	133.6	149.1	164.6	113789.7	3.14	6.27	
28-3206	OZ	52.1	126.21	0.472	36	27.2	30.5	33.9	938.2	13.54	27.27	B2
		2802.4	3205.8	12	914	132.7	149.1	165.6	128124.9	4.13	8.31	
28-2171	OZ	52.2	85.48	0.472	28	29.5	32.8	36.1	730.3	9.77	19.54	A3
		2804.6	2171.2	12	711	144	160.2	176.5	99732	2.98	5.95	
28-2810	OZ	52.3	110.61	1	24	37.3	40.9	44.5	627.6	11.93	24.07	A1
		2812	2809.6	25.4	609	182.3	199.7	217.1	85710.4	3.64	7.34	
28-2924	OZ	52.4	115.1	0.472	34	27.9	31.4	34.8	890.4	13.28	26.75	A2
		2815.9	2923.6	12	863	136.4	153.1	169.9	121592.5	4.05	8.15	
28-3257	OZ	52.5	128.21	0.438	38	26.4	29.7	33	997.1	13.8	27.8	B2
		2821.5	3256.6	11.112	965	128.9	145.1	161.3	136167.1	4.21	8.47	
28-2301	OZ	52.5	90.59	0.688	24	33.1	36.6	40.1	629.8	9.24	18.49	B3
		2821.8	2301	17.462	609	161.7	178.7	195.7	86009.6	2.82	5.64	
28-3358	OZ	52.6	132.21	0.375	42	24.8	28	31.2	1104.5	14.32	28.84	B2
		2827.6	3358.2	9.525	1066	121.1	136.8	152.5	150823.9	4.37	8.79	
28-2670	OZ	52.6	105.1	0.812	24	34.3	38	41.8	631.4	11.97	24.13	A2
		2828.7	2669.6	20.638	609	167.3	185.6	203.9	86217.3	3.65	7.36	
28-2222	OZ	52.8	87.48	0.438	30	28.7	32	35.2	791.6	10.03	20.06	A3
		2837.4	2222	11.112	762	140.2	156.1	171.9	108103.2	3.06	6.11	
28-2453	OZ	52.8	96.59	0.5	30	29.4	32.6	35.9	791.8	10.03	20.06	B3
		2838	2453.4	12.7	762	143.4	159.3	175.2	108128	3.06	6.11	
28-2974	OZ	52.8	117.1	0.438	36	27.2	30.5	33.9	950.5	13.54	27.27	A2
		2838.9	2974.4	11.112	914	132.6	149	165.5	129796.5	4.13	8.31	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
29-3076	OZ	53.1	121.1	0.375	40	25.5	28.8	32	1061.3	14.06	28.32	A2
		2852.8	3076	9.525	1016	124.6	140.5	156.4	144923.8	4.29	8.63	
29-2901	OZ	53.2	114.21	0.938	24	35.5	39.2	42.9	637.8	11.97	24.13	B2
		2857.6	2901	23.812	609	173.1	191.3	209.5	87098.1	3.65	7.36	
29-3114	OZ	53.2	122.61	0.5	36	28.2	31.4	34.6	957.6	13.51	27.21	A1
		2860.2	3114.4	12.7	914	137.7	153.3	169	130770.3	4.12	8.29	
29-3193	OZ	53.3	125.72	0.75	30	32.5	35.9	39.3	799.3	12.72	25.64	B1
		2864.7	3193.4	19.05	762	158.7	175.2	191.6	109146.3	3.88	7.81	
29-2403	OZ	53.4	94.59	0.562	28	30.9	34.3	37.6	748	9.77	19.54	B3
		2872.3	2402.6	14.288	711	151	167.2	183.5	102139.4	2.98	5.95	
29-2324	OZ	53.5	91.48	0.375	34	27	30.1	33.2	909.1	10.55	21.11	A3
		2875.1	2323.6	9.525	863	131.8	147	162.2	124147.5	3.22	6.43	
29-2962	OZ	53.5	116.61	0.688	30	32.3	35.7	39	802.9	12.72	25.64	A1
		2877.6	2962	17.462	762	157.7	174.1	190.6	109636.7	3.88	7.81	
29-3397	OZ	53.6	133.72	0.5	38	27.5	30.7	33.8	1018.9	13.77	27.73	B1
		2883.2	3396.6	12.7	965	134.3	149.8	165.2	139145	4.2	8.45	
29-3267	OZ	53.9	128.61	0.394	42	25.5	28.6	31.6	1132.2	14.29	28.78	A1
		2898.6	3266.8	10	1066	124.6	139.5	154.4	154613.4	4.36	8.77	
29-3549	OZ	53.9	139.72	0.394	43	24.9	27.9	30.9	1186.8	14.55	29.3	B1
		2900.4	3549	10	1117	121.4	136.2	151.1	162073	4.44	8.93	
29-2606	OZ	54	102.59	0.394	36	26.7	29.8	32.9	972.2	10.81	21.63	B3
		2903.7	2605.8	10	914	130.6	145.5	160.5	132758.2	3.3	6.59	
29-2720	OZ	54.1	107.1	0.75	26	33.7	37.4	41.1	703.8	12.23	24.65	A2
		2910.5	2720.4	19.05	660	164.7	182.7	200.7	96105.3	3.73	7.51	
29-3064	OZ	54.2	120.61	0.562	34	29.8	33.1	36.3	921.2	13.24	26.68	A1
		2913.3	3063.6	14.288	863	145.5	161.4	177.3	125796.4	4.04	8.13	
29-3013	OZ	54.3	118.61	0.625	31	31.2	34.5	37.8	868.2	12.98	26.16	A1
		2917.4	3012.8	15.875	812	152.1	168.3	184.5	118563.1	3.96	7.97	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
29-2171	OZ	54.3	85.48	0.5	28	30.6	33.9	37.3	760.3	9.77	19.54	A3
		2919.8	2171.2	12.7	711	149.5	165.7	181.9	103827.9	2.98	5.95	
29-2504	OZ	54.4	98.59	0.472	31	29	32.2	35.4	869.8	10.29	20.58	B3
		2922.9	2504.2	12	812	141.4	157	172.6	118785.3	3.14	6.27	
29-3003	OZ	54.5	118.21	0.75	28	33	36.6	40.2	762.5	12.49	25.18	B2
		2928.1	3002.6	19.05	711	161	178.5	196.1	104123	3.81	7.67	
29-3143	OZ	54.5	123.72	0.875	28	34.9	38.3	41.7	762.7	12.46	25.11	B1
		2928.8	3142.6	22.225	711	170.4	187.1	203.8	104148.5	3.8	7.65	
29-3244	OZ	54.6	127.72	0.688	31	31.6	34.9	38.2	872.9	12.98	26.16	B1
		2933.2	3244.2	17.462	812	154.2	170.4	186.6	119206.6	3.96	7.97	
29-3206	OZ	54.6	126.21	0.5	36	28.2	31.5	34.9	982.5	13.54	27.27	B2
		2934.5	3205.8	12.7	914	137.4	153.9	170.3	134163.6	4.13	8.31	
29-3165	OZ	54.8	124.61	0.472	38	27.7	30.9	34	1040.5	13.77	27.73	A1
		2944.3	3165.2	12	965	135.4	150.8	166.2	142092.7	4.2	8.45	
29-2924	OZ	54.8	115.1	0.5	34	29	32.4	35.8	931.1	13.28	26.75	A2
		2944.5	2923.6	12.7	863	141.4	158.1	174.8	127143.5	4.05	8.15	
29-3358	OZ	54.8	132.21	0.394	42	25.5	28.8	32	1151.2	14.32	28.84	B2
		2947.2	3358.2	10	1066	124.7	140.4	156.1	157203.8	4.37	8.79	
29-3346	OZ	54.8	131.72	0.562	36	29.1	32.3	35.5	986.7	13.51	27.21	B1
		2947.2	3345.8	14.288	914	141.9	157.7	173.4	134747.4	4.12	8.29	
29-2070	OZ	54.8	81.48	0.625	24	33.5	37	40.4	658	9.24	18.49	A3
		2948.2	2069.6	15.875	609	163.4	180.4	197.5	89861.9	2.82	5.64	
30-2555	OZ	54.9	100.59	0.438	34	28.1	31.3	34.4	933.8	10.55	21.11	B3
		2953.2	2555	11.112	863	137.3	152.6	167.9	127519.1	3.22	6.43	
30-3447	OZ	55.1	135.72	0.472	40	27	30.2	33.3	1101.5	14.03	28.25	B1
		2961	3447.4	12	1016	132	147.2	162.5	150416.8	4.28	8.61	
30-3295	OZ	55.1	129.72	0.625	34	30.4	33.7	37	936.7	13.24	26.68	B1
		2962.4	3295	15.875	863	148.6	164.6	180.5	127915.3	4.04	8.13	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
30-3216	OZ	55.2	126.61	0.438	40	26.9	30	33.1	1103.1	14.03	28.25	A1
		2965.2	3216	11.112	1016	131.1	146.3	161.5	150632.1	4.28	8.61	
30-2670	OZ	55.2	105.1	0.875	24	36	39.7	43.5	662.5	11.97	24.13	A2
		2968.1	2669.6	22.225	609	175.6	193.9	212.2	90468.1	3.65	7.36	
30-3318	OZ	55.2	130.61	0.375	43	25.1	28.1	31.1	1215.1	14.55	29.3	A1
		2969.5	3317.6	9.525	1117	122.6	137.3	152	165932.9	4.44	8.93	
30-3076	OZ	55.3	121.1	0.394	40	26.3	29.5	32.8	1105.2	14.06	28.32	A2
		2970.9	3076	10	1016	128.4	144.3	160.2	150924.2	4.29	8.63	
30-3498	OZ	55.3	137.72	0.438	42	26.2	29.3	32.3	1161.9	14.29	28.78	B1
		2974.6	3498.2	11.112	1066	127.8	142.8	157.9	158665.9	4.36	8.77	
30-2771	OZ	55.4	109.1	0.688	28	32.9	36.5	40.2	775.6	12.49	25.18	A2
		2978.3	2771.2	17.462	711	160.8	178.4	196.1	105908.5	3.81	7.67	
30-2657	OZ	55.4	104.59	0.375	38	26.3	29.4	32.4	1052.8	11.08	22.15	B3
		2978.9	2656.6	9.525	965	128.6	143.3	158	143763.2	3.38	6.75	
30-2901	OZ	55.5	114.21	1	24	37	40.7	44.5	665.5	11.97	24.13	B2
		2981.6	2901	25.4	609	180.7	198.9	217	90879.9	3.65	7.36	
30-2911	OZ	55.5	114.61	0.812	28	35	38.5	41.9	776.5	12.46	25.11	A1
		2981.8	2911.2	20.638	711	171	187.8	204.5	106033.9	3.8	7.65	
30-2324	OZ	55.6	91.48	0.394	34	27.9	31	34.1	944.5	10.55	21.11	A3
		2986.9	2323.6	10	863	136.1	151.3	166.4	128975	3.22	6.43	
30-3053	OZ	55.6	120.21	0.688	30	32.1	35.7	39.2	833.6	12.75	25.7	B2
		2987.7	3053.4	17.462	762	156.8	174.1	191.4	113832	3.89	7.83	
30-2301	OZ	55.6	90.59	0.75	24	35.1	38.6	42.1	667.2	9.24	18.49	B3
		2989.1	2301	19.05	609	171.5	188.5	205.4	91109.2	2.82	5.64	
30-3155	OZ	55.7	124.21	0.562	34	29.7	33.1	36.5	947.5	13.28	26.75	B2
		2996.5	3155	14.288	863	145	161.7	178.4	129388.5	4.05	8.15	
30-2873	OZ	55.8	113.1	0.562	31	30.5	34	37.5	892.5	13.01	26.23	A2
		2999.1	2872.8	14.288	812	149	166.1	183.1	121885.2	3.97	7.99	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
30-2222	OZ	55.9	87.48	0.472	30	30.2	33.5	36.7	838	10.03	20.06	A3
		3003.4	2222	12	762	147.5	163.3	179.2	114430.3	3.06	6.11	
30-3257	OZ	55.9	128.21	0.472	38	27.7	31	34.3	1062.7	13.8	27.8	B2
		3006.9	3256.6	12	965	135.2	151.4	167.6	145115.4	4.21	8.47	
30-2822	OZ	56	111.1	0.625	30	31.9	35.4	39	839.3	12.75	25.7	A2
		3008.4	2822	15.875	762	155.5	172.9	190.2	114619.3	3.89	7.83	
30-3409	OZ	56	134.21	0.375	43	25.1	28.3	31.5	1231.6	14.59	29.37	B2
		3009.7	3409	9.525	1117	122.8	138.2	153.7	168181.2	4.45	8.95	
30-3104	OZ	56	122.21	0.625	31	31	34.5	38	896.5	13.01	26.23	B2
		3012.5	3104.2	15.875	812	151.5	168.5	185.4	122426.9	3.97	7.99	
30-3307	OZ	56.2	130.21	0.438	40	26.9	30.1	33.4	1123.1	14.06	28.32	B2
		3019.1	3307.4	11.112	1016	131.1	147	163	153372.3	4.29	8.63	
30-2974	OZ	56.2	117.1	0.472	36	28.5	31.9	35.2	1011.2	13.54	27.27	A2
		3020.4	2974.4	12	914	139.1	155.6	172	138092.6	4.13	8.31	
30-2273	OZ	56.4	89.48	0.438	31	29.3	32.5	35.7	903.1	10.29	20.58	A3
		3034.6	2272.8	11.112	812	143.2	158.7	174.2	123327.7	3.14	6.27	
30-3127	OZ	56.5	123.1	0.375	42	25.9	29.1	32.3	1186.2	14.32	28.84	A2
		3036.9	3126.8	9.525	1066	126.4	142	157.7	161985.6	4.37	8.79	
30-3025	OZ	56.5	119.1	0.438	38	27.6	31	34.3	1073.4	13.8	27.8	A2
		3037.4	3025.2	11.112	965	134.9	151.1	167.3	146582.6	4.21	8.47	
31-2504	OZ	56.8	98.59	0.5	31	30.1	33.3	36.5	909.2	10.29	20.58	B3
		3055.1	2504.2	12.7	812	146.9	162.5	178	124158.7	3.14	6.27	
31-3193	OZ	56.9	125.72	0.812	30	34.3	37.7	41.1	853.1	12.72	25.64	B1
		3057.8	3193.4	20.638	762	167.6	184	200.5	116503.4	3.88	7.81	
31-2374	OZ	57	93.48	0.375	36	27.5	30.5	33.5	1025.7	10.81	21.63	A3
		3063.6	2374.4	9.525	914	134.1	148.9	163.7	140066.6	3.3	6.59	
31-2962	OZ	57.4	116.61	0.75	30	34.3	37.6	41	861.7	12.72	25.64	A1
		3088.5	2962	19.05	762	167.2	183.7	200.2	117673.2	3.88	7.81	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
31-3143	OZ	57.5	123.72	0.938	28	36.6	40	43.4	805.4	12.46	25.11	B1
		3093	3142.6	23.812	711	178.7	195.4	212.1	109986.6	3.8	7.65	
31-3165	OZ	57.5	124.61	0.5	38	28.8	31.9	35.1	1093.4	13.77	27.73	A1
		3094	3165.2	12.7	965	140.5	155.9	171.3	149317.6	4.2	8.45	
31-2657	OZ	57.7	104.59	0.394	38	27.2	30.2	33.2	1096.2	11.08	22.15	B3
		3102	2656.6	10	965	132.8	147.5	162.2	149701.2	3.38	6.75	
31-3318	OZ	57.7	130.61	0.394	43	25.9	28.9	31.9	1269.6	14.55	29.3	A1
		3102.7	3317.6	10	1117	126.4	141.1	155.9	173377.4	4.44	8.93	
31-2403	OZ	57.7	94.59	0.625	28	33.2	36.5	39.9	808	9.77	19.54	B3
		3102.8	2402.6	15.875	711	162.1	178.3	194.6	110335.6	2.98	5.95	
31-2453	OZ	57.7	96.59	0.562	30	31.8	35	38.3	865.7	10.03	20.06	B3
		3102.8	2453.4	14.288	762	155.1	171.1	187	118218.1	3.06	6.11	
31-3003	OZ	57.8	118.21	0.812	28	34.8	38.4	42	808.5	12.49	25.18	B2
		3104.9	3002.6	20.638	711	169.7	187.3	204.9	110409.9	3.81	7.67	
31-2670	OZ	57.8	105.1	0.938	24	37.7	41.4	45.2	693.1	11.97	24.13	A2
		3105.2	2669.6	23.812	609	183.8	202.2	220.5	94647.8	3.65	7.36	
31-3447	OZ	57.9	135.72	0.5	40	28	31.2	34.3	1158.4	14.03	28.25	B1
		3113.9	3447.4	12.7	1016	136.9	152.2	167.4	158184.1	4.28	8.61	
31-2222	OZ	58.3	87.48	0.5	30	31.4	34.6	37.9	874.3	10.03	20.06	A3
		3133.6	2222	12.7	762	153.2	169.1	184.9	119388.5	3.06	6.11	
31-2070	OZ	58.4	81.48	0.688	24	35.7	39.2	42.7	700.3	9.24	18.49	A3
		3137.3	2069.6	17.462	609	174.3	191.3	208.4	95626.3	2.82	5.64	
31-3409	OZ	58.4	134.21	0.394	43	25.9	29.1	32.3	1284.6	14.59	29.37	B2
		3139.3	3409	10	1117	126.5	142	157.5	175426.1	4.45	8.95	
31-2555	OZ	58.4	100.59	0.472	34	29.6	32.7	35.9	993.1	10.55	21.11	B3
		3140.8	2555	12	863	144.5	159.8	175.1	135618.1	3.22	6.43	
32-3257	OZ	58.6	128.21	0.5	38	28.7	32	35.3	1114.1	13.8	27.8	B2
		3152.5	3256.6	12.7	965	140.2	156.4	172.6	152137.4	4.21	8.47	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
32-2301	OZ	58.7	90.59	0.812	24	37.1	40.6	44.1	703.9	9.24	18.49	B3
		3153.7	2301	20.638	609	181.2	198.2	215.1	96124.4	2.82	5.64	
32-3244	OZ	58.7	127.72	0.75	31	33.5	36.8	40.1	938.8	12.98	26.16	B1
		3154.4	3244.2	19.05	812	163.6	179.8	196	128195.8	3.96	7.97	
32-3013	OZ	58.7	118.61	0.688	31	33.2	36.5	39.9	940	12.98	26.16	A1
		3158.5	3012.8	17.462	812	162.3	178.5	194.6	128362.3	3.96	7.97	
32-2911	OZ	58.8	114.61	0.875	28	36.9	40.3	43.7	823.3	12.46	25.11	A1
		3161.6	2911.2	22.225	711	180	196.7	213.5	112426.8	3.8	7.65	
32-3651	OZ	58.8	143.72	0.375	48	24.8	27.7	30.7	1411.6	15.08	30.35	B1
		3162.2	3650.6	9.525	1219	121.1	135.5	149.9	192766.7	4.6	9.25	
32-2974	OZ	58.8	117.1	0.5	36	29.6	32.9	36.3	1058.9	13.54	27.27	A2
		3162.8	2974.4	12.7	914	144.3	160.7	177.2	144601.2	4.13	8.31	
32-2606	OZ	58.9	102.59	0.438	36	28.7	31.7	34.8	1059.7	10.81	21.63	B3
		3165.1	2605.8	11.112	914	140	154.9	169.9	144709.2	3.3	6.59	
32-3127	OZ	58.9	123.1	0.394	42	26.7	29.9	33.1	1236.4	14.32	28.84	A2
		3165.3	3126.8	10	1066	130.3	145.9	161.6	168837.7	4.37	8.79	
32-3114	OZ	58.9	122.61	0.562	36	30.5	33.7	36.9	1060	13.51	27.21	A1
		3166.2	3114.4	14.288	914	148.8	164.5	180.2	144759.2	4.12	8.29	
32-2771	OZ	59	109.1	0.75	28	34.9	38.5	42.1	826.1	12.49	25.18	A2
		3172.6	2771.2	19.05	711	170.3	188	205.6	112817.4	3.81	7.67	
32-3216	OZ	59	126.61	0.472	40	28.2	31.3	34.5	1180.7	14.03	28.25	A1
		3174	3216	12	1016	137.9	153.1	168.2	161239.7	4.28	8.61	
32-2707	OZ	59.1	106.59	0.375	40	26.7	29.7	32.7	1181.4	11.34	22.68	B3
		3175.9	2707.4	9.525	1016	130.6	145	159.5	161336.4	3.46	6.91	
32-2171	OZ	59.1	85.48	0.562	28	33.1	36.5	39.8	827.7	9.77	19.54	A3
		3178.4	2171.2	14.288	711	161.8	178	194.3	113025.1	2.98	5.95	
32-3267	OZ	59.2	128.61	0.438	42	27.3	30.4	33.4	1244.2	14.29	28.78	A1
		3185.3	3266.8	11.112	1066	133.4	148.3	163.2	169904.8	4.36	8.77	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
32-3064	OZ	59.3	120.61	0.625	34	32	35.2	38.5	1007.5	13.24	26.68	A1
		3186.1	3063.6	15.875	863	156.1	172	187.9	137577	4.04	8.13	
32-2374	OZ	59.3	93.48	0.394	36	28.4	31.4	34.4	1066.9	10.81	21.63	A3
		3186.7	2374.4	10	914	138.5	153.3	168.2	145696.3	3.3	6.59	
32-3498	OZ	59.3	137.72	0.472	42	27.5	30.6	33.7	1244.8	14.29	28.78	B1
		3187	3498.2	12	1066	134.3	149.4	164.4	169992.3	4.36	8.77	
32-3549	OZ	59.3	139.72	0.438	43	26.6	29.6	32.7	1305.7	14.55	29.3	B1
		3190.8	3549	11.112	1117	129.9	144.7	159.5	178300.9	4.44	8.93	
32-3053	OZ	59.4	120.21	0.75	30	34	37.6	41.1	890.7	12.75	25.7	B2
		3192.3	3053.4	19.05	762	166.1	183.4	200.7	121627.9	3.89	7.83	
32-3397	OZ	59.5	133.72	0.562	38	29.7	32.9	36.1	1129.9	13.77	27.73	B1
		3197.3	3396.6	14.288	965	145.1	160.6	176.1	154302.8	4.2	8.45	
32-3295	OZ	59.8	129.72	0.688	34	32.5	35.7	39	1016	13.24	26.68	B1
		3213.2	3295	17.462	863	158.5	174.4	190.4	138743.8	4.04	8.13	
32-2273	OZ	59.9	89.48	0.472	31	30.9	34.1	37.2	958.4	10.29	20.58	A3
		3220.5	2272.8	12	812	150.8	166.3	181.8	130879.2	3.14	6.27	
32-3307	OZ	59.9	130.21	0.472	40	28.2	31.5	34.7	1198.7	14.06	28.32	B2
		3222.2	3307.4	12	1016	137.7	153.6	169.6	163686.8	4.29	8.63	
32-3358	OZ	60	132.21	0.438	42	27.3	30.5	33.7	1260.1	14.32	28.84	B2
		3226.1	3358.2	11.112	1066	133.3	149	164.7	172079	4.37	8.79	
32-3178	OZ	60.1	125.1	0.375	43	26.2	29.4	32.5	1321.3	14.59	29.37	A2
		3228.9	3177.6	9.525	1117	128.1	143.5	158.9	180428.5	4.45	8.95	
32-3346	OZ	60.1	131.72	0.625	36	31.2	34.4	37.6	1081.1	13.51	27.21	B1
		3229	3345.8	15.875	914	152.3	168	183.7	147629.3	4.12	8.29	
32-3206	OZ	60.1	126.21	0.562	36	30.4	33.7	37.1	1082	13.54	27.27	B2
		3231.7	3205.8	14.288	914	148.3	164.7	181.2	147753.7	4.13	8.31	
32-2822	OZ	60.1	111.1	0.688	30	33.9	37.5	41	901.9	12.75	25.7	A2
		3232.7	2822	17.462	762	165.6	183	200.3	123166.1	3.89	7.83	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
32-2924	OZ	60.1	115.1	0.562	34	31.2	34.7	38.1	1022.5	13.28	26.75	A2
		3233.7	2923.6	14.288	863	152.6	169.3	186	139629.5	4.05	8.15	
32-3025	OZ	60.2	119.1	0.472	38	29	32.3	35.7	1143.9	13.8	27.8	A2
		3237	3025.2	12	965	141.8	157.9	174.1	156215.4	4.21	8.47	
32-2670	OZ	60.3	105.1	1	24	39.3	43.1	46.8	723.2	11.97	24.13	A2
		3240.1	2669.6	25.4	609	192.1	210.4	228.7	98757.4	3.65	7.36	
32-3076	OZ	60.4	121.1	0.438	40	28.1	31.4	34.6	1207.6	14.06	28.32	A2
		3246.3	3076	11.112	1016	137.2	153.1	169.1	164910.2	4.29	8.63	
32-3104	OZ	60.4	122.21	0.688	31	33	36.5	40	966.2	13.01	26.23	B2
		3246.5	3104.2	17.462	812	161.3	178.3	195.3	131937.6	3.97	7.99	
32-2324	OZ	60.4	91.48	0.438	34	29.9	33	36.1	1026.8	10.55	21.11	A3
		3247.3	2323.6	11.112	863	146	161.2	176.4	140218.3	3.22	6.43	
32-3193	OZ	60.4	125.72	0.875	30	36.1	39.5	42.9	906.3	12.72	25.64	B1
		3248.4	3193.4	22.225	762	176.4	192.8	209.3	123763.7	3.88	7.81	
33-2352	OZ	60.5	92.59	0.75	26	36.4	39.8	43.2	786.1	9.51	19.01	B3
		3251	2351.8	19.05	660	177.9	194.5	211.2	107348.2	2.9	5.79	
33-3143	OZ	60.5	123.72	1	28	38.3	41.7	45.1	847.6	12.46	25.11	B1
		3254.8	3142.6	25.4	711	186.9	203.6	220.4	115741.4	3.8	7.65	
33-2873	OZ	60.5	113.1	0.625	31	32.7	36.2	39.7	968.7	13.01	26.23	A2
		3255.1	2872.8	15.875	812	159.7	176.7	193.8	132288.3	3.97	7.99	
33-3155	OZ	60.7	124.21	0.625	34	31.8	35.2	38.7	1031.3	13.28	26.75	B2
		3261.4	3155	15.875	863	155.3	172.1	188.8	140827.8	4.05	8.15	
33-2425	OZ	60.7	95.48	0.375	38	27.9	30.9	33.8	1153.2	11.08	22.15	A3
		3263.2	2425.2	9.525	965	136.2	150.7	165.2	157480.3	3.38	6.75	
33-3003	OZ	61	118.21	0.875	28	36.6	40.1	43.7	853.9	12.49	25.18	B2
		3279.2	3002.6	22.225	711	178.5	196	213.6	116608.2	3.81	7.67	
33-2555	OZ	61.2	100.59	0.5	34	30.8	33.9	37	1039.6	10.55	21.11	B3
		3287.9	2555	12.7	863	150.2	165.4	180.7	141969.9	3.22	6.43	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
33-2962	OZ	61.3	116.61	0.812	30	36.2	39.6	43	919.8	12.72	25.64	A1
		3296.7	2962	20.638	762	176.8	193.3	209.7	125605	3.88	7.81	
33-3651	OZ	61.5	143.72	0.394	48	25.6	28.5	31.5	1476.2	15.08	30.35	B1
		3306.9	3650.6	10	1219	124.9	139.3	153.7	201589	4.6	9.25	
33-2707	OZ	61.6	106.59	0.394	40	27.6	30.6	33.5	1231.4	11.34	22.68	B3
		3310.1	2707.4	10	1016	134.9	149.3	163.8	168153.7	3.46	6.91	
33-2301	OZ	61.7	90.59	0.875	24	39.1	42.6	46	740	9.24	18.49	B3
		3315.5	2301	22.225	609	190.8	207.8	224.8	101056.1	2.82	5.64	
33-2070	OZ	61.8	81.48	0.75	24	37.9	41.4	44.9	741.8	9.24	18.49	A3
		3323.4	2069.6	19.05	609	185.1	202.2	219.2	101296	2.82	5.64	
33-2403	OZ	61.9	94.59	0.688	28	35.5	38.8	42.1	867.2	9.77	19.54	B3
		3330.1	2402.6	17.462	711	173.1	189.4	205.6	118417.6	2.98	5.95	
33-3216	OZ	62.1	126.61	0.5	40	29.3	32.4	35.5	1241.7	14.03	28.25	A1
		3337.9	3216	12.7	1016	143.2	158.4	173.6	169565.9	4.28	8.61	
33-2911	OZ	62.1	114.61	0.938	28	38.7	42.1	45.6	869.4	12.46	25.11	A1
		3338.8	2911.2	23.812	711	188.9	205.7	222.4	118729	3.8	7.65	
34-2504	OZ	62.4	98.59	0.562	31	32.6	35.8	39	997.7	10.29	20.58	B3
		3352.3	2504.2	14.288	812	159.1	174.7	190.3	136238.4	3.14	6.27	
34-3498	OZ	62.4	137.72	0.5	42	28.6	31.6	34.7	1309.9	14.29	28.78	B1
		3353.7	3498.2	12.7	1066	139.5	154.5	169.5	178885.1	4.36	8.77	
34-3701	OZ	62.6	145.72	0.375	50	25.1	28	30.9	1564.3	15.34	30.87	B1
		3364.1	3701.4	9.525	1270	122.6	136.8	151	213617.5	4.67	9.41	
34-2771	OZ	62.6	109.1	0.812	28	36.8	40.4	44.1	876	12.49	25.18	A2
		3364.2	2771.2	20.638	711	179.8	197.4	215.1	119629.3	3.81	7.67	
34-2453	OZ	62.6	96.59	0.625	30	34.2	37.4	40.7	938.6	10.03	20.06	B3
		3364.3	2453.4	15.875	762	166.8	182.7	198.7	128178.1	3.06	6.11	
34-2273	OZ	62.6	89.48	0.5	31	32.1	35.3	38.5	1001.8	10.29	20.58	A3
		3366.1	2272.8	12.7	812	156.8	172.3	187.8	136799.6	3.14	6.27	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
34-3178	OZ	62.6	125.1	0.394	43	27.1	30.2	33.4	1378.2	14.59	29.37	A2
		3368	3177.6	10	1117	132.2	147.5	162.9	188201.1	4.45	8.95	
34-2606	OZ	62.7	102.59	0.472	36	30.2	33.3	36.3	1129	10.81	21.63	B3
		3372.2	2605.8	12	914	147.4	162.4	177.4	154178.8	3.3	6.59	
34-3244	OZ	62.7	127.72	0.812	31	35.4	38.7	42.1	1003.8	12.98	26.16	B1
		3372.9	3244.2	20.638	812	172.9	189.1	205.3	137075.7	3.96	7.97	
34-3419	OZ	62.8	134.61	0.375	48	25.8	28.7	31.6	1507.1	15.08	30.35	A1
		3376.2	3419.2	9.525	1219	125.9	140.2	154.4	205812.5	4.6	9.25	
34-3307	OZ	62.9	130.21	0.5	40	29.3	32.5	35.8	1257.9	14.06	28.32	B2
		3381.6	3307.4	12.7	1016	142.8	158.8	174.7	171782.9	4.29	8.63	
34-2758	OZ	62.9	108.59	0.375	42	27.1	30	32.9	1320.9	11.6	23.2	B3
		3381.6	2758.2	9.525	1066	132.5	146.7	160.8	180376	3.54	7.07	
34-2657	OZ	63	104.59	0.438	38	29.2	32.2	35.2	1197.6	11.08	22.15	B3
		3388.7	2656.6	11.112	965	142.5	157.2	171.9	163539.2	3.38	6.75	
34-3025	OZ	63.1	119.1	0.5	38	30.1	33.4	36.8	1199.3	13.8	27.8	A2
		3393.6	3025.2	12.7	965	147.1	163.3	179.5	163774.5	4.21	8.47	
34-3053	OZ	63.1	120.21	0.812	30	35.9	39.5	43	947	12.75	25.7	B2
		3394.3	3053.4	20.638	762	175.4	192.7	209.9	129322.3	3.89	7.83	
34-3511	OZ	63.1	138.21	0.375	48	25.8	28.9	32	1515.5	15.11	30.41	B2
		3395	3510.6	9.525	1219	126	141	156	206957.4	4.61	9.27	
34-3013	OZ	63.2	118.61	0.75	31	35.3	38.6	41.9	1010.9	12.98	26.16	A1
		3396.7	3012.8	19.05	812	172.3	188.5	204.7	138042	3.96	7.97	
34-2425	OZ	63.2	95.48	0.394	38	28.8	31.8	34.8	1200.8	11.08	22.15	A3
		3397.9	2425.2	10	965	140.7	155.3	169.8	163984.9	3.38	6.75	
34-3267	OZ	63.5	128.61	0.472	42	28.7	31.8	34.9	1333	14.29	28.78	A1
		3412.7	3266.8	12	1066	140.4	155.3	170.2	182033.5	4.36	8.77	
34-3318	OZ	63.5	130.61	0.438	43	27.8	30.8	33.8	1396.7	14.55	29.3	A1
		3413.3	3317.6	11.112	1117	135.5	150.2	164.9	190737.3	4.44	8.93	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
34-3549	OZ	63.6	139.72	0.472	43	28	31	34.1	1400	14.55	29.3	B1
		3421.2	3549	12	1117	136.6	151.5	166.3	191176.1	4.44	8.93	
34-2222	OZ	63.7	87.48	0.562	30	34	37.3	40.5	955.8	10.03	20.06	A3
		3426	2222	14.288	762	166.2	182	197.9	130529.3	3.06	6.11	
34-3165	OZ	63.8	124.61	0.562	38	31.2	34.3	37.5	1212.5	13.77	27.73	A1
		3431.1	3165.2	14.288	965	152.1	167.5	182.9	165583.5	4.2	8.45	
34-2171	OZ	63.9	85.48	0.625	28	35.7	39	42.3	894.1	9.77	19.54	A3
		3433.5	2171.2	15.875	711	174.1	190.3	206.5	122094.8	2.98	5.95	
34-3193	OZ	63.9	125.72	0.938	30	37.9	41.3	44.7	958.8	12.72	25.64	B1
		3436.4	3193.4	23.812	762	185.2	201.6	218.1	130928.5	3.88	7.81	
34-3409	OZ	64	134.21	0.438	43	27.7	30.9	34.1	1408.3	14.59	29.37	B2
		3441.7	3409	11.112	1117	135.4	150.8	166.3	192320.5	4.45	8.95	
34-3358	OZ	64.1	132.21	0.472	42	28.7	31.9	35.1	1346.5	14.32	28.84	B2
		3447.3	3358.2	12	1066	140.1	155.8	171.5	183877.6	4.37	8.79	
35-3003	OZ	64.2	118.21	0.938	28	38.3	41.9	45.5	898.6	12.49	25.18	B2
		3451	3002.6	23.812	711	187.1	204.7	222.3	122718.5	3.81	7.67	
35-2324	OZ	64.2	91.48	0.472	34	31.5	34.6	37.7	1092	10.55	21.11	A3
		3453.5	2323.6	12	863	154	169.1	184.3	149123.9	3.22	6.43	
35-2822	OZ	64.2	111.1	0.75	30	36	39.5	43.1	963.7	12.75	25.7	A2
		3454.1	2822	19.05	762	175.7	193	210.4	131601.2	3.89	7.83	
35-3064	OZ	64.3	120.61	0.688	34	34.1	37.4	40.7	1092.7	13.24	26.68	A1
		3455.8	3063.6	17.462	863	166.7	182.6	198.6	149223.4	4.04	8.13	
35-3447	OZ	64.3	135.72	0.562	40	30.3	33.5	36.6	1286.5	14.03	28.25	B1
		3458.2	3447.4	14.288	1016	148.1	163.4	178.7	175678.2	4.28	8.61	
35-3295	OZ	64.4	129.72	0.75	34	34.5	37.7	41	1094.4	13.24	26.68	B1
		3461.1	3295	19.05	863	168.3	184.3	200.2	149448.5	4.04	8.13	
35-3076	OZ	64.4	121.1	0.472	40	29.6	32.8	36.1	1288.8	14.06	28.32	A2
		3464.6	3076	12	1016	144.3	160.2	176.1	176000.6	4.29	8.63	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
35-3127	OZ	64.4	123.1	0.438	42	28.6	31.8	35	1353.4	14.32	28.84	A2
		3464.8	3126.8	11.112	1066	139.5	155.1	170.8	184813.8	4.37	8.79	
35-3114	OZ	64.5	122.61	0.625	36	32.8	36	39.2	1161.4	13.51	27.21	A1
		3468.9	3114.4	15.875	914	159.9	175.6	191.3	158598.1	4.12	8.29	
35-2476	OZ	64.6	97.48	0.375	40	28.3	31.2	34.1	1291.9	11.34	22.68	A3
		3472.7	2476	9.525	1016	138.2	152.4	166.7	176414.5	3.46	6.91	
35-2374	OZ	64.6	93.48	0.438	36	30.5	33.5	36.6	1163	10.81	21.63	A3
		3473.6	2374.4	11.112	914	148.8	163.6	178.5	158812	3.3	6.59	
35-2301	OZ	64.6	90.59	0.938	24	41	44.5	48	775.5	9.24	18.49	B3
		3474.6	2301	23.812	609	200.4	217.4	234.4	105905.3	2.82	5.64	
35-3104	OZ	64.7	122.21	0.75	31	35	38.5	42	1035	13.01	26.23	B2
		3477.7	3104.2	19.05	812	171.1	188.1	205.1	141332.3	3.97	7.99	
35-3257	OZ	64.7	128.21	0.562	38	31	34.3	37.7	1229.8	13.8	27.8	B2
		3480	3256.6	14.288	965	151.5	167.7	183.8	167946.8	4.21	8.47	
35-2974	OZ	64.8	117.1	0.562	36	31.9	35.3	38.7	1166.2	13.54	27.27	A2
		3483.1	2974.4	14.288	914	156	172.4	188.9	159248.5	4.13	8.31	
35-2962	OZ	65.1	116.61	0.875	30	38.2	41.5	44.9	977.1	12.72	25.64	A1
		3502.2	2962	22.225	762	186.3	202.8	219.2	133432.5	3.88	7.81	
35-2070	OZ	65.2	81.48	0.812	24	40.1	43.6	47.1	782.6	9.24	18.49	A3
		3506.3	2069.6	20.638	609	195.9	213	230	106872	2.82	5.64	
35-3346	OZ	65.2	131.72	0.688	36	33.3	36.5	39.7	1174.4	13.51	27.21	B1
		3507.7	3345.8	17.462	914	162.6	178.3	194	160373	4.12	8.29	
35-2873	OZ	65.2	113.1	0.688	31	34.9	38.4	41.9	1044	13.01	26.23	A2
		3508	2872.8	17.462	812	170.3	187.3	204.4	142565	3.97	7.99	
35-3397	OZ	65.3	133.72	0.625	38	31.9	35.1	38.3	1239.8	13.77	27.73	B1
		3508.2	3396.6	15.875	965	155.9	171.4	186.8	169307.2	4.2	8.45	
35-2911	OZ	65.4	114.61	1	28	40.5	44	47.4	914.9	12.46	25.11	A1
		3513.5	2911.2	25.4	711	197.8	214.6	231.3	124941.2	3.8	7.65	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
35-3701	OZ	65.5	145.72	0.394	50	25.9	28.8	31.7	1636.4	15.34	30.87	B1
		3519.2	3701.4	10	1270	126.6	140.8	155	223471.4	4.67	9.41	
35-2924	OZ	65.5	115.1	0.625	34	33.5	37	40.4	1112.9	13.28	26.75	A2
		3519.6	2923.6	15.875	863	163.7	180.5	197.2	151974.2	4.05	8.15	
35-3155	OZ	65.5	124.21	0.688	34	33.9	37.3	40.8	1114.1	13.28	26.75	B2
		3523.3	3155	17.462	863	165.6	182.4	199.1	152136.8	4.05	8.15	
35-3206	OZ	65.6	126.21	0.625	36	32.6	36	39.3	1180.4	13.54	27.27	B2
		3525.8	3205.8	15.875	914	159.1	175.5	192	161198	4.13	8.31	
35-2758	OZ	65.6	108.59	0.394	42	28.1	31	33.9	1377.7	11.6	23.2	B3
		3527.3	2758.2	10	1066	137	151.1	165.3	188143.8	3.54	7.07	
35-3419	OZ	65.7	134.61	0.394	48	26.6	29.6	32.5	1576.1	15.08	30.35	A1
		3530.7	3419.2	10	1219	130	144.3	158.6	215231.9	4.6	9.25	
35-2606	OZ	65.7	102.59	0.5	36	31.4	34.5	37.5	1183.4	10.81	21.63	B3
		3534.7	2605.8	12.7	914	153.3	168.3	183.3	161608	3.3	6.59	
35-3511	OZ	65.9	138.21	0.394	48	26.6	29.7	32.8	1582.7	15.11	30.41	B2
		3545.5	3510.6	10	1219	130	145	160.1	216131.6	4.61	9.27	
36-2771	OZ	66.1	109.1	0.875	28	38.8	42.4	46	925.2	12.49	25.18	A2
		3553	2771.2	22.225	711	189.2	206.9	224.5	126345.2	3.81	7.67	
36-2403	OZ	66.1	94.59	0.75	28	37.7	41	44.4	925.5	9.77	19.54	B3
		3554.2	2402.6	19.05	711	184.1	200.4	216.6	126386.5	2.98	5.95	
36-3752	OZ	66.4	147.72	0.375	52	25.4	28.3	31.2	1727.1	15.6	31.4	B1
		3571.3	3752.2	9.525	1320	124.1	138.2	152.2	235849.1	4.75	9.57	
36-3470	OZ	66.7	136.61	0.375	50	26.1	29	31.9	1668.6	15.34	30.87	A1
		3588.4	3470	9.525	1270	127.5	141.6	155.6	227862.8	4.67	9.41	
36-3244	OZ	66.8	127.72	0.875	31	37.3	40.6	44	1068	12.98	26.16	B1
		3588.7	3244.2	22.225	812	182.2	198.4	214.6	145846.4	3.96	7.97	
36-3267	OZ	66.8	128.61	0.5	42	29.9	32.9	36	1402.7	14.29	28.78	A1
		3591.2	3266.8	12.7	1066	145.9	160.8	175.7	191556.2	4.36	8.77	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
36-3053	OZ	66.8	120.21	0.875	30	37.8	41.3	44.9	1002.6	12.75	25.7	B2
		3593.6	3053.4	22.225	762	184.6	201.9	219.1	136915.5	3.89	7.83	
36-2809	OZ	66.9	110.59	0.375	43	27.5	30.4	33.2	1471.2	11.86	23.72	B3
		3595.3	2809	9.525	1117	134.4	148.3	162.2	200906.4	3.62	7.23	
36-3561	OZ	66.9	140.21	0.375	50	26.1	29.2	32.2	1672.7	15.37	30.94	B2
		3597.3	3561.4	9.525	1270	127.6	142.4	157.2	228425.5	4.68	9.43	
36-3549	OZ	67	139.72	0.5	43	29.1	32.1	35.1	1474	14.55	29.3	B1
		3602.1	3549	12.7	1117	142	156.8	171.6	201287.1	4.44	8.93	
36-2120	OZ	67.1	83.48	0.75	26	39.3	42.7	46.1	871.9	9.51	19.01	A3
		3605.8	2120.4	19.05	660	192	208.6	225.2	119063.1	2.9	5.79	
36-2324	OZ	67.2	91.48	0.5	34	32.8	35.9	39	1143.2	10.55	21.11	A3
		3615.3	2323.6	12.7	863	160.2	175.4	190.5	156108.3	3.22	6.43	
36-2657	OZ	67.3	104.59	0.472	38	30.8	33.8	36.8	1277.9	11.08	22.15	B3
		3616	2656.6	12	965	150.3	165	179.7	174508.5	3.38	6.75	
36-2555	OZ	67.3	100.59	0.562	34	33.4	36.5	39.6	1144.2	10.55	21.11	B3
		3618.7	2555	14.288	863	163	178.3	193.6	156257.2	3.22	6.43	
36-2476	OZ	67.3	97.48	0.394	40	29.3	32.2	35.1	1346.4	11.34	22.68	A3
		3619.5	2476	10	1016	142.9	157.1	171.4	183868.8	3.46	6.91	
36-3003	OZ	67.3	118.21	1	28	40.1	43.7	47.3	942.8	12.49	25.18	B2
		3620.4	3002.6	25.4	711	195.8	213.3	230.9	128741.7	3.81	7.67	
36-3358	OZ	67.3	132.21	0.5	42	29.8	33	36.2	1414.3	14.32	28.84	B2
		3620.9	3358.2	12.7	1066	145.4	161.1	176.8	193141.2	4.37	8.79	
36-3193	OZ	67.4	125.72	1	30	39.7	43.1	46.5	1010.5	12.72	25.64	B1
		3622	3193.4	25.4	762	193.9	210.4	226.8	137998	3.88	7.81	
36-2453	OZ	67.4	96.59	0.688	30	36.5	39.8	43.1	1010.6	10.03	20.06	B3
		3622.3	2453.4	17.462	762	178.4	194.4	210.3	138009	3.06	6.11	
36-2707	OZ	67.4	106.59	0.438	40	29.7	32.7	35.6	1347.7	11.34	22.68	B3
		3622.9	2707.4	11.112	1016	145	159.4	173.8	184043.8	3.46	6.91	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
36-2301	OZ	67.5	90.59	1	24	43	46.5	50	810.4	9.24	18.49	B3
		3631	2301	25.4	609	210	226.9	243.9	110673.3	2.82	5.64	
36-3013	OZ	67.6	118.61	0.812	31	37.4	40.7	44	1080.9	12.98	26.16	A1
		3632	3012.8	20.638	812	182.4	198.6	214.8	147603.9	3.96	7.97	
36-3279	OZ	67.6	129.1	0.375	48	26.9	30	33	1622.5	15.11	30.41	A2
		3634.5	3279.2	9.525	1219	131.4	146.3	161.2	221561.6	4.61	9.27	
36-3076	OZ	67.6	121.1	0.5	40	30.7	34	37.2	1352.6	14.06	28.32	A2
		3635.9	3076	12.7	1016	149.9	165.8	181.7	184705.7	4.29	8.63	
36-3651	OZ	67.8	143.72	0.438	48	27.4	30.4	33.3	1626.9	15.08	30.35	B1
		3644.5	3650.6	11.112	1219	133.9	148.3	162.7	222169.8	4.6	9.25	
36-2504	OZ	67.8	98.59	0.625	31	35.1	38.3	41.5	1085	10.29	20.58	B3
		3646	2504.2	15.875	812	171.4	187	202.6	148172.7	3.14	6.27	
37-3318	OZ	68.1	130.61	0.472	43	29.2	32.2	35.3	1497.6	14.55	29.3	A1
		3659.8	3317.6	12	1117	142.7	157.4	172.1	204510.5	4.44	8.93	
37-2822	OZ	68.3	111.1	0.812	30	38	41.6	45.1	1024.7	12.75	25.7	A2
		3672.6	2822	20.638	762	185.7	203.1	220.4	139926.5	3.89	7.83	
37-3409	OZ	68.5	134.21	0.472	43	29.2	32.3	35.5	1506.5	14.59	29.37	B2
		3681.5	3409	12	1117	142.4	157.9	173.3	205724.5	4.45	8.95	
37-2171	OZ	68.5	85.48	0.688	28	38.2	41.5	44.8	959.6	9.77	19.54	A3
		3685	2171.2	17.462	711	186.3	202.5	218.8	131038.2	2.98	5.95	
37-2070	OZ	68.6	81.48	0.875	24	42.3	45.8	49.3	822.8	9.24	18.49	A3
		3686.2	2069.6	22.225	609	206.6	223.7	240.7	112355.1	2.82	5.64	
37-2527	OZ	68.7	99.48	0.375	42	28.7	31.6	34.4	1441.8	11.6	23.2	A3
		3691.3	2526.8	9.525	1066	140.1	154.1	168	196894.6	3.54	7.07	
37-3178	OZ	68.7	125.1	0.438	43	29	32.2	35.3	1510.9	14.59	29.37	A2
		3692.3	3177.6	11.112	1117	141.6	157	172.4	206325.8	4.45	8.95	
37-2273	OZ	68.7	89.48	0.562	31	34.9	38.1	41.2	1099.2	10.29	20.58	A3
		3693.6	2272.8	14.288	812	170.3	185.8	201.3	150109.2	3.14	6.27	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
37-2374	OZ	68.8	93.48	0.472	36	32.2	35.2	38.2	1239.1	10.81	21.63	A3
		3700.9	2374.4	12	914	157	171.8	186.7	169204.5	3.3	6.59	
37-3127	OZ	68.9	123.1	0.472	42	30.1	33.3	36.5	1446.2	14.32	28.84	A2
		3702.4	3126.8	12	1066	146.8	162.4	178.1	197485.5	4.37	8.79	
37-2962	OZ	68.9	116.61	0.938	30	40.1	43.5	46.8	1033.7	12.72	25.64	A1
		3704.9	2962	23.812	762	195.8	212.2	228.7	141157	3.88	7.81	
37-3104	OZ	68.9	122.21	0.812	31	37	40.5	44	1102.9	13.01	26.23	B2
		3706	3104.2	20.638	812	180.8	197.8	214.8	150612.6	3.97	7.99	
37-3295	OZ	68.9	129.72	0.812	34	36.5	39.7	43	1171.9	13.24	26.68	B1
		3706.1	3295	20.638	863	178.1	194	210	160030.3	4.04	8.13	
37-3216	OZ	69	126.61	0.562	40	31.8	34.9	38	1379	14.03	28.25	A1
		3707.1	3216	14.288	1016	155.3	170.4	185.6	188318.7	4.28	8.61	
37-2425	OZ	69	95.48	0.438	38	31	34	37	1311.8	11.08	22.15	A3
		3712	2425.2	11.112	965	151.4	165.9	180.5	179143.2	3.38	6.75	
37-2222	OZ	69.1	87.48	0.625	30	36.7	39.9	43.2	1036.4	10.03	20.06	A3
		3714.6	2222	15.875	762	179	194.9	210.8	141526.6	3.06	6.11	
37-3064	OZ	69.2	120.61	0.75	34	36.3	39.6	42.8	1177.1	13.24	26.68	A1
		3722.5	3063.6	19.05	863	177.3	193.2	209.1	160736.7	4.04	8.13	
37-3498	OZ	69.4	137.72	0.562	42	31	34	37.1	1456.7	14.29	28.78	B1
		3729.3	3498.2	14.288	1066	151.1	166.1	181.2	198920.6	4.36	8.77	
37-3752	OZ	69.5	147.72	0.394	52	26.3	29.1	32	1807.3	15.6	31.4	B1
		3737.2	3752.2	10	1320	128.2	142.2	156.2	246803.2	4.75	9.57	
37-2771	OZ	69.5	109.1	0.938	28	40.7	44.3	47.9	973.7	12.49	25.18	A2
		3739.2	2771.2	23.812	711	198.6	216.3	233.9	132965.8	3.81	7.67	
37-3307	OZ	69.6	130.21	0.562	40	31.7	34.9	38.2	1391.5	14.06	28.32	B2
		3740.5	3307.4	14.288	1016	154.5	170.5	186.4	190017.4	4.29	8.63	
37-3025	OZ	69.7	119.1	0.562	38	32.6	35.9	39.2	1323.9	13.8	27.8	A2
		3746.2	3025.2	14.288	965	159.3	175.4	191.6	180793.2	4.21	8.47	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
38-2809	OZ	69.8	110.59	0.394	43	28.5	31.3	34.2	1535.6	11.86	23.72	B3
		3752.7	2809	10	1117	139	152.9	166.8	209698.9	3.62	7.23	
38-3470	OZ	69.8	136.61	0.394	50	27	29.9	32.7	1745.6	15.34	30.87	A1
		3753.9	3470	10	1270	131.7	145.8	159.8	238373.8	4.67	9.41	
38-2873	OZ	69.9	113.1	0.75	31	37.1	40.5	44	1118.3	13.01	26.23	A2
		3757.8	2872.8	19.05	812	180.9	197.9	215	152716.4	3.97	7.99	
38-3561	OZ	69.9	140.21	0.394	50	27	30	33	1747.7	15.37	30.94	B2
		3758.5	3561.4	10	1270	131.7	146.5	161.3	238666.7	4.68	9.43	
38-3165	OZ	70	124.61	0.625	38	33.5	36.7	39.8	1330.5	13.77	27.73	A1
		3764.7	3165.2	15.875	965	163.7	179.1	194.5	181684.9	4.2	8.45	
38-3114	OZ	70.1	122.61	0.688	36	35	38.2	41.4	1261.6	13.51	27.21	A1
		3768.3	3114.4	17.462	914	171	186.7	202.3	172288.7	4.12	8.29	
38-2403	OZ	70.2	94.59	0.812	28	39.9	43.3	46.6	983	9.77	19.54	B3
		3775.1	2402.6	20.638	711	195.1	211.3	227.6	134243.4	2.98	5.95	
38-3155	OZ	70.3	124.21	0.75	34	36	39.5	42.9	1195.9	13.28	26.75	B2
		3782.2	3155	19.05	863	175.9	192.6	209.3	163316.5	4.05	8.15	
38-3346	OZ	70.4	131.72	0.75	36	35.4	38.6	41.8	1266.7	13.51	27.21	B1
		3783.4	3345.8	19.05	914	172.9	188.6	204.3	172979.2	4.12	8.29	
38-3803	OZ	70.4	149.72	0.375	53	25.7	28.6	31.4	1900.2	15.86	31.92	B1
		3783.7	3803	9.525	1371	125.6	139.4	153.3	259483.8	4.83	9.73	
38-3053	OZ	70.5	120.21	0.938	30	39.7	43.2	46.8	1057.5	12.75	25.7	B2
		3790.3	3053.4	23.812	762	193.8	211.1	228.3	144408.8	3.89	7.83	
38-2657	OZ	70.6	104.59	0.5	38	32	35	38.1	1340.9	11.08	22.15	B3
		3794.4	2656.6	12.7	965	156.4	171.1	185.8	183116.5	3.38	6.75	
38-3279	OZ	70.6	129.1	0.394	48	27.8	30.8	33.9	1694.4	15.11	30.41	A2
		3795.7	3279.2	10	1219	135.7	150.6	165.5	231383.2	4.61	9.27	
38-3447	OZ	70.7	135.72	0.625	40	32.6	35.8	38.9	1413.3	14.03	28.25	B1
		3799.3	3447.4	15.875	1016	159.3	174.6	189.9	193004.3	4.28	8.61	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
38-2974	OZ	70.7	117.1	0.625	36	34.3	37.7	41.1	1272.3	13.54	27.27	A2
		3800.1	2974.4	15.875	914	167.6	184.1	200.5	173738.8	4.13	8.31	
38-3244	OZ	70.7	127.72	0.938	31	39.2	42.5	45.9	1131.4	12.98	26.16	B1
		3801.9	3244.2	23.812	812	191.5	207.7	223.9	154509	3.96	7.97	
38-2924	OZ	70.7	115.1	0.688	34	35.8	39.2	42.7	1202.3	13.28	26.75	A2
		3802.2	2923.6	17.462	863	174.8	191.6	208.3	164178.3	4.05	8.15	
38-3257	OZ	70.8	128.21	0.625	38	33.3	36.6	40	1344.4	13.8	27.8	B2
		3804.3	3256.6	15.875	965	162.7	178.9	195.1	183596.3	4.21	8.47	
38-3612	OZ	70.8	142.21	0.375	52	26.4	29.4	32.4	1840.3	15.63	31.46	B2
		3805.4	3612.2	9.525	1320	129.1	143.7	158.3	251310.5	4.76	9.59	
38-3521	OZ	70.8	138.61	0.375	52	26.4	29.3	32.1	1840.6	15.6	31.4	A1
		3806	3520.8	9.525	1320	129.1	142.9	156.8	251350	4.75	9.57	
38-3397	OZ	71	133.72	0.688	38	34.1	37.3	40.5	1348.6	13.77	27.73	B1
		3816	3396.6	17.462	965	166.6	182.1	197.6	184159.1	4.2	8.45	
38-3206	OZ	71	126.21	0.688	36	34.8	38.2	41.5	1277.8	13.54	27.27	B2
		3816.7	3205.8	17.462	914	169.8	186.3	202.7	174498.3	4.13	8.31	
38-3330	OZ	71.6	131.1	0.375	50	27.2	30.2	33.3	1789	15.37	30.94	A2
		3847.2	3330	9.525	1270	133	147.7	162.4	244298.7	4.68	9.43	
39-2527	OZ	71.6	99.48	0.394	42	29.7	32.6	35.4	1503.9	11.6	23.2	A3
		3850.3	2526.8	10	1066	145	158.9	172.9	205373.7	3.54	7.07	
39-3318	OZ	71.7	130.61	0.5	43	30.4	33.4	36.4	1576.8	14.55	29.3	A1
		3853.4	3317.6	12.7	1117	148.4	163.1	177.8	215326.7	4.44	8.93	
39-2070	OZ	71.9	81.48	0.938	24	44.5	48	51.5	862.2	9.24	18.49	A3
		3863.1	2069.6	23.812	609	217.3	234.3	251.4	117746.5	2.82	5.64	
39-3013	OZ	71.9	118.61	0.875	31	39.4	42.7	46	1150	12.98	26.16	A1
		3864.4	3012.8	22.225	812	192.4	208.6	224.8	157048.2	3.96	7.97	
39-2758	OZ	71.9	108.59	0.438	42	30.2	33.1	36	1510.4	11.6	23.2	B3
		3866.8	2758.2	11.112	1066	147.4	161.5	175.7	206254.9	3.54	7.07	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
39-3409	OZ	72	134.21	0.5	43	30.3	33.5	36.6	1583.6	14.59	29.37	B2
		3869.9	3409	12.7	1117	147.9	163.4	178.9	216250.7	4.45	8.95	
39-2707	OZ	72	106.59	0.472	40	31.3	34.3	37.3	1440	11.34	22.68	B3
		3870.9	2707.4	12	1016	153	167.4	181.9	196644.1	3.46	6.91	
39-2453	OZ	72.1	96.59	0.75	30	38.9	42.2	45.4	1081.7	10.03	20.06	B3
		3876.9	2453.4	19.05	762	190	205.9	221.9	147711.4	3.06	6.11	
39-2374	OZ	72.2	93.48	0.5	36	33.5	36.5	39.6	1298.8	10.81	21.63	A3
		3879.2	2374.4	12.7	914	163.5	178.3	193.2	177357.7	3.3	6.59	
39-3701	OZ	72.2	145.72	0.438	50	27.8	30.7	33.6	1804.8	15.34	30.87	B1
		3881.3	3701.4	11.112	1270	135.8	150	164.3	246462.7	4.67	9.41	
39-2822	OZ	72.3	111.1	0.875	30	40.1	43.6	47.2	1084.8	12.75	25.7	A2
		3888.3	2822	22.225	762	195.7	213	230.4	148142.3	3.89	7.83	
39-3127	OZ	72.3	123.1	0.5	42	31.2	34.4	37.6	1519	14.32	28.84	A2
		3888.9	3126.8	12.7	1066	152.5	168.2	183.8	207434.7	4.37	8.79	
39-3419	OZ	72.4	134.61	0.438	48	28.6	31.5	34.4	1737	15.08	30.35	A1
		3891.2	3419.2	11.112	1219	139.6	153.9	168.2	237205.5	4.6	9.25	
39-3511	OZ	72.5	138.21	0.438	48	28.5	31.6	34.7	1739.4	15.11	30.41	B2
		3896.5	3510.6	11.112	1219	139.4	154.4	169.4	237533.1	4.61	9.27	
39-2606	OZ	72.5	102.59	0.562	36	34.1	37.2	40.3	1305.9	10.81	21.63	B3
		3900.4	2605.8	14.288	914	166.7	181.7	196.7	178327.3	3.3	6.59	
39-2962	OZ	72.6	116.61	1	30	42	45.4	48.8	1089.5	12.72	25.64	A1
		3905	2962	25.4	762	205.2	221.7	238.1	148778.8	3.88	7.81	
39-3651	OZ	72.8	143.72	0.472	48	28.9	31.8	34.8	1746.5	15.08	30.35	B1
		3912.5	3650.6	12	1219	141.1	155.5	169.9	238506	4.6	9.25	
39-2578	OZ	72.9	101.48	0.375	43	29.1	31.9	34.7	1603.3	11.86	23.72	A3
		3918.1	2577.6	9.525	1117	142	155.7	169.3	218942.5	3.62	7.23	
39-2771	OZ	73	109.1	1	28	42.6	46.2	49.8	1021.5	12.49	25.18	A2
		3922.7	2771.2	25.4	711	208	225.6	243.3	139491.8	3.81	7.67	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
39-3104	OZ	73.1	122.21	0.875	31	39	42.5	46	1170	13.01	26.23	B2
		3931.6	3104.2	22.225	812	190.6	207.5	224.5	159778.9	3.97	7.99	
39-2171	OZ	73.2	85.48	0.75	28	40.6	44	47.3	1024.1	9.77	19.54	A3
		3933	2171.2	19.05	711	198.5	214.7	230.9	139856.4	2.98	5.95	
39-2504	OZ	73.2	98.59	0.688	31	37.6	40.8	44	1171.4	10.29	20.58	B3
		3936.1	2504.2	17.462	812	183.6	199.2	214.8	159962.1	3.14	6.27	
39-2555	OZ	73.4	100.59	0.625	34	36	39.1	42.3	1247.7	10.55	21.11	B3
		3945.9	2555	15.875	863	175.8	191	206.3	170382.9	3.22	6.43	
39-3295	OZ	73.4	129.72	0.875	34	38.5	41.7	45	1248.5	13.24	26.68	B1
		3948.4	3295	22.225	863	187.8	203.8	219.8	170490.4	4.04	8.13	
39-3178	OZ	73.5	125.1	0.472	43	30.5	33.7	36.9	1616.2	14.59	29.37	A2
		3949.6	3177.6	12	1117	149.2	164.6	179.9	220705.8	4.45	8.95	
40-3803	OZ	73.7	149.72	0.394	53	26.6	29.4	32.2	1988.9	15.86	31.92	B1
		3960.4	3803	10	1371	129.8	143.6	157.4	271607.4	4.83	9.73	
40-2425	OZ	73.7	95.48	0.472	38	32.8	35.7	38.7	1399.8	11.08	22.15	A3
		3961	2425.2	12	965	159.9	174.4	189	191159.2	3.38	6.75	
40-2476	OZ	73.7	97.48	0.438	40	31.5	34.4	37.4	1473.7	11.34	22.68	A3
		3961.5	2476	11.112	1016	153.9	168.2	182.4	201244	3.46	6.91	
40-3612	OZ	74	142.21	0.394	52	27.3	30.3	33.3	1923.6	15.63	31.46	B2
		3977.7	3612.2	10	1320	133.3	147.9	162.5	262689.1	4.76	9.59	
40-2324	OZ	74	91.48	0.562	34	35.7	38.8	41.9	1258.2	10.55	21.11	A3
		3979.1	2323.6	14.288	863	174.3	189.5	204.6	171818.4	3.22	6.43	
40-3521	OZ	74.1	138.61	0.394	52	27.3	30.2	33	1926.1	15.6	31.4	A1
		3982.8	3520.8	10	1320	133.4	147.2	161.1	263024	4.75	9.57	
40-3053	OZ	74.1	120.21	1	30	41.6	45.1	48.6	1111.6	12.75	25.7	B2
		3984.3	3053.4	25.4	762	202.9	220.2	237.5	151802.5	3.89	7.83	
40-3064	OZ	74.1	120.61	0.812	34	38.5	41.7	45	1260.4	13.24	26.68	A1
		3986.1	3063.6	20.638	863	187.8	203.7	219.7	172117.8	4.04	8.13	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
40-2403	OZ	74.3	94.59	0.875	28	42.2	45.5	48.8	1039.8	9.77	19.54	B3
		3993	2402.6	22.225	711	205.9	222.2	238.5	141989.6	2.98	5.95	
40-3267	OZ	74.3	128.61	0.562	42	32.4	35.5	38.5	1559.8	14.29	28.78	A1
		3993.5	3266.8	14.288	1066	158.3	173.3	188.2	213010.9	4.36	8.77	
40-2222	OZ	74.4	87.48	0.688	30	39.3	42.6	45.8	1115.9	10.03	20.06	A3
		3999.5	2222	17.462	762	191.9	207.7	223.6	152381.3	3.06	6.11	
40-3854	OZ	74.4	151.72	0.375	56	26	28.8	31.6	2083.7	16.12	32.44	B1
		4000.9	3853.8	9.525	1422	127.1	140.7	154.4	284543	4.91	9.89	
40-2873	OZ	74.5	113.1	0.812	31	39.2	42.7	46.2	1191.8	13.01	26.23	A2
		4004.5	2872.8	20.638	812	191.4	208.5	225.5	162744.3	3.97	7.99	
40-3549	OZ	74.6	139.72	0.562	43	31.5	34.6	37.6	1640.9	14.55	29.3	B1
		4009.9	3549	14.288	1117	154	168.8	183.6	224073.8	4.44	8.93	
40-3358	OZ	74.6	132.21	0.562	42	32.3	35.5	38.7	1567.2	14.32	28.84	B2
		4012.2	3358.2	14.288	1066	157.5	173.2	188.9	214011.9	4.37	8.79	
40-3244	OZ	74.6	127.72	1	31	41.1	44.4	47.7	1194.1	12.98	26.16	B1
		4012.4	3244.2	25.4	812	200.7	216.9	233.1	163064.5	3.96	7.97	
40-2273	OZ	74.7	89.48	0.625	31	37.6	40.8	44	1195.5	10.29	20.58	A3
		4017.2	2272.8	15.875	812	183.8	199.3	214.8	163258.6	3.14	6.27	
40-3663	OZ	74.8	144.21	0.375	53	26.7	29.7	32.6	2018.4	15.89	31.98	B2
		4019.2	3663	9.525	1371	130.5	144.9	159.3	275634.1	4.84	9.75	
40-3330	OZ	74.8	131.1	0.394	50	28.1	31.1	34.2	1869.2	15.37	30.94	A2
		4019.7	3330	10	1270	137.4	152.1	166.8	255251.6	4.68	9.43	
40-3076	OZ	74.8	121.1	0.562	40	33.3	36.5	39.8	1496.1	14.06	28.32	A2
		4021.9	3076	14.288	1016	162.5	178.4	194.3	204312	4.29	8.63	
40-3572	OZ	74.9	140.61	0.375	53	26.7	29.5	32.3	2023.3	15.86	31.92	A1
		4028.8	3571.6	9.525	1371	130.6	144.2	157.9	276295.5	4.83	9.73	
40-2070	OZ	75.1	81.48	1	24	46.7	50.2	53.7	901.1	9.24	18.49	A3
		4037	2069.6	25.4	609	227.9	244.9	262	123047.5	2.82	5.64	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
40-3155	OZ	75.1	124.21	0.812	34	38.1	41.5	45	1276.9	13.28	26.75	B2
		4038.2	3155	20.638	863	186.1	202.8	219.6	174367.9	4.05	8.15	
40-2911	OZ	75.2	114.59	0.375	48	28.2	31	33.7	1805.3	12.39	24.77	B3
		4044.2	2910.6	9.525	1219	137.9	151.3	164.7	246533.8	3.78	7.55	
41-3346	OZ	75.4	131.72	0.812	36	37.5	40.7	43.9	1358	13.51	27.21	B1
		4056.2	3345.8	20.638	914	183.1	198.8	214.5	185449.5	4.12	8.29	
41-3114	OZ	75.6	122.61	0.75	36	37.3	40.5	43.7	1360.8	13.51	27.21	A1
		4064.6	3114.4	19.05	914	182.1	197.7	213.4	185831.6	4.12	8.29	
41-2707	OZ	75.6	106.59	0.5	40	32.6	35.6	38.5	1512.4	11.34	22.68	B3
		4065.6	2707.4	12.7	1016	159.3	173.8	188.2	206534.4	3.46	6.91	
41-3381	OZ	75.6	133.1	0.375	52	27.6	30.5	33.5	1966.3	15.63	31.46	A2
		4065.9	3380.8	9.525	1320	134.5	149	163.5	268511.5	4.76	9.59	
41-3216	OZ	75.8	126.61	0.625	40	34.3	37.4	40.5	1515	14.03	28.25	A1
		4072.7	3216	15.875	1016	167.3	182.4	197.6	206891.5	4.28	8.61	
41-2924	OZ	75.9	115.1	0.75	34	38.1	41.5	44.9	1290.6	13.28	26.75	A2
		4081.6	2923.6	19.05	863	185.9	202.6	219.4	176242.9	4.05	8.15	
41-2578	OZ	76.1	101.48	0.394	43	30.1	32.9	35.7	1673.4	11.86	23.72	A3
		4089.6	2577.6	10	1117	147	160.7	174.3	228524.3	3.62	7.23	
41-3013	OZ	76.1	118.61	0.938	31	41.4	44.8	48.1	1218.3	12.98	26.16	A1
		4093.9	3012.8	23.812	812	202.4	218.6	234.7	166376.1	3.96	7.97	
41-3165	OZ	76.2	124.61	0.688	38	35.9	39	42.2	1447.2	13.77	27.73	A1
		4095	3165.2	17.462	965	175.2	190.6	206	197622.6	4.2	8.45	
41-3025	OZ	76.2	119.1	0.625	38	35.1	38.4	41.7	1447.3	13.8	27.8	A2
		4095.3	3025.2	15.875	965	171.4	187.5	203.7	197639.7	4.21	8.47	
41-3307	OZ	76.2	130.21	0.625	40	34	37.3	40.6	1523.7	14.06	28.32	B2
		4096	3307.4	15.875	1016	166.2	182.2	198.1	208077	4.29	8.63	
41-2822	OZ	76.3	111.1	0.938	30	42.1	45.7	49.2	1144.2	12.75	25.7	A2
		4101.1	2822	23.812	762	205.6	223	240.3	156250.1	3.89	7.83	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
41-3498	OZ	76.3	137.72	0.625	42	33.3	36.4	39.5	1602	14.29	28.78	B1
		4101.5	3498.2	15.875	1066	162.7	177.8	192.8	218772.8	4.36	8.77	
41-3206	OZ	76.3	126.21	0.75	36	37	40.4	43.7	1374.2	13.54	27.27	B2
		4104.4	3205.8	19.05	914	180.6	197	213.5	187655.1	4.13	8.31	
41-2974	OZ	76.5	117.1	0.688	36	36.7	40.1	43.4	1377.2	13.54	27.27	A2
		4113.6	2974.4	17.462	914	179.2	195.7	212.1	188073.8	4.13	8.31	
41-2809	OZ	76.6	110.59	0.438	43	30.7	33.5	36.3	1685.7	11.86	23.72	B3
		4119.6	2809	11.112	1117	149.7	163.6	177.5	230201.9	3.62	7.23	
41-3397	OZ	76.6	133.72	0.75	38	36.3	39.5	42.7	1456.2	13.77	27.73	B1
		4120.6	3396.6	19.05	965	177.3	192.8	208.3	198860	4.2	8.45	
41-3651	OZ	76.7	143.72	0.5	48	30.1	33	36	1840.5	15.08	30.35	B1
		4123	3650.6	12.7	1219	146.7	161.1	175.5	251339.8	4.6	9.25	
41-3752	OZ	76.7	147.72	0.438	52	28.2	31.1	33.9	1994.5	15.6	31.4	B1
		4124.2	3752.2	11.112	1320	137.7	151.7	165.7	272365	4.75	9.57	
41-3257	OZ	76.7	128.21	0.688	38	35.6	38.9	42.3	1457.9	13.8	27.8	B2
		4125.3	3256.6	17.462	965	173.9	190.1	206.3	199086.7	4.21	8.47	
41-2453	OZ	76.8	96.59	0.812	30	41.3	44.5	47.8	1151.8	10.03	20.06	B3
		4128.3	2453.4	20.638	762	201.6	217.5	233.4	157287.5	3.06	6.11	
41-3561	OZ	76.9	140.21	0.438	50	28.9	32	35	1922.7	15.37	30.94	B2
		4134.8	3561.4	11.112	1270	141.3	156.1	170.9	262561.8	4.68	9.43	
41-2758	OZ	76.9	108.59	0.472	42	31.9	34.8	37.7	1615.6	11.6	23.2	B3
		4136.1	2758.2	12	1066	155.7	169.8	184	220620	3.54	7.07	
41-3447	OZ	76.9	135.72	0.688	40	34.9	38	41.2	1539	14.03	28.25	B1
		4137.1	3447.4	17.462	1016	170.5	185.8	201	210163.3	4.28	8.61	
41-3470	OZ	77	136.61	0.438	50	29	31.9	34.8	1925.2	15.34	30.87	A1
		4140.1	3470	11.112	1270	141.6	155.7	169.7	262898.3	4.67	9.41	
42-3178	OZ	77.2	125.1	0.5	43	31.8	34.9	38.1	1698.9	14.59	29.37	A2
		4151.7	3177.6	12.7	1117	155.1	170.5	185.9	231998.6	4.45	8.95	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
42-3104	OZ	77.3	122.21	0.938	31	41	44.5	48	1236.3	13.01	26.23	B2
		4154.3	3104.2	23.812	812	200.2	217.2	234.2	168832.1	3.97	7.99	
42-2425	OZ	77.3	95.48	0.5	38	34.1	37.1	40.1	1468.9	11.08	22.15	A3
		4156.4	2425.2	12.7	965	166.6	181.1	195.7	200588.5	3.38	6.75	
42-3701	OZ	77.5	145.72	0.472	50	29.3	32.2	35.2	1938.5	15.34	30.87	B1
		4168.8	3701.4	12	1270	143.2	157.4	171.6	264716.3	4.67	9.41	
42-3279	OZ	77.6	129.1	0.438	48	29.8	32.9	36	1862.2	15.11	30.41	A2
		4171.5	3279.2	11.112	1219	145.7	160.6	175.6	254294.9	4.61	9.27	
42-3511	OZ	77.7	138.21	0.472	48	30.1	33.1	36.2	1863.8	15.11	30.41	B2
		4175.2	3510.6	12	1219	146.8	161.8	176.9	254520.8	4.61	9.27	
42-3419	OZ	77.7	134.61	0.472	48	30.2	33.1	36	1864.7	15.08	30.35	A1
		4177.3	3419.2	12	1219	147.3	161.6	175.8	254647.3	4.6	9.25	
42-2171	OZ	77.7	85.48	0.812	28	43.1	46.5	49.8	1087.8	9.77	19.54	A3
		4177.5	2171.2	20.638	711	210.6	226.8	243	148550.7	2.98	5.95	
42-3295	OZ	77.9	129.72	0.938	34	40.5	43.7	47	1324.2	13.24	26.68	B1
		4187.8	3295	23.812	863	197.6	213.5	229.5	180829.4	4.04	8.13	
42-3854	OZ	77.9	151.72	0.394	56	26.9	29.7	32.5	2181.5	16.12	32.44	B1
		4188.8	3853.8	10	1422	131.3	145	158.6	297906.5	4.91	9.89	
42-2657	OZ	78	104.59	0.562	38	34.9	37.9	40.9	1482.9	11.08	22.15	B3
		4195.9	2656.6	14.288	965	170.2	184.9	199.6	202496.5	3.38	6.75	
42-3663	OZ	78.2	144.21	0.394	53	27.6	30.6	33.5	2110.6	15.89	31.98	B2
		4202.7	3663	10	1371	134.9	149.3	163.7	288221.1	4.84	9.75	
42-2403	OZ	78.3	94.59	0.938	28	44.4	47.7	51.1	1095.7	9.77	19.54	B3
		4207.7	2402.6	23.812	711	216.8	233	249.3	149625.9	2.98	5.95	
42-3572	OZ	78.4	140.61	0.394	53	27.6	30.4	33.2	2117.8	15.86	31.92	A1
		4217	3571.6	10	1371	135	148.6	162.3	289204.5	4.83	9.73	
42-2527	OZ	78.5	99.48	0.438	42	32	34.9	37.7	1648.7	11.6	23.2	A3
		4220.9	2526.8	11.112	1066	156.3	170.3	184.2	225143.3	3.54	7.07	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
42-2504	OZ	78.5	98.59	0.75	31	40.1	43.3	46.5	1256.7	10.29	20.58	B3
		4222.6	2504.2	19.05	812	195.7	211.3	226.9	171607.8	3.14	6.27	
42-2911	OZ	78.6	114.59	0.394	48	29.2	32	34.7	1886.4	12.39	24.77	B3
		4225.7	2910.6	10	1219	142.7	156.1	169.5	257599.2	3.78	7.55	
42-2476	OZ	78.7	97.48	0.472	40	33.3	36.2	39.2	1574.6	11.34	22.68	A3
		4232.7	2476	12	1016	162.7	176.9	191.2	215021.9	3.46	6.91	
42-3714	OZ	78.8	146.21	0.375	56	27	29.9	32.8	2207.2	16.16	32.51	B2
		4238.1	3713.8	9.525	1422	132	146.2	160.4	301417.1	4.92	9.91	
42-3064	OZ	79	120.61	0.875	34	40.6	43.9	47.1	1342.8	13.24	26.68	A1
		4246.6	3063.6	22.225	863	198.3	214.2	230.1	183367.9	4.04	8.13	
42-2873	OZ	79	113.1	0.875	31	41.4	44.8	48.3	1264.3	13.01	26.23	A2
		4248.3	2872.8	22.225	812	201.9	219	236	172648.9	3.97	7.99	
42-3381	OZ	79	133.1	0.394	52	28.5	31.4	34.4	2055.3	15.63	31.46	A2
		4250	3380.8	10	1320	139	153.5	168	280669	4.76	9.59	
43-3622	OZ	79.2	142.61	0.375	56	27	29.8	32.6	2216.8	16.12	32.44	A1
		4256.5	3622.4	9.525	1422	132	145.5	159	302719.7	4.91	9.89	
43-2606	OZ	79.3	102.59	0.625	36	36.9	39.9	43	1427	10.81	21.63	B3
		4262.2	2605.8	15.875	914	180	194.9	209.9	194867.3	3.3	6.59	
43-2555	OZ	79.4	100.59	0.688	34	38.6	41.7	44.9	1349.9	10.55	21.11	B3
		4269.3	2555	17.462	863	188.5	203.8	219	184347.6	3.22	6.43	
43-2961	OZ	79.6	116.59	0.375	50	28.6	31.3	34	1989.4	12.65	25.29	B3
		4278.3	2961.4	9.525	1270	139.5	152.7	165.9	271672.6	3.85	7.71	
43-2374	OZ	79.6	93.48	0.562	36	36.5	39.5	42.6	1433.1	10.81	21.63	A3
		4280.5	2374.4	14.288	914	178.1	192.9	207.8	195706.4	3.3	6.59	
43-2222	OZ	79.6	87.48	0.75	30	41.9	45.2	48.4	1194.3	10.03	20.06	A3
		4280.7	2222	19.05	762	204.7	220.5	236.4	163094.1	3.06	6.11	
43-3318	OZ	79.8	130.61	0.562	43	33	36	39.1	1755.3	14.55	29.3	A1
		4289.6	3317.6	14.288	1117	161.3	176	190.7	239702.8	4.44	8.93	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
43-3432	OZ	79.8	135.1	0.375	53	27.9	30.8	33.7	2154.5	15.89	31.98	A2
		4290.2	3431.6	9.525	1371	136	150.3	164.5	294220.7	4.84	9.75	
43-3155	OZ	79.8	124.21	0.875	34	40.2	43.6	47.1	1356.9	13.28	26.75	B2
		4291.2	3155	22.225	863	196.3	213	229.7	185292.1	4.05	8.15	
43-3409	OZ	79.9	134.21	0.562	43	32.9	36	39.2	1757.3	14.59	29.37	B2
		4294.4	3409	14.288	1117	160.4	175.9	191.4	239973.2	4.45	8.95	
43-3127	OZ	80.2	123.1	0.562	42	33.9	37.1	40.3	1683.2	14.32	28.84	A2
		4309.1	3126.8	14.288	1066	165.5	181.2	196.8	229849.9	4.37	8.79	
43-2822	OZ	80.2	111.1	1	30	44.1	47.7	51.2	1202.8	12.75	25.7	A2
		4311	2822	25.4	762	215.5	232.8	250.2	164250.1	3.89	7.83	
43-3013	OZ	80.4	118.61	1	31	43.5	46.8	50.1	1285.8	12.98	26.16	A1
		4320.6	3012.8	25.4	812	212.3	228.5	244.7	175588.8	3.96	7.97	
43-3346	OZ	80.5	131.72	0.875	36	39.6	42.8	46	1448.3	13.51	27.21	B1
		4326	3345.8	22.225	914	193.3	209	224.7	197784.4	4.12	8.29	
43-2273	OZ	80.7	89.48	0.688	31	40.4	43.6	46.7	1290.6	10.29	20.58	A3
		4336.8	2272.8	17.462	812	197.2	212.7	228.2	176248.3	3.14	6.27	
43-2324	OZ	80.7	91.48	0.625	34	38.6	41.7	44.8	1371.9	10.55	21.11	A3
		4338.8	2323.6	15.875	863	188.3	203.5	218.7	187350.7	3.22	6.43	
43-2758	OZ	80.9	108.59	0.5	42	33.2	36.1	39	1698.2	11.6	23.2	B3
		4347.6	2758.2	12.7	1066	162.2	176.3	190.5	231898.8	3.54	7.07	
44-3114	OZ	81.1	122.61	0.812	36	39.5	42.7	46	1458.9	13.51	27.21	A1
		4357.6	3114.4	20.638	914	193	208.7	224.4	199228.4	4.12	8.29	
44-2924	OZ	81.1	115.1	0.812	34	40.3	43.8	47.2	1377.9	13.28	26.75	A2
		4357.8	2923.6	20.638	863	196.9	213.7	230.4	188168.9	4.05	8.15	
44-3803	OZ	81.3	149.72	0.438	53	28.6	31.4	34.2	2196.1	15.86	31.92	B1
		4373	3803	11.112	1371	139.5	153.4	167.2	299903.2	4.83	9.73	
44-3104	OZ	81.4	122.21	1	31	43	46.5	49.9	1301.8	13.01	26.23	B2
		4374.3	3104.2	25.4	812	209.9	226.8	243.8	177773.6	3.97	7.99	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
44-2453	OZ	81.4	96.59	0.875	30	43.6	46.9	50.2	1221	10.03	20.06	B3
		4376.3	2453.4	22.225	762	213	228.9	244.9	166737.7	3.06	6.11	
44-3612	OZ	81.5	142.21	0.438	52	29.3	32.3	35.3	2118.1	15.63	31.46	B2
		4379.8	3612.2	11.112	1320	143.2	157.8	172.4	289241.7	4.76	9.59	
44-3206	OZ	81.6	126.21	0.812	36	39.2	42.5	45.9	1469.5	13.54	27.27	B2
		4389.1	3205.8	20.638	914	191.2	207.7	224.1	200669.9	4.13	8.31	
44-3267	OZ	81.7	128.61	0.625	42	35	38	41.1	1715.5	14.29	28.78	A1
		4392	3266.8	15.875	1066	170.7	185.7	200.6	234269.3	4.36	8.77	
44-2679	OZ	81.7	105.48	0.375	48	29.8	32.5	35.2	1961.3	12.39	24.77	A3
		4393.5	2679.2	9.525	1219	145.5	158.7	171.8	267826.7	3.78	7.55	
44-3511	OZ	81.7	138.21	0.5	48	31.3	34.4	37.4	1961.5	15.11	30.41	B2
		4394.1	3510.6	12.7	1219	152.7	167.7	182.7	267866.4	4.61	9.27	
44-3701	OZ	81.7	145.72	0.5	50	30.5	33.4	36.3	2043.5	15.34	30.87	B1
		4394.6	3701.4	12.7	1270	149	163.2	177.4	279058.5	4.67	9.41	
44-3521	OZ	81.8	138.61	0.438	52	29.4	32.2	35.1	2125.6	15.6	31.4	A1
		4395.3	3520.8	11.112	1320	143.5	157.4	171.2	290265.8	4.75	9.57	
44-3358	OZ	81.8	132.21	0.625	42	34.7	38	41.2	1718.6	14.32	28.84	B2
		4399.9	3358.2	15.875	1066	169.6	185.3	201	234691.7	4.37	8.79	
44-3419	OZ	81.9	134.61	0.5	48	31.4	34.3	37.2	1965.1	15.08	30.35	A1
		4402.1	3419.2	12.7	1219	153.3	167.6	181.9	268349.6	4.6	9.25	
44-3076	OZ	81.9	121.1	0.625	40	35.8	39.1	42.4	1638.3	14.06	28.32	A2
		4404.1	3076	15.875	1016	175	190.9	206.8	223730.1	4.29	8.63	
44-2809	OZ	82	110.59	0.472	43	32.4	35.2	38.1	1804.9	11.86	23.72	B3
		4410.7	2809	12	1117	158.2	172.1	186	246468.9	3.62	7.23	
44-3549	OZ	82.1	139.72	0.625	43	34	37	40.1	1806.3	14.55	29.3	B1
		4414.1	3549	15.875	1117	166	180.8	195.6	246661.9	4.44	8.93	
44-2171	OZ	82.2	85.48	0.875	28	45.6	48.9	52.2	1150.6	9.77	19.54	A3
		4418.5	2171.2	22.225	711	222.6	238.9	255.1	157122.4	2.98	5.95	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
44-2403	OZ	82.2	94.59	1	28	46.6	49.9	53.3	1150.8	9.77	19.54	B3
		4419.4	2402.6	25.4	711	227.6	243.8	260.1	157153.2	2.98	5.95	
44-3165	OZ	82.2	124.61	0.75	38	38.2	41.4	44.5	1562.7	13.77	27.73	A1
		4421.8	3165.2	19.05	965	186.7	202.1	217.5	213398.2	4.2	8.45	
44-3397	OZ	82.3	133.72	0.812	38	38.5	41.7	44.8	1562.8	13.77	27.73	B1
		4422.1	3396.6	20.638	965	188	203.5	219	213410.5	4.2	8.45	
44-3330	OZ	82.3	131.1	0.438	50	30.2	33.3	36.3	2056.3	15.37	30.94	A2
		4422.2	3330	11.112	1270	147.7	162.4	177.1	280807.1	4.68	9.43	
44-2974	OZ	82.3	117.1	0.75	36	39.1	42.4	45.8	1481.1	13.54	27.27	A2
		4423.8	2974.4	19.05	914	190.8	207.2	223.7	202254.1	4.13	8.31	
44-3295	OZ	82.3	129.72	1	34	42.4	45.7	49	1399	13.24	26.68	B1
		4424.5	3295	25.4	863	207.2	223.2	239.2	191048.5	4.04	8.13	
44-3752	OZ	82.4	147.72	0.472	52	29.8	32.6	35.5	2143.1	15.6	31.4	B1
		4431.6	3752.2	12	1320	145.3	159.3	173.3	292663.5	4.75	9.57	
44-3714	OZ	82.5	146.21	0.394	56	27.9	30.8	33.8	2308.8	16.16	32.51	B2
		4433.1	3713.8	10	1422	136.4	150.6	164.8	315284.3	4.92	9.91	
44-3561	OZ	82.5	140.21	0.472	50	30.5	33.5	36.6	2061.6	15.37	30.94	B2
		4433.6	3561.4	12	1270	149	163.8	178.6	281533	4.68	9.43	
44-3216	OZ	82.5	126.61	0.688	40	36.7	39.8	42.9	1649.7	14.03	28.25	A1
		4434.7	3216	17.462	1016	179.2	194.4	209.6	225285.1	4.28	8.61	
44-3025	OZ	82.6	119.1	0.688	38	37.6	40.9	44.2	1569.4	13.8	27.8	A2
		4440.8	3025.2	17.462	965	183.4	199.6	215.8	214315	4.21	8.47	
44-3257	OZ	82.6	128.21	0.75	38	37.9	41.2	44.5	1570.2	13.8	27.8	B2
		4443	3256.6	19.05	965	185.1	201.3	217.5	214419.6	4.21	8.47	
44-2476	OZ	82.7	97.48	0.5	40	34.7	37.7	40.6	1653.8	11.34	22.68	A3
		4445.6	2476	12.7	1016	169.6	183.9	198.1	225836.5	3.46	6.91	
44-3470	OZ	82.7	136.61	0.472	50	30.6	33.5	36.4	2067.7	15.34	30.87	A1
		4446.8	3470	12	1270	149.5	163.5	177.6	282369.2	4.67	9.41	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
44-3307	OZ	82.7	130.21	0.688	40	36.4	39.7	43	1654.7	14.06	28.32	B2
		4448.1	3307.4	17.462	1016	177.9	193.8	209.7	225962.3	4.29	8.63	
45-3622	OZ	82.9	142.61	0.394	56	28	30.7	33.5	2320.9	16.12	32.44	A1
		4456.4	3622.4	10	1422	136.6	150	163.5	316936.8	4.91	9.89	
45-3279	OZ	83.1	129.1	0.472	48	31.5	34.5	37.6	1995.3	15.11	30.41	A2
		4469.8	3279.2	12	1219	153.7	168.6	183.5	272481.3	4.61	9.27	
45-3498	OZ	83.1	137.72	0.688	42	35.7	38.8	41.9	1746.1	14.29	28.78	B1
		4470.3	3498.2	17.462	1066	174.3	189.3	204.4	238443.2	4.36	8.77	
45-3447	OZ	83.2	135.72	0.75	40	37.2	40.3	43.4	1663.4	14.03	28.25	B1
		4471.6	3447.4	19.05	1016	181.6	196.9	212.1	227156.7	4.28	8.61	
45-2961	OZ	83.2	116.59	0.394	50	29.6	32.3	35	2079.6	12.65	25.29	B3
		4472.3	2961.4	10	1270	144.5	157.7	170.9	283988.7	3.85	7.71	
45-3432	OZ	83.4	135.1	0.394	53	28.8	31.7	34.6	2252.9	15.89	31.98	A2
		4486.1	3431.6	10	1371	140.6	154.9	169.1	307656.4	4.84	9.75	
45-2873	OZ	83.5	113.1	0.938	31	43.5	47	50.5	1335.9	13.01	26.23	A2
		4489	2872.8	23.812	812	212.4	229.4	246.4	182431.3	3.97	7.99	
45-2578	OZ	83.5	101.48	0.438	43	32.5	35.3	38.1	1837.1	11.86	23.72	A3
		4489.4	2577.6	11.112	1117	158.7	172.3	186	250867.9	3.62	7.23	
45-3064	OZ	83.8	120.61	0.938	34	42.8	46	49.3	1424.2	13.24	26.68	A1
		4504.1	3063.6	23.812	863	208.7	224.7	240.6	194487.8	4.04	8.13	
45-2707	OZ	83.8	106.59	0.562	40	35.6	38.5	41.5	1675.5	11.34	22.68	B3
		4504.1	2707.4	14.288	1016	173.6	188.1	202.5	228810	3.46	6.91	
45-2504	OZ	83.8	98.59	0.812	31	42.6	45.8	48.9	1340.9	10.29	20.58	B3
		4505.7	2504.2	20.638	812	207.8	223.4	239	183111.7	3.14	6.27	
45-2527	OZ	84	99.48	0.472	42	33.9	36.7	39.6	1763.5	11.6	23.2	A3
		4514.9	2526.8	12	1066	165.4	179.3	193.3	240824	3.54	7.07	
45-3012	OZ	84	118.59	0.375	52	28.9	31.6	34.2	2185	12.91	25.82	B3
		4518.3	3012.2	9.525	1320	141.2	154.1	167.1	298386.6	3.93	7.87	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
45-3482	OZ	84.1	137.1	0.375	56	28.2	31	33.9	2353.9	16.16	32.51	A2
		4519.8	3482.4	9.525	1422	137.4	151.5	165.5	321445.8	4.92	9.91	
45-3155	OZ	84.5	124.21	0.938	34	42.3	45.7	49.1	1435.9	13.28	26.75	B2
		4541.2	3155	23.812	863	206.5	223.2	239.9	196089.9	4.05	8.15	
46-2222	OZ	84.8	87.48	0.812	30	44.5	47.8	51	1271.7	10.03	20.06	A3
		4558.2	2222	20.638	762	217.4	233.3	249.1	173667.5	3.06	6.11	
46-2555	OZ	85.4	100.59	0.75	34	41.2	44.3	47.5	1451	10.55	21.11	B3
		4589	2555	19.05	863	201.1	216.4	231.7	198152.7	3.22	6.43	
46-2679	OZ	85.4	105.48	0.394	48	30.9	33.6	36.3	2049.3	12.39	24.77	A3
		4590.7	2679.2	10	1219	150.8	163.9	177.1	279847.8	3.78	7.55	
46-3346	OZ	85.4	131.72	0.938	36	41.7	44.9	48.1	1537.7	13.51	27.21	B1
		4592.8	3345.8	23.812	914	203.5	219.2	234.9	209984.7	4.12	8.29	
46-2657	OZ	85.4	104.59	0.625	38	37.7	40.7	43.7	1623.3	11.08	22.15	B3
		4593.5	2656.6	15.875	965	184	198.7	213.4	221680.4	3.38	6.75	
46-2425	OZ	85.5	95.48	0.562	38	37.2	40.2	43.2	1624.3	11.08	22.15	A3
		4596.3	2425.2	14.288	965	181.8	196.3	210.8	221817.7	3.38	6.75	
46-3651	OZ	85.5	143.72	0.562	48	32.7	35.6	38.6	2052.4	15.08	30.35	B1
		4597.7	3650.6	14.288	1219	159.5	173.9	188.3	280278	4.6	9.25	
46-3178	OZ	85.7	125.1	0.562	43	34.5	37.7	40.8	1885.3	14.59	29.37	A2
		4607.2	3177.6	14.288	1117	168.5	183.9	199.3	257448.6	4.45	8.95	
46-2606	OZ	85.9	102.59	0.688	36	39.6	42.6	45.7	1546.8	10.81	21.63	B3
		4620.1	2605.8	17.462	914	193.2	208.2	223.2	211230	3.3	6.59	
46-2453	OZ	86	96.59	0.938	30	46	49.2	52.5	1289.3	10.03	20.06	B3
		4621.1	2453.4	23.812	762	224.5	240.4	256.3	176063.5	3.06	6.11	
46-3854	OZ	86.1	151.72	0.438	56	28.9	31.7	34.5	2409.9	16.12	32.44	B1
		4627.4	3853.8	11.112	1422	141.3	154.9	168.6	329099.1	4.91	9.89	
46-2924	OZ	86.1	115.1	0.875	34	42.6	46	49.4	1464.3	13.28	26.75	A2
		4630.8	2923.6	22.225	863	207.9	224.7	241.4	199957.8	4.05	8.15	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
46-3663	OZ	86.1	144.21	0.438	53	29.7	32.6	35.6	2325.7	15.89	31.98	B2
		4631.1	3663	11.112	1371	145	159.4	173.8	317598.3	4.84	9.75	
46-2809	OZ	86.3	110.59	0.5	43	33.8	36.6	39.5	1898.4	11.86	23.72	B3
		4639.3	2809	12.7	1117	164.9	178.8	192.7	259243.6	3.62	7.23	
46-2730	OZ	86.3	107.48	0.375	50	30.1	32.8	35.4	2158	12.65	25.29	A3
		4640.9	2730	9.525	1270	147.2	160.1	173	294700.1	3.85	7.71	
46-3114	OZ	86.4	122.61	0.875	36	41.8	45	48.2	1556	13.51	27.21	A1
		4647.4	3114.4	22.225	914	204	219.7	235.3	212479.8	4.12	8.29	
46-2911	OZ	86.5	114.59	0.438	48	31.5	34.3	37	2075.4	12.39	24.77	B3
		4649.2	2910.6	11.112	1219	154	167.4	180.8	283412.4	3.78	7.55	
47-2273	OZ	86.5	89.48	0.75	31	43.1	46.3	49.5	1384.6	10.29	20.58	A3
		4652.6	2272.8	19.05	812	210.6	226.1	241.6	189079.6	3.14	6.27	
47-2171	OZ	86.6	85.48	0.938	28	48.1	51.4	54.7	1212.5	9.77	19.54	A3
		4656.1	2171.2	23.812	711	234.6	250.9	267.1	165572.6	2.98	5.95	
47-3572	OZ	86.6	140.61	0.438	53	29.8	32.6	35.4	2338.4	15.86	31.92	A1
		4656.4	3571.6	11.112	1371	145.4	159	172.7	319333.6	4.83	9.73	
47-3561	OZ	86.8	140.21	0.5	50	31.7	34.8	37.8	2170.8	15.37	30.94	B2
		4668.3	3561.4	12.7	1270	155	169.8	184.6	296439	4.68	9.43	
47-3206	OZ	86.9	126.21	0.875	36	41.3	44.7	48.1	1563.7	13.54	27.27	B2
		4670.7	3205.8	22.225	914	201.9	218.3	234.8	213543.5	4.13	8.31	
47-3752	OZ	86.9	147.72	0.5	52	31	33.8	36.7	2259.9	15.6	31.4	B1
		4673.1	3752.2	12.7	1320	151.2	165.3	179.3	308614.1	4.75	9.57	
47-2374	OZ	87	93.48	0.625	36	39.5	42.5	45.5	1566.1	10.81	21.63	A3
		4677.6	2374.4	15.875	914	192.7	207.5	222.4	213858.3	3.3	6.59	
47-3381	OZ	87	133.1	0.438	52	30.6	33.6	36.6	2263	15.63	31.46	A2
		4679.6	3380.8	11.112	1320	149.6	164	178.5	309038.9	4.76	9.59	
47-3470	OZ	87.2	136.61	0.5	50	31.9	34.8	37.6	2179.8	15.34	30.87	A1
		4687.7	3470	12.7	1270	155.7	169.7	183.8	297667.7	4.67	9.41	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
47-2324	OZ	87.3	91.48	0.688	34	41.4	44.5	47.7	1484.4	10.55	21.11	A3
		4694.4	2323.6	17.462	863	202.3	217.5	232.7	202706.2	3.22	6.43	
47-3612	OZ	87.4	142.21	0.472	52	30.9	33.9	36.9	2272.5	15.63	31.46	B2
		4699.1	3612.2	12	1320	151	165.6	180.2	310326.9	4.76	9.59	
47-3803	OZ	87.4	149.72	0.472	53	30.2	33	35.8	2360.7	15.86	31.92	B1
		4700.7	3803	12	1371	147.3	161.1	174.9	322375	4.83	9.73	
47-3279	OZ	87.5	129.1	0.5	48	32.8	35.8	38.9	2100	15.11	30.41	A2
		4704.2	3279.2	12.7	1219	160	174.9	189.8	286768.6	4.61	9.27	
47-3409	OZ	87.7	134.21	0.625	43	35.4	38.6	41.8	1929.5	14.59	29.37	B2
		4715.3	3409	15.875	1117	172.9	188.4	203.9	263488.9	4.45	8.95	
47-3397	OZ	87.8	133.72	0.875	38	40.7	43.9	47	1668.2	13.77	27.73	B1
		4720.5	3396.6	22.225	965	198.6	214.1	229.6	227811.6	4.2	8.45	
47-3318	OZ	87.8	130.61	0.625	43	35.7	38.7	41.7	1932.3	14.55	29.3	A1
		4722	3317.6	15.875	1117	174.1	188.8	203.5	263866.3	4.44	8.93	
47-3521	OZ	87.8	138.61	0.472	52	31	33.9	36.7	2284	15.6	31.4	A1
		4722.9	3520.8	12	1320	151.6	165.4	179.3	311898.4	4.75	9.57	
47-3012	OZ	87.9	118.59	0.394	52	29.9	32.6	35.3	2285	12.91	25.82	B3
		4724.9	3012.2	10	1320	146.2	159.2	172.1	312031.8	3.93	7.87	
47-3127	OZ	87.9	123.1	0.625	42	36.6	39.8	43	1845.8	14.32	28.84	A2
		4725.5	3126.8	15.875	1066	178.5	194.2	209.8	252060.2	4.37	8.79	
47-2873	OZ	87.9	113.1	1	31	45.6	49.1	52.6	1406.7	13.01	26.23	A2
		4726.7	2872.8	25.4	812	222.8	239.8	256.8	192093	3.97	7.99	
47-3482	OZ	87.9	137.1	0.394	56	29.1	32	34.9	2462.2	16.16	32.51	A2
		4727.7	3482.4	10	1422	142.2	156.2	170.3	336234.4	4.92	9.91	
47-2974	OZ	88	117.1	0.812	36	41.4	44.8	48.2	1583.8	13.54	27.27	A2
		4730.6	2974.4	20.638	914	202.3	218.7	235.2	216281.5	4.13	8.31	
47-3330	OZ	88.2	131.1	0.472	50	31.9	34.9	37.9	2204.9	15.37	30.94	A2
		4741.7	3330	12	1270	155.9	170.6	185.3	301096.6	4.68	9.43	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
47-3165	OZ	88.3	124.61	0.812	38	40.6	43.7	46.9	1677	13.77	27.73	A1
		4745.4	3165.2	20.638	965	198.1	213.5	228.9	229012.4	4.2	8.45	
47-2527	OZ	88.3	99.48	0.5	42	35.3	38.2	41	1853.7	11.6	23.2	A3
		4745.7	2526.8	12.7	1066	172.5	186.5	200.4	253135.7	3.54	7.07	
48-3257	OZ	88.5	128.21	0.812	38	40.2	43.5	46.8	1681.3	13.8	27.8	B2
		4757.5	3256.6	20.638	965	196.2	212.4	228.6	229595.5	4.21	8.47	
48-3064	OZ	88.5	120.61	1	34	44.9	48.1	51.4	1504.7	13.24	26.68	A1
		4758.7	3063.6	25.4	863	219.2	235.1	251	205478.8	4.04	8.13	
48-3063	OZ	88.6	120.59	0.375	53	29.2	31.8	34.5	2392.3	13.17	26.34	B3
		4763.7	3063	9.525	1371	142.7	155.5	168.2	326694.2	4.01	8.03	
48-3076	OZ	89	121.1	0.688	40	38.4	41.7	44.9	1779.2	14.06	28.32	A2
		4782.7	3076	17.462	1016	187.5	203.4	219.3	242960.9	4.29	8.63	
48-3025	OZ	89	119.1	0.75	38	40	43.3	46.7	1690.3	13.8	27.8	A2
		4782.9	3025.2	19.05	965	195.4	211.6	227.8	230820.7	4.21	8.47	
48-3358	OZ	89	132.21	0.688	42	37.2	40.4	43.6	1868.7	14.32	28.84	B2
		4784.1	3358.2	17.462	1066	181.7	197.4	213.1	255182.2	4.37	8.79	
48-2504	OZ	89	98.59	0.875	31	45	48.2	51.4	1424.1	10.29	20.58	B3
		4785.3	2504.2	22.225	812	219.8	235.4	251	194474.2	3.14	6.27	
48-3267	OZ	89	128.61	0.688	42	37.5	40.6	43.6	1869.8	14.29	28.78	A1
		4786.9	3266.8	17.462	1066	183.1	198.1	213	255333	4.36	8.77	
48-3155	OZ	89.1	124.21	1	34	44.4	47.8	51.2	1514.1	13.28	26.75	B2
		4788.4	3155	25.4	863	216.6	233.3	250	206762.5	4.05	8.15	
48-3216	OZ	89.2	126.61	0.75	40	39.1	42.3	45.4	1783.1	14.03	28.25	A1
		4793.3	3216	19.05	1016	191.1	206.3	221.5	243501.2	4.28	8.61	
48-3307	OZ	89.2	130.21	0.75	40	38.8	42.1	45.3	1784.4	14.06	28.32	B2
		4796.8	3307.4	19.05	1016	189.4	205.4	221.3	243675	4.29	8.63	
48-3447	OZ	89.3	135.72	0.812	40	39.5	42.6	45.7	1786.7	14.03	28.25	B1
		4802.9	3447.4	20.638	1016	192.7	208	223.2	243985.3	4.28	8.61	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
48-2578	OZ	89.4	101.48	0.472	43	34.4	37.2	40	1966.9	11.86	23.72	A3
		4806.6	2577.6	12	1117	168	181.6	195.3	268595.3	3.62	7.23	
48-3549	OZ	89.6	139.72	0.688	43	36.4	39.5	42.5	1970.2	14.55	29.3	B1
		4814.8	3549	17.462	1117	178	192.8	207.6	269053	4.44	8.93	
48-2758	OZ	89.7	108.59	0.562	42	36.2	39.1	42	1884.2	11.6	23.2	B3
		4824	2758.2	14.288	1066	176.9	191.1	205.3	257309.5	3.54	7.07	
48-2222	OZ	89.9	87.48	0.875	30	47.1	50.4	53.6	1348.1	10.03	20.06	A3
		4832.1	2222	22.225	762	230.1	245.9	261.8	184101.8	3.06	6.11	
48-3498	OZ	89.9	137.72	0.75	42	38.1	41.1	44.2	1888.8	14.29	28.78	B1
		4835.6	3498.2	19.05	1066	185.8	200.8	215.9	257932.9	4.36	8.77	
49-2730	OZ	90.2	107.48	0.394	50	31.2	33.9	36.5	2255.9	12.65	25.29	A3
		4851.3	2730	10	1270	152.6	165.5	178.4	308060.1	3.85	7.71	
49-3346	OZ	90.3	131.72	1	36	43.7	47	50.2	1626.1	13.51	27.21	B1
		4856.8	3345.8	25.4	914	213.6	229.3	245	222052.1	4.12	8.29	
49-3346	OZ	90.3	131.72	1	36	43.7	47	50.2	1626.1	13.51	27.21	B1
		4856.8	3345.8	25.4	914	213.6	229.3	245	222052.1	4.12	8.29	
49-2453	OZ	90.4	96.59	1	30	48.3	51.6	54.8	1356.7	10.03	20.06	B3
		4862.6	2453.4	25.4	762	235.8	251.7	267.7	185265.4	3.06	6.11	
49-3511	OZ	90.9	138.21	0.562	48	34	37.1	40.2	2181.9	15.11	30.41	B2
		4887.8	3510.6	14.288	1219	166	181	196	297958.7	4.61	9.27	
49-3714	OZ	90.9	146.21	0.438	56	30.1	33	35.9	2545.8	16.16	32.51	B2
		4888.3	3713.8	11.112	1422	146.7	160.9	175.1	347652.7	4.92	9.91	
49-2171	OZ	91	85.48	1	28	50.5	53.8	57.1	1273.5	9.77	19.54	A3
		4890.4	2171.2	25.4	711	246.6	262.8	279	173902.1	2.98	5.95	
49-2781	OZ	91	109.48	0.375	52	30.5	33.1	35.7	2366.9	12.91	25.82	A3
		4894.3	2780.8	9.525	1320	148.8	161.5	174.1	323216.4	3.93	7.87	
49-2924	OZ	91.2	115.1	0.938	34	44.8	48.3	51.7	1549.6	13.28	26.75	A2
		4900.7	2923.6	23.812	863	218.9	235.6	252.4	211610.2	4.05	8.15	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
49-3701	OZ	91.2	145.72	0.562	50	33.2	36.1	39	2280.4	15.34	30.87	B1
		4904	3701.4	14.288	1270	162.2	176.4	190.6	311404.3	4.67	9.41	
49-2555	OZ	91.2	100.59	0.812	34	43.8	46.9	50	1551	10.55	21.11	B3
		4905	2555	20.638	863	213.8	229.1	244.3	211799.3	3.22	6.43	
49-3419	OZ	91.3	134.61	0.562	48	34.2	37.1	40	2191.3	15.08	30.35	A1
		4908.9	3419.2	14.288	1219	167	181.2	195.5	299246.3	4.6	9.25	
49-3622	OZ	91.6	142.61	0.438	56	30.1	32.9	35.7	2563.9	16.12	32.44	A1
		4923	3622.4	11.112	1422	147.2	160.6	174.1	350122	4.91	9.89	
49-2961	OZ	91.6	116.59	0.438	50	32	34.7	37.4	2290	12.65	25.29	B3
		4924.8	2961.4	11.112	1270	156.1	169.3	182.4	312725.1	3.85	7.71	
49-2476	OZ	91.6	97.48	0.562	40	37.9	40.9	43.8	1832.1	11.34	22.68	A3
		4925.1	2476	14.288	1016	185.3	199.5	213.7	250193.9	3.46	6.91	
49-3114	OZ	91.8	122.61	0.938	36	44	47.2	50.4	1651.9	13.51	27.21	A1
		4934.1	3114.4	23.812	914	214.9	230.6	246.2	225586.6	4.12	8.29	
49-2707	OZ	91.9	106.59	0.625	40	38.5	41.4	44.4	1837.1	11.34	22.68	B3
		4938.4	2707.4	15.875	1016	187.9	202.3	216.7	250871.8	3.46	6.91	
49-3432	OZ	91.9	135.1	0.438	53	31	33.9	36.9	2482.6	15.89	31.98	A2
		4943.3	3431.6	11.112	1371	151.4	165.7	179.9	339014.7	4.84	9.75	
49-3206	OZ	92.1	126.21	0.938	36	43.5	46.9	50.3	1657	13.54	27.27	B2
		4949.2	3205.8	23.812	914	212.5	228.9	245.4	226276.7	4.13	8.31	
49-3612	OZ	92.1	142.21	0.5	52	32.2	35.2	38.2	2393.8	15.63	31.46	B2
		4950	3612.2	12.7	1320	157.2	171.8	186.4	326895.7	4.76	9.59	
50-3803	OZ	92.2	149.72	0.5	53	31.4	34.3	37.1	2490	15.86	31.92	B1
		4958.3	3803	12.7	1371	153.4	167.2	181.1	340037.3	4.83	9.73	
50-2273	OZ	92.3	89.48	0.812	31	45.9	49	52.2	1477.4	10.29	20.58	A3
		4964.4	2272.8	20.638	812	223.9	239.4	254.9	201754.8	3.14	6.27	
50-3663	OZ	92.5	144.21	0.472	53	31.3	34.3	37.2	2496.6	15.89	31.98	B2
		4971.3	3663	12	1371	153	167.4	181.8	340928.9	4.84	9.75	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
50-2606	OZ	92.5	102.59	0.75	36	42.3	45.3	48.4	1665.3	10.81	21.63	B3
		4974.1	2605.8	19.05	914	206.4	221.4	236.4	227416.2	3.3	6.59	
50-3854	OZ	92.5	151.72	0.472	56	30.6	33.4	36.2	2591.4	16.12	32.44	B1
		4975.8	3853.8	12	1422	149.2	162.9	176.5	353877.2	4.91	9.89	
50-3521	OZ	92.6	138.61	0.5	52	32.3	35.2	38	2408.5	15.6	31.4	A1
		4980.3	3520.8	12.7	1320	157.9	171.8	185.6	328897.4	4.75	9.57	
50-3063	OZ	92.7	120.59	0.394	53	30.3	32.9	35.5	2502.6	13.17	26.34	B3
		4983.2	3063	10	1371	147.9	160.6	173.4	341746.7	4.01	8.03	
50-2911	OZ	92.7	114.59	0.472	48	33.4	36.1	38.9	2225.4	12.39	24.77	B3
		4985.3	2910.6	12	1219	163	176.4	189.8	303902	3.78	7.55	
50-2657	OZ	92.8	104.59	0.688	38	40.5	43.5	46.5	1762.4	11.08	22.15	B3
		4986.9	2656.6	17.462	965	197.7	212.4	227.1	240669.4	3.38	6.75	
50-3330	OZ	92.9	131.1	0.5	50	33.2	36.3	39.3	2321.6	15.37	30.94	A2
		4992.7	3330	12.7	1270	162.3	177	191.7	317038.4	4.68	9.43	
50-3572	OZ	93.1	140.61	0.472	53	31.5	34.3	37.1	2513.7	15.86	31.92	A1
		5005.3	3571.6	12	1371	153.6	167.3	180.9	343261.3	4.83	9.73	
50-3114	OZ	93.3	122.59	0.375	56	29.5	32.1	34.7	2611.4	13.43	26.87	B3
		5014.2	3113.8	9.525	1422	144.2	156.8	169.3	356612.2	4.09	8.19	
50-3397	OZ	93.3	133.72	0.938	38	42.8	46	49.2	1772.6	13.77	27.73	B1
		5015.8	3396.6	23.812	965	209.2	224.7	240.2	242064.7	4.2	8.45	
50-3381	OZ	93.4	133.1	0.472	52	32.4	35.3	38.3	2428	15.63	31.46	A2
		5020.7	3380.8	12	1320	158	172.4	186.9	331567.3	4.76	9.59	
50-2425	OZ	93.6	95.48	0.625	38	40.3	43.3	46.3	1778.2	11.08	22.15	A3
		5031.7	2425.2	15.875	965	196.8	211.4	225.9	242832	3.38	6.75	
50-2974	OZ	93.6	117.1	0.875	36	43.8	47.1	50.5	1685.4	13.54	27.27	A2
		5034	2974.4	22.225	914	213.7	230.2	246.6	230156.6	4.13	8.31	
50-2324	OZ	93.9	91.48	0.75	34	44.3	47.4	50.5	1595.5	10.55	21.11	A3
		5046	2323.6	19.05	863	216.3	231.4	246.6	217886.1	3.22	6.43	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
51-2679	OZ	93.9	105.48	0.438	48	33.4	36.1	38.8	2254.6	12.39	24.77	A3
		5050.7	2679.2	11.112	1219	163	176.2	189.3	307890.5	3.78	7.55	
51-2578	OZ	94	101.48	0.5	43	35.9	38.7	41.5	2068.8	11.86	23.72	A3
		5055.8	2577.6	12.7	1117	175.3	188.9	202.6	282516.8	3.62	7.23	
51-3178	OZ	94.1	125.1	0.625	43	37.3	40.4	43.6	2070	14.59	29.37	A2
		5058.6	3177.6	15.875	1117	181.9	197.3	212.7	282676.8	4.45	8.95	
51-2504	OZ	94.1	98.59	0.938	31	47.5	50.7	53.9	1506.3	10.29	20.58	B3
		5061.4	2504.2	23.812	812	231.8	247.4	263	205696.5	3.14	6.27	
51-3165	OZ	94.2	124.61	0.875	38	42.9	46.1	49.2	1790.2	13.77	27.73	A1
		5065.6	3165.2	22.225	965	209.5	224.9	240.3	244466.4	4.2	8.45	
51-3651	OZ	94.3	143.72	0.625	48	35.3	38.2	41.2	2262.7	15.08	30.35	B1
		5068.7	3650.6	15.875	1219	172.3	186.7	201.1	308985.4	4.6	9.25	
51-3257	OZ	94.3	128.21	0.875	38	42.5	45.8	49.1	1791.3	13.8	27.8	B2
		5068.7	3256.6	22.225	965	207.3	223.5	239.7	244615.8	4.21	8.47	
51-2374	OZ	94.3	93.48	0.688	36	42.4	45.5	48.5	1697.6	10.81	21.63	A3
		5070.3	2374.4	17.462	914	207.2	222.1	236.9	231815.7	3.3	6.59	
51-2222	OZ	94.9	87.48	0.938	30	49.7	53	56.2	1423.6	10.03	20.06	A3
		5102.3	2222	23.812	762	242.7	258.5	274.4	194398.8	3.06	6.11	
51-2781	OZ	95.2	109.48	0.394	52	31.6	34.2	36.8	2475.1	12.91	25.82	A3
		5118.1	2780.8	10	1320	154.3	166.9	179.6	337997.1	3.93	7.87	
51-3025	OZ	95.3	119.1	0.812	38	42.5	45.8	49.1	1809.9	13.8	27.8	A2
		5121.4	3025.2	20.638	965	207.4	223.6	239.8	247157.4	4.21	8.47	
51-3447	OZ	95.4	135.72	0.875	40	41.7	44.9	48	1908.7	14.03	28.25	B1
		5130.9	3447.4	22.225	1016	203.8	219	234.3	260650.3	4.28	8.61	
51-3409	OZ	95.5	134.21	0.688	43	38	41.1	44.3	2100.2	14.59	29.37	B2
		5132.4	3409	17.462	1117	185.4	200.9	216.3	286799.6	4.45	8.95	
51-3127	OZ	95.6	123.1	0.688	42	39.2	42.4	45.6	2007	14.32	28.84	A2
		5138.1	3126.8	17.462	1066	191.5	207.1	222.8	274067	4.37	8.79	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
51-3307	OZ	95.6	130.21	0.812	40	41.2	44.4	47.7	1912.8	14.06	28.32	B2
		5142	3307.4	20.638	1016	201	216.9	232.9	261216	4.29	8.63	
51-3216	OZ	95.8	126.61	0.812	40	41.6	44.7	47.8	1915.2	14.03	28.25	A1
		5148.4	3216	20.638	1016	203	218.2	233.4	261540.7	4.28	8.61	
52-3318	OZ	95.8	130.61	0.688	43	38.3	41.3	44.3	2107.7	14.55	29.3	A1
		5150.7	3317.6	17.462	1117	186.9	201.6	216.3	287819.2	4.44	8.93	
52-2832	OZ	95.8	111.48	0.375	53	30.8	33.3	35.9	2587.8	13.17	26.34	A3
		5153	2831.6	9.525	1371	150.3	162.8	175.2	353391.8	4.01	8.03	
52-2809	OZ	95.9	110.59	0.562	43	36.9	39.7	42.6	2109.2	11.86	23.72	B3
		5154.5	2809	14.288	1117	180.1	194	207.9	288033.2	3.62	7.23	
52-3076	OZ	95.9	121.1	0.75	40	41	44.2	47.5	1918.6	14.06	28.32	A2
		5157.6	3076	19.05	1016	200	215.9	231.8	262006.1	4.29	8.63	
52-3358	OZ	96.1	132.21	0.75	42	39.7	42.9	46.1	2017.3	14.32	28.84	B2
		5164.7	3358.2	19.05	1066	193.7	209.4	225.1	275484.4	4.37	8.79	
52-2924	OZ	96.1	115.1	1	34	47.1	50.5	53.9	1633.9	13.28	26.75	A2
		5167.4	2923.6	25.4	863	229.8	246.5	263.3	223127.6	4.05	8.15	
52-3267	OZ	96.3	128.61	0.75	42	40	43.1	46.2	2022.6	14.29	28.78	A1
		5178.2	3266.8	19.05	1066	195.5	210.4	225.3	276203.3	4.36	8.77	
52-3498	OZ	96.7	137.72	0.812	42	40.4	43.5	46.6	2030.2	14.29	28.78	B1
		5197.7	3498.2	20.638	1066	197.3	212.3	227.4	277242.9	4.36	8.77	
52-3561	OZ	96.7	140.21	0.562	50	34.5	37.6	40.6	2417	15.37	30.94	B2
		5197.7	3561.4	14.288	1270	168.7	183.5	198.3	330056.4	4.68	9.43	
52-3012	OZ	96.9	118.59	0.438	52	32.4	35	37.7	2518.1	12.91	25.82	B3
		5207	3012.2	11.112	1320	158.1	171	184	343873.3	3.93	7.87	
52-3549	OZ	96.9	139.72	0.75	43	38.9	41.9	45	2132.8	14.55	29.3	B1
		5212	3549	19.05	1117	189.9	204.7	219.5	291247.7	4.44	8.93	
52-3482	OZ	97	137.1	0.438	56	31.4	34.3	37.1	2715	16.16	32.51	A2
		5213.1	3482.4	11.112	1422	153.2	167.3	181.3	370753.7	4.92	9.91	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
52-2555	OZ	97	100.59	0.875	34	46.4	49.5	52.6	1649.8	10.55	21.11	B3
		5217.4	2555	22.225	863	226.4	241.6	256.9	225288.9	3.22	6.43	
52-3114	OZ	97	122.61	1	36	46.2	49.5	52.7	1746.9	13.51	27.21	A1
		5217.6	3114.4	25.4	914	225.8	241.5	257.1	238550.5	4.12	8.29	
52-3114	OZ	97	122.61	1	36	46.2	49.5	52.7	1746.9	13.51	27.21	A1
		5217.6	3114.4	25.4	914	225.8	241.5	257.1	238550.6	4.12	8.29	
52-3752	OZ	97.1	147.72	0.562	52	33.7	36.6	39.5	2523.4	15.6	31.4	B1
		5218	3752.2	14.288	1320	164.7	178.8	192.8	344598.4	4.75	9.57	
52-3206	OZ	97.2	126.21	1	36	45.7	49.1	52.4	1749.2	13.54	27.27	B2
		5224.6	3205.8	25.4	914	223.1	239.5	256	238871	4.13	8.31	
52-3206	OZ	97.2	126.21	1	36	45.7	49.1	52.4	1749.2	13.54	27.27	B2
		5224.7	3205.8	25.4	914	223.1	239.5	256	238871	4.13	8.31	
52-3470	OZ	97.3	136.61	0.562	50	34.8	37.6	40.5	2432.4	15.34	30.87	A1
		5231	3470	14.288	1270	169.7	183.7	197.8	332170.6	4.67	9.41	
52-3279	OZ	97.3	129.1	0.562	48	35.7	38.7	41.8	2335.9	15.11	30.41	A2
		5232.7	3279.2	14.288	1219	174.2	189.1	204.1	318984.4	4.61	9.27	
52-3663	OZ	97.4	144.21	0.5	53	32.6	35.6	38.5	2630.9	15.89	31.98	B2
		5238.6	3663	12.7	1371	159.4	173.8	188.2	359266.4	4.84	9.75	
52-3114	OZ	97.6	122.59	0.394	56	30.6	33.2	35.8	2732.5	13.43	26.87	B3
		5246.8	3113.8	10	1422	149.5	162	174.6	373151.5	4.09	8.19	
52-2911	OZ	97.6	114.59	0.5	48	34.8	37.6	40.3	2343.3	12.39	24.77	B3
		5249.3	2910.6	12.7	1219	170.1	183.5	196.9	319998.7	3.78	7.55	
52-3854	OZ	97.6	151.72	0.5	56	31.9	34.6	37.4	2734	16.12	32.44	B1
		5249.6	3853.8	12.7	1422	155.5	169.2	182.8	373354.1	4.91	9.89	
52-3714	OZ	97.6	146.21	0.472	56	31.7	34.7	37.6	2734.1	16.16	32.51	B2
		5249.8	3713.8	12	1422	155	169.2	183.4	373364.9	4.92	9.91	
53-2527	OZ	97.9	99.48	0.562	42	38.6	41.5	44.3	2056.8	11.6	23.2	A3
		5265.7	2526.8	14.288	1066	188.6	202.6	216.5	280873.5	3.54	7.07	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
53-2273	OZ	98.1	89.48	0.875	31	48.6	51.8	54.9	1569.1	10.29	20.58	A3
		5272.5	2272.8	22.225	812	237.2	252.7	268.2	214274.1	3.14	6.27	
53-3572	OZ	98.2	140.61	0.5	53	32.8	35.6	38.4	2651.4	15.86	31.92	A1
		5279.5	3571.6	12.7	1371	160.1	173.8	187.5	362068	4.83	9.73	
53-2961	OZ	98.3	116.59	0.472	50	33.9	36.6	39.3	2457.1	12.65	25.29	B3
		5284.1	2961.4	12	1270	165.3	178.5	191.7	335540	3.85	7.71	
53-3381	OZ	98.4	133.1	0.5	52	33.7	36.7	39.6	2557.7	15.63	31.46	A2
		5288.8	3380.8	12.7	1320	164.6	179.1	193.5	349270.2	4.76	9.59	
53-3622	OZ	98.5	142.61	0.472	56	31.9	34.6	37.4	2756.9	16.12	32.44	A1
		5293.6	3622.4	12	1422	155.6	169.1	182.6	376483	4.91	9.89	
53-2758	OZ	98.5	108.59	0.625	42	39.3	42.2	45.1	2068.6	11.6	23.2	B3
		5296	2758.2	15.875	1066	191.6	205.8	220	282487.9	3.54	7.07	
53-3432	OZ	98.7	135.1	0.472	53	32.8	35.7	38.6	2664.9	15.89	31.98	A2
		5306.5	3431.6	12	1371	160	174.3	188.5	363918.5	4.84	9.75	
53-3397	OZ	98.7	133.72	1	38	45	48.2	51.4	1875.9	13.77	27.73	B1
		5308.1	3396.6	25.4	965	219.8	235.3	250.7	256170.6	4.2	8.45	
53-2606	OZ	99	102.59	0.812	36	45	48	51.1	1782.6	10.81	21.63	B3
		5324.3	2605.8	20.638	914	219.5	234.5	249.5	243427.8	3.3	6.59	
53-2504	OZ	99.2	98.59	1	31	49.9	53.1	56.3	1587.4	10.29	20.58	B3
		5334.2	2504.2	25.4	812	243.7	259.3	274.9	216780.3	3.14	6.27	
53-2974	OZ	99.2	117.1	0.938	36	46.1	49.5	52.9	1785.9	13.54	27.27	A2
		5334.2	2974.4	23.812	914	225.2	241.6	258.1	243880.3	4.13	8.31	
53-2730	OZ	99.4	107.48	0.438	50	33.8	36.5	39.1	2484.1	12.65	25.29	A3
		5342.2	2730	11.112	1270	165.1	178	190.9	339232.3	3.85	7.71	
54-2707	OZ	99.9	106.59	0.688	40	41.4	44.3	47.3	1997.1	11.34	22.68	B3
		5368.5	2707.4	17.462	1016	202.1	216.5	231	272720.8	3.46	6.91	
54-2222	OZ	99.9	87.48	1	30	52.3	55.5	58.8	1498	10.03	20.06	A3
		5369	2222	25.4	762	255.2	271.1	287	204559	3.06	6.11	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
54-2657	OZ	100	104.59	0.75	38	43.3	46.3	49.3	1900	11.08	22.15	B3
		5376.4	2656.6	19.05	965	211.4	226.1	240.8	259465.2	3.38	6.75	
54-3257	OZ	100	128.21	0.938	38	44.7	48	51.4	1900.1	13.8	27.8	B2
		5376.7	3256.6	23.812	965	218.3	234.5	250.7	259481.6	4.21	8.47	
54-3511	OZ	100	138.21	0.625	48	36.7	39.8	42.9	2400.5	15.11	30.41	B2
		5377.5	3510.6	15.875	1219	179.3	194.3	209.3	327810.8	4.61	9.27	
54-3165	OZ	100.1	124.61	0.938	38	45.2	48.4	51.6	1902.2	13.77	27.73	A1
		5382.5	3165.2	23.812	965	220.9	236.3	251.7	259761.5	4.2	8.45	
54-2832	OZ	100.3	111.48	0.394	53	31.9	34.5	37	2707.1	13.17	26.34	A3
		5390.4	2831.6	10	1371	155.9	168.4	180.8	369674.5	4.01	8.03	
54-2324	OZ	100.3	91.48	0.812	34	47.1	50.2	53.4	1705.4	10.55	21.11	A3
		5393.5	2323.6	20.638	863	230.1	245.3	260.5	232891.7	3.22	6.43	
54-2476	OZ	100.4	97.48	0.625	40	41.1	44.1	47	2008.8	11.34	22.68	A3
		5400	2476	15.875	1016	200.8	215.1	229.3	274317.5	3.46	6.91	
54-3701	OZ	100.6	145.72	0.625	50	35.9	38.8	41.7	2515.4	15.34	30.87	B1
		5409.5	3701.4	15.875	1270	175.3	189.5	203.7	343505.7	4.67	9.41	
54-3419	OZ	100.7	134.61	0.625	48	37	39.9	42.8	2415.8	15.08	30.35	A1
		5411.7	3419.2	15.875	1219	180.6	194.8	209.1	329896.5	4.6	9.25	
54-2679	OZ	100.7	105.48	0.472	48	35.4	38.1	40.8	2417.6	12.39	24.77	A3
		5415.8	2679.2	12	1219	172.8	186	199.1	330149.7	3.78	7.55	
54-2882	OZ	100.8	113.48	0.375	56	31.1	33.6	36.1	2821.1	13.43	26.87	A3
		5416.8	2882.4	9.525	1422	151.8	164.1	176.3	385241.2	4.09	8.19	
55-3447	OZ	101.5	135.72	0.938	40	44	47.1	50.2	2029.5	14.03	28.25	B1
		5455.8	3447.4	23.812	1016	214.8	230	245.3	277152.9	4.28	8.61	
55-3025	OZ	101.5	119.1	0.875	38	44.9	48.2	51.6	1928.3	13.8	27.8	A2
		5456.4	3025.2	22.225	965	219.4	235.5	251.7	263326.6	4.21	8.47	
55-2374	OZ	101.5	93.48	0.75	36	45.4	48.4	51.5	1827.6	10.81	21.63	A3
		5458.9	2374.4	19.05	914	221.7	236.5	251.4	249579.3	3.3	6.59	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
55-2425	OZ	101.6	95.48	0.688	38	43.4	46.4	49.4	1930.5	11.08	22.15	A3
		5462.8	2425.2	17.462	965	211.9	226.4	241	263632.8	3.38	6.75	
55-3307	OZ	102	130.21	0.875	40	43.5	46.8	50.1	2040	14.06	28.32	B2
		5484	3307.4	22.225	1016	212.5	228.5	244.4	278586.4	4.29	8.63	
55-3063	OZ	102.2	120.59	0.438	53	32.8	35.4	38	2759.8	13.17	26.34	B3
		5495.5	3063	11.112	1371	160	172.7	185.5	376878.6	4.01	8.03	
55-3216	OZ	102.3	126.61	0.875	40	44	47.1	50.2	2046	14.03	28.25	A1
		5500.1	3216	22.225	1016	214.9	230	245.2	279404.8	4.28	8.61	
55-3178	OZ	102.4	125.1	0.688	43	40	43.2	46.3	2253.1	14.59	29.37	A2
		5506.2	3177.6	17.462	1117	195.3	210.7	226.1	307685	4.45	8.95	
55-3612	OZ	102.6	142.21	0.562	52	35.1	38.1	41.1	2667.5	15.63	31.46	B2
		5516	3612.2	14.288	1320	171.2	185.8	200.4	364274.6	4.76	9.59	
55-2555	OZ	102.8	100.59	0.938	34	48.9	52.1	55.2	1747.4	10.55	21.11	B3
		5526.2	2555	23.812	863	238.9	254.2	269.4	238622.4	3.22	6.43	
55-3076	OZ	102.8	121.1	0.812	40	43.5	46.8	50	2056.7	14.06	28.32	A2
		5528.9	3076	20.638	1016	212.4	228.3	244.2	280866.6	4.29	8.63	
55-3714	OZ	102.9	146.21	0.5	56	33.1	36	38.9	2882.1	16.16	32.51	B2
		5534	3713.8	12.7	1422	161.5	175.7	189.9	393576	4.92	9.91	
55-3651	OZ	103	143.72	0.688	48	37.9	40.8	43.8	2471.2	15.08	30.35	B1
		5535.8	3650.6	17.462	1219	185	199.4	213.8	337462.9	4.6	9.25	
55-3803	OZ	103	149.72	0.562	53	34.3	37.1	39.9	2781.9	15.86	31.92	B1
		5539.3	3803	14.288	1371	167.2	181.1	194.9	379887.4	4.83	9.73	
55-3358	OZ	103.1	132.21	0.812	42	42.1	45.3	48.6	2164.6	14.32	28.84	B2
		5541.8	3358.2	20.638	1066	205.7	221.4	237.1	295599.3	4.37	8.79	
55-3409	OZ	103.2	134.21	0.75	43	40.5	43.7	46.8	2269.4	14.59	29.37	B2
		5545.9	3409	19.05	1117	197.8	213.3	228.7	309905.8	4.45	8.95	
55-3127	OZ	103.2	123.1	0.75	42	41.9	45.1	48.3	2166.6	14.32	28.84	A2
		5546.9	3126.8	19.05	1066	204.4	220	235.7	295871.7	4.37	8.79	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
56-3498	OZ	103.3	137.72	0.875	42	42.8	45.8	48.9	2170.3	14.29	28.78	B1
		5556.3	3498.2	22.225	1066	208.8	223.8	238.8	296374.4	4.36	8.77	
56-3330	OZ	103.4	131.1	0.562	50	36.2	39.2	42.3	2584.9	15.37	30.94	A2
		5558.9	3330	14.288	1270	176.9	191.6	206.3	352991.8	4.68	9.43	
56-3521	OZ	103.4	138.61	0.562	52	35.3	38.1	41	2689.3	15.6	31.4	A1
		5561	3520.8	14.288	1320	172.3	186.2	200	367246.6	4.75	9.57	
56-3267	OZ	103.5	128.61	0.812	42	42.6	45.6	48.7	2174	14.29	28.78	A1
		5565.8	3266.8	20.638	1066	207.8	222.7	237.7	296881	4.36	8.77	
56-2961	OZ	103.5	116.59	0.5	50	35.3	38	40.7	2588.4	12.65	25.29	B3
		5566.4	2961.4	12.7	1270	172.5	185.7	198.9	353466	3.85	7.71	
56-3318	OZ	103.7	130.61	0.75	43	40.9	43.9	46.9	2281.5	14.55	29.3	A1
		5575.6	3317.6	19.05	1117	199.7	214.4	229.1	311562	4.44	8.93	
56-2273	OZ	103.7	89.48	0.938	31	51.3	54.5	57.6	1659.6	10.29	20.58	A3
		5576.7	2272.8	23.812	812	250.4	265.9	281.4	226639	3.14	6.27	
56-3622	OZ	103.9	142.61	0.5	56	33.2	36	38.8	2908.7	16.12	32.44	A1
		5585	3622.4	12.7	1422	162.3	175.8	189.2	397204.1	4.91	9.89	
56-3012	OZ	104	118.59	0.472	52	34.3	37	39.6	2703.3	12.91	25.82	B3
		5589.9	3012.2	12	1320	167.5	180.4	193.4	369158.5	3.93	7.87	
56-3432	OZ	104	135.1	0.5	53	34.2	37.1	40	2808.3	15.89	31.98	A2
		5591.9	3431.6	12.7	1371	166.8	181.1	195.3	383492.5	4.84	9.75	
56-3482	OZ	104.1	137.1	0.472	56	33.2	36.1	38.9	2915.8	16.16	32.51	A2
		5598.6	3482.4	12	1422	162	176.1	190.1	398174.5	4.92	9.91	
56-3549	OZ	104.3	139.72	0.812	43	41.3	44.4	47.4	2293.9	14.55	29.3	B1
		5605.7	3549	20.638	1117	201.8	216.6	231.4	313246.5	4.44	8.93	
56-2578	OZ	104.5	101.48	0.562	43	39.3	42.1	44.9	2298.6	11.86	23.72	A3
		5617.2	2577.6	14.288	1117	191.8	205.5	219.2	313890.9	3.62	7.23	
56-2974	OZ	104.7	117.1	1	36	48.5	51.8	55.2	1885.3	13.54	27.27	A2
		5631.1	2974.4	25.4	914	236.6	253	269.5	257454.5	4.13	8.31	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
56-2974	OZ	104.7	117.1	1	36	48.5	51.8	55.2	1885.3	13.54	27.27	A2
		5631.1	2974.4	25.4	914	236.6	253	269.5	257454.5	4.13	8.31	
56-2781	OZ	104.9	109.48	0.438	52	34.2	36.8	39.4	2727.7	12.91	25.82	A3
		5640.3	2780.8	11.112	1320	167.1	179.8	192.4	372488.2	3.93	7.87	
57-2809	OZ	105.4	110.59	0.625	43	40	42.8	45.7	2318.2	11.86	23.72	B3
		5665.2	2809	15.875	1117	195.3	209.2	223.1	316571.8	3.62	7.23	
57-2882	OZ	105.4	113.48	0.394	56	32.3	34.8	37.3	2951.9	13.43	26.87	A3
		5668	2882.4	10	1422	157.5	169.8	182	403108.2	4.09	8.19	
57-2606	OZ	105.5	102.59	0.875	36	47.6	50.7	53.8	1898.6	10.81	21.63	B3
		5670.7	2605.8	22.225	914	232.6	247.6	262.6	259265.6	3.3	6.59	
57-3257	OZ	105.7	128.21	1	38	47	50.3	53.6	2007.9	13.8	27.8	B2
		5681.6	3256.6	25.4	965	229.3	245.5	261.7	274193.9	4.21	8.47	
57-3165	OZ	105.9	124.61	1	38	47.6	50.7	53.9	2013	13.77	27.73	A1
		5696.2	3165.2	25.4	965	232.2	247.6	263	274898.6	4.2	8.45	
57-2679	OZ	106.1	105.48	0.5	48	37	39.7	42.4	2545.7	12.39	24.77	A3
		5702.7	2679.2	12.7	1219	180.5	193.7	206.8	347636.7	3.78	7.55	
57-3561	OZ	106.5	140.21	0.625	50	37.3	40.4	43.4	2661.3	15.37	30.94	B2
		5723.1	3561.4	15.875	1270	182.3	197.1	211.9	363419.6	4.68	9.43	
57-2730	OZ	106.6	107.48	0.472	50	35.9	38.5	41.2	2665.4	12.65	25.29	A3
		5732	2730	12	1270	175.1	188	200.9	363981	3.85	7.71	
57-2324	OZ	106.7	91.48	0.875	34	50	53.1	56.2	1814.1	10.55	21.11	A3
		5737	2323.6	22.225	863	244	259.1	274.3	247724.7	3.22	6.43	
58-3279	OZ	107.1	129.1	0.625	48	38.6	41.6	44.7	2569.9	15.11	30.41	A2
		5756.9	3279.2	15.875	1219	188.4	203.3	218.3	350943.1	4.61	9.27	
58-3752	OZ	107.1	147.72	0.625	52	36.5	39.4	42.2	2785	15.6	31.4	B1
		5758.9	3752.2	15.875	1320	178.2	192.2	206.2	380316.1	4.75	9.57	
58-2657	OZ	107.2	104.59	0.812	38	46.1	49.1	52.1	2036.3	11.08	22.15	B3
		5761.9	2656.6	20.638	965	225.1	239.8	254.5	278068.7	3.38	6.75	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
58-2758	OZ	107.2	108.59	0.688	42	42.3	45.2	48.1	2251.3	11.6	23.2	B3
		5763.7	2758.2	17.462	1066	206.3	220.5	234.6	307435.7	3.54	7.07	
58-3470	OZ	107.3	136.61	0.625	50	37.6	40.5	43.4	2683.2	15.34	30.87	A1
		5770.3	3470	15.875	1270	183.7	197.7	211.8	366412.7	4.67	9.41	
58-3447	OZ	107.5	135.72	1	40	46.2	49.4	52.5	2149.2	14.03	28.25	B1
		5777.4	3447.4	25.4	1016	225.8	241	256.3	293493.6	4.28	8.61	
58-3447	OZ	107.5	135.72	1	40	46.2	49.4	52.5	2149.2	14.03	28.25	B1
		5777.4	3447.4	25.4	1016	225.8	241	256.3	293493.8	4.28	8.61	
58-2527	OZ	107.5	99.48	0.625	42	41.9	44.8	47.6	2258.1	11.6	23.2	A3
		5781	2526.8	15.875	1066	204.7	218.6	232.6	308357.7	3.54	7.07	
58-3025	OZ	107.7	119.1	0.938	38	47.4	50.7	54	2045.5	13.8	27.8	A2
		5788	3025.2	23.812	965	231.3	247.4	263.6	279329.5	4.21	8.47	
58-3114	OZ	107.7	122.59	0.438	56	33.1	35.7	38.3	3015.2	13.43	26.87	B3
		5789.6	3113.8	11.112	1422	161.8	174.4	186.9	411757.1	4.09	8.19	
58-2707	OZ	107.8	106.59	0.75	40	44.3	47.3	50.2	2155.5	11.34	22.68	B3
		5794.5	2707.4	19.05	1016	216.3	230.7	245.1	294358.9	3.46	6.91	
58-3307	OZ	108.3	130.21	0.938	40	45.9	49.1	52.4	2166	14.06	28.32	B2
		5822.6	3307.4	23.812	1016	224	239.9	255.9	295787.5	4.29	8.63	
58-2555	OZ	108.5	100.59	1	34	51.5	54.6	57.7	1843.9	10.55	21.11	B3
		5831.4	2555	25.4	863	251.4	266.6	281.9	251801.3	3.22	6.43	
58-3663	OZ	108.7	144.21	0.562	53	35.6	38.5	41.5	2933.8	15.89	31.98	B2
		5841.9	3663	14.288	1371	173.8	188.1	202.5	400639.6	4.84	9.75	
58-2374	OZ	108.7	93.48	0.812	36	48.4	51.4	54.4	1956.3	10.81	21.63	A3
		5843.2	2374.4	20.638	914	236.1	251	265.8	267151.4	3.3	6.59	
58-2911	OZ	108.7	114.59	0.562	48	38.1	40.9	43.6	2609.1	12.39	24.77	B3
		5844.7	2910.6	14.288	1219	186.1	199.5	213	356294.3	3.78	7.55	
58-3216	OZ	108.8	126.61	0.938	40	46.4	49.5	52.6	2175.6	14.03	28.25	A1
		5848.3	3216	23.812	1016	226.7	241.9	257	297094.8	4.28	8.61	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
59-3955	OZ	108.8	155.72	0.5	60	32.7	35.4	38.1	3264.3	16.65	33.49	B1
		5850.1	3955.4	12.7	1524	159.6	172.9	186.2	445775.9	5.07	10.21	
59-3511	OZ	109.1	138.21	0.688	48	39.4	42.5	45.6	2617.4	15.11	30.41	B2
		5863.3	3510.6	17.462	1219	192.5	207.5	222.5	357424	4.61	9.27	
59-3854	OZ	109.1	151.72	0.562	56	34.8	37.5	40.3	3055.9	16.12	32.44	B1
		5867.6	3853.8	14.288	1422	169.7	183.3	197	417305.5	4.91	9.89	
59-2476	OZ	109.2	97.48	0.688	40	44.3	47.2	50.1	2183.7	11.34	22.68	A3
		5870.2	2476	17.462	1016	216.4	230.6	244.8	298208.5	3.46	6.91	
59-2273	OZ	109.3	89.48	1	31	54	57.2	60.3	1749.1	10.29	20.58	A3
		5877.2	2272.8	25.4	812	263.5	279	294.6	238851.3	3.14	6.27	
59-2425	OZ	109.5	95.48	0.75	38	46.5	49.4	52.4	2081.3	11.08	22.15	A3
		5889.4	2425.2	19.05	965	226.9	241.4	255.9	284222	3.38	6.75	
59-3012	OZ	109.6	118.59	0.5	52	35.8	38.5	41.1	2848.8	12.91	25.82	B3
		5890.8	3012.2	12.7	1320	174.9	187.9	200.8	389027.7	3.93	7.87	
59-3381	OZ	109.6	133.1	0.562	52	36.8	39.7	42.7	2850.1	15.63	31.46	A2
		5893.5	3380.8	14.288	1320	179.6	194	208.5	389207.5	4.76	9.59	
59-3076	OZ	109.7	121.1	0.875	40	46	49.3	52.6	2193.5	14.06	28.32	A2
		5896.5	3076	22.225	1016	224.8	240.7	256.6	299543.8	4.29	8.63	
59-3572	OZ	109.7	140.61	0.562	53	35.8	38.6	41.4	2962.1	15.86	31.92	A1
		5898.2	3571.6	14.288	1371	174.9	188.5	202.2	404499.9	4.83	9.73	
59-3482	OZ	109.8	137.1	0.5	56	34.6	37.5	40.4	3073.6	16.16	32.51	A2
		5901.7	3482.4	12.7	1422	168.9	183	197	419728.6	4.92	9.91	
59-3063	OZ	109.8	120.59	0.472	53	34.7	37.4	40	2964.1	13.17	26.34	B3
		5902.3	3063	12	1371	169.6	182.4	195.1	404779.4	4.01	8.03	
59-3419	OZ	109.9	134.61	0.688	48	39.8	42.7	45.6	2638.4	15.08	30.35	A1
		5910.5	3419.2	17.462	1219	194.2	208.4	222.7	360301.2	4.6	9.25	
59-3701	OZ	109.9	145.72	0.688	50	38.6	41.5	44.4	2748.7	15.34	30.87	B1
		5911.2	3701.4	17.462	1270	188.4	202.6	216.8	375358.5	4.67	9.41	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
59-3498	OZ	110	137.72	0.938	42	45.1	48.2	51.3	2309.1	14.29	28.78	B1
		5911.7	3498.2	23.812	1066	220.2	235.2	250.3	315328.4	4.36	8.77	
59-3358	OZ	110	132.21	0.875	42	44.6	47.8	51	2310.6	14.32	28.84	B2
		5915.4	3358.2	22.225	1066	217.6	233.3	249	315528.5	4.37	8.79	
59-2832	OZ	110.6	111.48	0.438	53	34.6	37.2	39.7	2985.4	13.17	26.34	A3
		5944.6	2831.6	11.112	1371	169	181.5	193.9	407677.4	4.01	8.03	
59-3178	OZ	110.7	125.1	0.75	43	42.7	45.9	49	2434.7	14.59	29.37	A2
		5949.8	3177.6	19.05	1117	208.6	224	239.4	332473.8	4.45	8.95	
59-3267	OZ	110.7	128.61	0.875	42	45.1	48.1	51.2	2324	14.29	28.78	A1
		5949.9	3266.8	22.225	1066	220.1	235	249.9	317367.7	4.36	8.77	
60-3127	OZ	110.7	123.1	0.812	42	44.5	47.7	50.9	2324.8	14.32	28.84	A2
		5951.9	3126.8	20.638	1066	217.2	232.9	248.5	317475.3	4.37	8.79	
60-3409	OZ	110.8	134.21	0.812	43	43	46.2	49.4	2437.1	14.59	29.37	B2
		5955.8	3409	20.638	1117	210.2	225.6	241.1	332808.1	4.45	8.95	
60-3549	OZ	111.5	139.72	0.875	43	43.8	46.8	49.8	2453.5	14.55	29.3	B1
		5995.9	3549	22.225	1117	213.6	228.4	243.3	335052.7	4.44	8.93	
60-3318	OZ	111.5	130.61	0.812	43	43.5	46.5	49.5	2453.9	14.55	29.3	A1
		5996.7	3317.6	20.638	1117	212.4	227.1	241.8	335095.2	4.44	8.93	
60-3651	OZ	111.6	143.72	0.75	48	40.5	43.4	46.4	2678.1	15.08	30.35	B1
		5999.2	3650.6	19.05	1219	197.7	212.1	226.5	365713	4.6	9.25	
60-2606	OZ	111.8	102.59	0.938	36	50.3	53.4	56.5	2013.3	10.81	21.63	B3
		6013.4	2605.8	23.812	914	245.7	260.7	275.6	274930.6	3.3	6.59	
60-2730	OZ	112.3	107.48	0.5	50	37.5	40.1	42.8	2807.8	12.65	25.29	A3
		6038.2	2730	12.7	1270	183	195.9	208.8	383426.4	3.85	7.71	
61-2781	OZ	112.6	109.48	0.472	52	36.3	38.9	41.5	2928.2	12.91	25.82	A3
		6055.1	2780.8	12	1320	177.3	190	202.7	399877.4	3.93	7.87	
61-2324	OZ	113	91.48	0.938	34	52.8	55.9	59	1921.4	10.55	21.11	A3
		6076.6	2323.6	23.812	863	257.7	272.9	288.1	262386	3.22	6.43	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
61-3612	OZ	113	142.21	0.625	52	37.9	40.9	43.9	2939.2	15.63	31.46	B2
		6077.8	3612.2	15.875	1320	185.2	199.8	214.4	401376.6	4.76	9.59	
61-3025	OZ	113.8	119.1	1	38	49.8	53.1	56.4	2161.5	13.8	27.8	A2
		6116.2	3025.2	25.4	965	243.1	259.3	275.5	295167.2	4.21	8.47	
61-3803	OZ	113.8	149.72	0.625	53	37.1	39.9	42.7	3071.6	15.86	31.92	B1
		6116.3	3803	15.875	1371	181.1	194.9	208.7	419456.2	4.83	9.73	
61-3330	OZ	113.8	131.1	0.625	50	39.2	42.2	45.2	2846.2	15.37	30.94	A2
		6120.8	3330	15.875	1270	191.5	206.2	220.9	388673.5	4.68	9.43	
61-3521	OZ	114.2	138.61	0.625	52	38.2	41.1	43.9	2968	15.6	31.4	A1
		6137.4	3520.8	15.875	1320	186.7	200.5	214.4	405311.8	4.75	9.57	
61-3815	OZ	114.3	150.21	0.5	60	33.9	36.7	39.6	3427.9	16.68	33.56	B2
		6143.3	3815.4	12.7	1524	165.5	179.3	193.2	468116.8	5.08	10.23	
61-2657	OZ	114.3	104.59	0.875	38	48.9	51.9	54.9	2171.1	11.08	22.15	B3
		6143.4	2656.6	22.225	965	238.7	253.4	268.1	296481.3	3.38	6.75	
62-3307	OZ	114.5	130.21	1	40	48.2	51.5	54.8	2290.7	14.06	28.32	B2
		6157.9	3307.4	25.4	1016	235.4	251.4	267.3	312820	4.29	8.63	
62-3307	OZ	114.5	130.21	1	40	48.2	51.5	54.8	2290.7	14.06	28.32	B2
		6157.9	3307.4	25.4	1016	235.4	251.4	267.3	312820.1	4.29	8.63	
62-2809	OZ	114.8	110.59	0.688	43	43.1	45.9	48.8	2525.4	11.86	23.72	B3
		6171.5	2809	17.462	1117	210.4	224.3	238.2	344861.6	3.62	7.23	
62-2578	OZ	114.8	101.48	0.625	43	42.7	45.5	48.3	2526.3	11.86	23.72	A3
		6173.8	2577.6	15.875	1117	208.4	222	235.7	344991.5	3.62	7.23	
62-3714	OZ	114.9	146.21	0.562	56	36.1	39	41.9	3216.1	16.16	32.51	B2
		6175.3	3713.8	14.288	1422	176.2	190.4	204.6	439184.3	4.92	9.91	
62-3216	OZ	115.2	126.61	1	40	48.8	51.9	55.1	2303.9	14.03	28.25	A1
		6193.1	3216	25.4	1016	238.5	253.6	268.8	314611.3	4.28	8.61	
62-3216	OZ	115.2	126.61	1	40	48.8	51.9	55.1	2303.9	14.03	28.25	A1
		6193.1	3216	25.4	1016	238.5	253.6	268.8	314611.4	4.28	8.61	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
62-2961	OZ	115.4	116.59	0.562	50	38.7	41.4	44.1	2884.4	12.65	25.29	B3
		6203.1	2961.4	14.288	1270	189	202.2	215.3	393894.5	3.85	7.71	
62-3724	OZ	115.6	146.61	0.5	60	34.1	36.8	39.4	3467.2	16.65	33.49	A1
		6213.6	3724	12.7	1524	166.4	179.5	192.6	473475.3	5.07	10.21	
62-2707	OZ	115.6	106.59	0.812	40	47.2	50.1	53.1	2312.5	11.34	22.68	B3
		6216.3	2707.4	20.638	1016	230.4	244.8	259.2	315787.2	3.46	6.91	
62-3114	OZ	115.7	122.59	0.472	56	35.2	37.7	40.3	3239.8	13.43	26.87	B3
		6220.8	3113.8	12	1422	171.7	184.2	196.8	442423.8	4.09	8.19	
62-3063	OZ	115.7	120.59	0.5	53	36.3	38.9	41.5	3124.7	13.17	26.34	B3
		6222.1	3063	12.7	1371	177.2	190	202.7	426708.8	4.01	8.03	
62-2374	OZ	115.8	93.48	0.875	36	51.3	54.3	57.4	2083.6	10.81	21.63	A3
		6223.4	2374.4	22.225	914	250.5	265.3	280.2	284532.6	3.3	6.59	
62-2758	OZ	115.8	108.59	0.75	42	45.3	48.2	51.1	2432.3	11.6	23.2	B3
		6227.1	2758.2	19.05	1066	220.9	235.1	249.3	332154.4	3.54	7.07	
62-3432	OZ	116	135.1	0.562	53	37.3	40.2	43.1	3131.7	15.89	31.98	A2
		6235.9	3431.6	14.288	1371	182.1	196.4	210.6	427655.5	4.84	9.75	
62-3622	OZ	116.1	142.61	0.562	56	36.3	39.1	41.8	3251.1	16.12	32.44	A1
		6242.5	3622.4	14.288	1422	177.4	190.8	204.3	443963.1	4.91	9.89	
62-3561	OZ	116.1	140.21	0.688	50	40.1	43.2	46.2	2903.7	15.37	30.94	B2
		6244.5	3561.4	17.462	1270	195.9	210.7	225.5	396524.6	4.68	9.43	
63-2882	OZ	116.3	113.48	0.438	56	35	37.5	40	3257.3	13.43	26.87	A3
		6254.4	2882.4	11.112	1422	170.9	183.1	195.3	444813.1	4.09	8.19	
63-3076	OZ	116.4	121.1	0.938	40	48.6	51.8	55.1	2329	14.06	28.32	A2
		6260.6	3076	23.812	1016	237.1	253	268.9	318038.9	4.29	8.63	
63-3498	OZ	116.5	137.72	1	42	47.4	50.5	53.6	2446.6	14.29	28.78	B1
		6263.7	3498.2	25.4	1066	231.6	246.6	261.6	334106.5	4.36	8.77	
63-3498	OZ	116.5	137.72	1	42	47.4	50.5	53.6	2446.6	14.29	28.78	B1
		6263.7	3498.2	25.4	1066	231.6	246.6	261.6	334106.7	4.36	8.77	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
63-3279	OZ	116.8	129.1	0.688	48	41.5	44.5	47.6	2802.1	15.11	30.41	A2
		6277	3279.2	17.462	1219	202.6	217.5	232.4	382646	4.61	9.27	
63-3358	OZ	116.9	132.21	0.938	42	47	50.2	53.4	2455.2	14.32	28.84	B2
		6285.6	3358.2	23.812	1066	229.5	245.2	260.9	335272.7	4.37	8.79	
63-2527	OZ	117	99.48	0.688	42	45.2	48.1	50.9	2457.5	11.6	23.2	A3
		6291.5	2526.8	17.462	1066	220.7	234.6	248.6	335590.2	3.54	7.07	
63-3752	OZ	117.1	147.72	0.688	52	39.3	42.1	45	3044.6	15.6	31.4	B1
		6295.8	3752.2	17.462	1320	191.6	205.7	219.7	415772.6	4.75	9.57	
63-3470	OZ	117.3	136.61	0.688	50	40.5	43.4	46.2	2932	15.34	30.87	A1
		6305.3	3470	17.462	1270	197.6	211.7	225.7	400389.6	4.67	9.41	
63-2425	OZ	117.4	95.48	0.812	38	49.5	52.5	55.5	2230.5	11.08	22.15	A3
		6311.7	2425.2	20.638	965	241.8	256.4	270.9	304600.5	3.38	6.75	
63-3267	OZ	117.7	128.61	0.938	42	47.6	50.6	53.7	2472.7	14.29	28.78	A1
		6330.4	3266.8	23.812	1066	232.3	247.2	262.2	337664.4	4.36	8.77	
63-2476	OZ	117.8	97.48	0.75	40	47.5	50.4	53.3	2357	11.34	22.68	A3
		6336	2476	19.05	1016	231.9	246.1	260.3	321868.8	3.46	6.91	
63-3511	OZ	118	138.21	0.75	48	42.1	45.2	48.3	2832.5	15.11	30.41	B2
		6345.2	3510.6	19.05	1219	205.7	220.7	235.7	386800.7	4.61	9.27	
63-2679	OZ	118.1	105.48	0.562	48	40.5	43.2	45.9	2834.4	12.39	24.77	A3
		6349.5	2679.2	14.288	1219	197.9	211.1	224.2	387067.1	3.78	7.55	
64-2606	OZ	118.2	102.59	1	36	53	56	59.1	2126.7	10.81	21.63	B3
		6352.2	2605.8	25.4	914	258.7	273.7	288.6	290424.8	3.3	6.59	
64-2606	OZ	118.2	102.59	1	36	53	56	59.1	2126.7	10.81	21.63	B3
		6352.3	2605.8	25.4	914	258.7	273.7	288.6	290424.9	3.3	6.59	
64-3127	OZ	118.2	123.1	0.875	42	47.1	50.3	53.5	2481.6	14.32	28.84	A2
		6353.2	3126.8	22.225	1066	230	245.7	261.3	338879.3	4.37	8.79	
64-3409	OZ	118.3	134.21	0.875	43	45.6	48.7	51.9	2603.3	14.59	29.37	B2
		6362	3409	22.225	1117	222.5	238	253.5	355509.7	4.45	8.95	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
64-2781	OZ	118.7	109.48	0.5	52	38	40.6	43.2	3085.8	12.91	25.82	A3
		6381	2780.8	12.7	1320	185.4	198	210.7	421400	3.93	7.87	
64-3549	OZ	118.7	139.72	0.938	43	46.2	49.2	52.2	2611.8	14.55	29.3	B1
		6382.7	3549	23.812	1117	225.4	240.3	255.1	356667.2	4.44	8.93	
64-2832	OZ	118.8	111.48	0.472	53	36.8	39.3	41.9	3206.4	13.17	26.34	A3
		6384.6	2831.6	12	1371	179.4	191.9	204.3	437858.2	4.01	8.03	
64-3178	OZ	118.8	125.1	0.812	43	45.4	48.6	51.8	2614.6	14.59	29.37	A2
		6389.5	3177.6	20.638	1117	221.9	237.3	252.7	357043.9	4.45	8.95	
64-3419	OZ	119.1	134.61	0.75	48	42.5	45.5	48.4	2859.3	15.08	30.35	A1
		6405.2	3419.2	19.05	1219	207.7	222	236.2	390463.3	4.6	9.25	
64-3701	OZ	119.2	145.72	0.75	50	41.3	44.2	47.1	2980.2	15.34	30.87	B1
		6408.9	3701.4	19.05	1270	201.4	215.6	229.8	406968.2	4.67	9.41	
64-2324	OZ	119.3	91.48	1	34	55.6	58.7	61.8	2027.5	10.55	21.11	A3
		6412.2	2323.6	25.4	863	271.5	286.6	301.8	276877.3	3.22	6.43	
64-3318	OZ	119.3	130.61	0.875	43	46.1	49.1	52.1	2624.7	14.55	29.3	A1
		6414.1	3317.6	22.225	1117	225.1	239.8	254.5	358422.3	4.44	8.93	
64-2911	OZ	119.7	114.59	0.625	48	41.4	44.1	46.9	2872.8	12.39	24.77	B3
		6435.4	2910.6	15.875	1219	202.1	215.5	228.9	392300.3	3.78	7.55	
64-3663	OZ	119.8	144.21	0.625	53	38.5	41.5	44.4	3234.7	15.89	31.98	B2
		6441	3663	15.875	1371	188.1	202.5	216.9	441720.6	4.84	9.75	
65-3651	OZ	120.1	143.72	0.812	48	43.1	46	49	2883.3	15.08	30.35	B1
		6458.9	3650.6	20.638	1219	210.3	224.7	239.1	393735.8	4.6	9.25	
65-3854	OZ	120.6	151.72	0.625	56	37.7	40.4	43.2	3375.5	16.12	32.44	B1
		6481.5	3853.8	15.875	1422	183.8	197.5	211.1	460961.1	4.91	9.89	
65-3381	OZ	120.8	133.1	0.625	52	39.8	42.8	45.8	3140.4	15.63	31.46	A2
		6493.8	3380.8	15.875	1320	194.5	209	223.5	428849	4.76	9.59	
65-3572	OZ	121.1	140.61	0.625	53	38.8	41.6	44.4	3270.6	15.86	31.92	A1
		6512.6	3571.6	15.875	1371	189.6	203.2	216.9	446632.3	4.83	9.73	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
65-2657	OZ	121.3	104.59	0.938	38	51.7	54.7	57.7	2304.5	11.08	22.15	B3
		6521	2656.6	23.812	965	252.2	266.9	281.6	314704.6	3.38	6.75	
65-3584	OZ	121.6	141.1	0.5	60	35.4	38.2	41	3649.3	16.68	33.56	A2
		6539.9	3584	12.7	1524	173	186.7	200.3	498340.6	5.08	10.23	
65-3955	OZ	121.7	155.72	0.562	60	35.7	38.4	41.2	3651.5	16.65	33.49	B1
		6544	3955.4	14.288	1524	174.4	187.7	201	498650.4	5.07	10.21	
66-3114	OZ	122	122.59	0.5	56	36.7	39.3	41.9	3416.3	13.43	26.87	B3
		6559.7	3113.8	12.7	1422	179.4	192	204.5	466529.4	4.09	8.19	
66-3012	OZ	122.2	118.59	0.562	52	39.3	41.9	44.6	3177	12.91	25.82	B3
		6569.5	3012.2	14.288	1320	191.7	204.7	217.7	433852.1	3.93	7.87	
66-3482	OZ	122.5	137.1	0.562	56	37.8	40.7	43.6	3429.8	16.16	32.51	A2
		6585.6	3482.4	14.288	1422	184.6	198.7	212.7	468367.4	4.92	9.91	
66-2374	OZ	122.7	93.48	0.938	36	54.2	57.3	60.3	2209.5	10.81	21.63	A3
		6599.4	2374.4	23.812	914	264.8	279.6	294.5	301724.3	3.3	6.59	
66-3076	OZ	123.2	121.1	1	40	51.1	54.3	57.6	2463.1	14.06	28.32	A2
		6621.1	3076	25.4	1016	249.4	265.3	281.3	336352.6	4.29	8.63	
66-3076	OZ	123.2	121.1	1	40	51.1	54.3	57.6	2463.1	14.06	28.32	A2
		6621.1	3076	25.4	1016	249.4	265.3	281.3	336352.8	4.29	8.63	
66-2707	OZ	123.4	106.59	0.875	40	50.1	53	56	2467.9	11.34	22.68	B3
		6634	2707.4	22.225	1016	244.5	258.9	273.3	337007.2	3.46	6.91	
66-3612	OZ	123.4	142.21	0.688	52	40.8	43.8	46.8	3208.9	15.63	31.46	B2
		6635.5	3612.2	17.462	1320	199.2	213.8	228.4	438207.4	4.76	9.59	
67-3358	OZ	123.7	132.21	1	42	49.4	52.7	55.9	2598.4	14.32	28.84	B2
		6652.3	3358.2	25.4	1066	241.4	257.1	272.8	354833.6	4.37	8.79	
67-3358	OZ	123.7	132.21	1	42	49.4	52.7	55.9	2598.4	14.32	28.84	B2
		6652.3	3358.2	25.4	1066	241.4	257.1	272.8	354833.8	4.37	8.79	
67-2809	OZ	124.1	110.59	0.75	43	46.2	49	51.9	2730.7	11.86	23.72	B3
		6673.3	2809	19.05	1117	225.4	239.3	253.2	372903.2	3.62	7.23	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
67-3330	OZ	124.2	131.1	0.688	50	42.2	45.2	48.2	3105.5	15.37	30.94	A2
		6678.4	3330	17.462	1270	206.1	220.8	235.4	424078.9	4.68	9.43	
67-2758	OZ	124.4	108.59	0.812	42	48.2	51.1	54	2611.7	11.6	23.2	B3
		6686.3	2758.2	20.638	1066	235.5	249.7	263.8	356645	3.54	7.07	
67-3803	OZ	124.4	149.72	0.688	53	39.9	42.7	45.6	3359.3	15.86	31.92	B1
		6689.2	3803	17.462	1371	194.8	208.7	222.5	458746.2	4.83	9.73	
67-3267	OZ	124.8	128.61	1	42	50.1	53.1	56.2	2619.9	14.29	28.78	A1
		6707.4	3266.8	25.4	1066	244.5	259.4	274.3	357772.5	4.36	8.77	
67-3267	OZ	124.8	128.61	1	42	50.1	53.1	56.2	2619.9	14.29	28.78	A1
		6707.4	3266.8	25.4	1066	244.5	259.4	274.3	357772.7	4.36	8.77	
67-3521	OZ	124.8	138.61	0.688	52	41.2	44	46.8	3244.7	15.6	31.4	A1
		6709.6	3520.8	17.462	1320	201	214.8	228.7	443098.7	4.75	9.57	
67-2882	OZ	125	113.48	0.472	56	37.2	39.7	42.2	3499.9	13.43	26.87	A3
		6720.2	2882.4	12	1422	181.5	193.7	205.9	477941.7	4.09	8.19	
67-2578	OZ	125.1	101.48	0.688	43	46	48.8	51.6	2752.1	11.86	23.72	A3
		6725.5	2577.6	17.462	1117	224.8	238.5	252.2	375821	3.62	7.23	
67-2730	OZ	125.2	107.48	0.562	50	41.1	43.8	46.4	3128.9	12.65	25.29	A3
		6728.8	2730	14.288	1270	200.8	213.7	226.6	427281.8	3.85	7.71	
67-2425	OZ	125.2	95.48	0.875	38	52.6	55.6	58.5	2378.2	11.08	22.15	A3
		6729.6	2425.2	22.225	965	256.7	271.2	285.8	324770	3.38	6.75	
67-2832	OZ	125.2	111.48	0.5	53	38.4	41	43.5	3380.1	13.17	26.34	A3
		6730.5	2831.6	12.7	1371	187.6	200.1	212.5	461579.7	4.01	8.03	
68-3127	OZ	125.6	123.1	0.938	42	49.7	52.9	56.1	2636.8	14.32	28.84	A2
		6750.7	3126.8	23.812	1066	242.8	258.5	274.1	360084.7	4.37	8.79	
68-3561	OZ	125.8	140.21	0.75	50	42.9	45.9	49	3144.3	15.37	30.94	B2
		6761.8	3561.4	19.05	1270	209.4	224.2	239.1	429376.8	4.68	9.43	
68-3409	OZ	125.8	134.21	0.938	43	48.1	51.3	54.4	2768.1	14.59	29.37	B2
		6764.7	3409	23.812	1117	234.8	250.3	265.8	378011.9	4.45	8.95	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
68-3549	OZ	125.8	139.72	1	43	48.6	51.6	54.7	2768.7	14.55	29.3	B1
		6766.1	3549	25.4	1117	237.2	252	266.9	378087.3	4.44	8.93	
68-3279	OZ	126.3	129.1	0.75	48	44.4	47.4	50.5	3032.4	15.11	30.41	A2
		6792.9	3279.2	19.05	1219	216.7	231.6	246.5	414095.7	4.61	9.27	
68-2476	OZ	126.4	97.48	0.812	40	50.7	53.6	56.5	2528.6	11.34	22.68	A3
		6797.2	2476	20.638	1016	247.3	261.5	275.8	345299.8	3.46	6.91	
68-2527	OZ	126.4	99.48	0.75	42	48.5	51.3	54.2	2655.1	11.6	23.2	A3
		6797.4	2526.8	19.05	1066	236.7	250.6	264.5	362572.5	3.54	7.07	
68-3714	OZ	126.7	146.21	0.625	56	39.1	42	44.9	3547.8	16.16	32.51	B2
		6812.2	3713.8	15.875	1422	190.9	205.1	219.3	484485.6	4.92	9.91	
68-3511	OZ	126.9	138.21	0.812	48	44.8	47.9	51	3045.9	15.11	30.41	B2
		6823.2	3510.6	20.638	1219	218.8	233.8	248.9	415941.1	4.61	9.27	
68-3178	OZ	127	125.1	0.875	43	48.2	51.3	54.5	2792.9	14.59	29.37	A2
		6825.3	3177.6	22.225	1117	235.1	250.5	265.9	381398.8	4.45	8.95	
68-3318	OZ	127	130.61	0.938	43	48.7	51.7	54.7	2794	14.55	29.3	A1
		6827.9	3317.6	23.812	1117	237.7	252.4	267.1	381544.5	4.44	8.93	
68-3752	OZ	127	147.72	0.75	52	42	44.9	47.7	3302.4	15.6	31.4	B1
		6828.7	3752.2	19.05	1320	205	219.1	233.1	450968	4.75	9.57	
68-2961	OZ	127.1	116.59	0.625	50	42.1	44.8	47.5	3178.2	12.65	25.29	B3
		6834.9	2961.4	15.875	1270	205.4	218.5	231.7	434017.4	3.85	7.71	
68-3470	OZ	127.2	136.61	0.75	50	43.3	46.2	49.1	3178.9	15.34	30.87	A1
		6836.3	3470	19.05	1270	211.5	225.6	239.7	434107.2	4.67	9.41	
69-3815	OZ	127.6	150.21	0.562	60	37	39.9	42.7	3829.3	16.68	33.56	B2
		6862.6	3815.4	14.288	1524	180.9	194.7	208.5	522931.5	5.08	10.23	
69-3432	OZ	127.9	135.1	0.625	53	40.4	43.4	46.3	3452.8	15.89	31.98	A2
		6875.3	3431.6	15.875	1371	197.4	211.7	226	471506.8	4.84	9.75	
69-2657	OZ	128.2	104.59	1	38	54.4	57.4	60.4	2436.6	11.08	22.15	B3
		6894.7	2656.6	25.4	965	265.7	280.4	295.1	332739.7	3.38	6.75	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
69-3622	OZ	128.3	142.61	0.625	56	39.4	42.2	44.9	3591.2	16.12	32.44	A1
		6895.5	3622.4	15.875	1422	192.4	205.9	219.3	490407.5	4.91	9.89	
69-3419	OZ	128.3	134.61	0.812	48	45.3	48.2	51.2	3078.4	15.08	30.35	A1
		6896	3419.2	20.638	1219	221.2	235.5	249.7	420382.5	4.6	9.25	
69-3701	OZ	128.4	145.72	0.812	50	43.9	46.8	49.7	3209.9	15.34	30.87	B1
		6902.9	3701.4	20.638	1270	214.4	228.6	242.8	438334.7	4.67	9.41	
69-3651	OZ	128.6	143.72	0.875	48	45.7	48.6	51.6	3086.8	15.08	30.35	B1
		6914.9	3650.6	22.225	1219	222.9	237.3	251.7	421534	4.6	9.25	
69-3063	OZ	129.1	120.59	0.562	53	39.8	42.4	45	3487	13.17	26.34	B3
		6943.5	3063	14.288	1371	194.4	207.1	219.9	476186.5	4.01	8.03	
70-3724	OZ	129.3	146.61	0.562	60	37.3	40	42.7	3878.4	16.65	33.49	A1
		6950.6	3724	14.288	1524	182.1	195.2	208.3	529635.3	5.07	10.21	
70-2374	OZ	129.7	93.48	1	36	57.2	60.2	63.2	2334	10.81	21.63	A3
		6971.3	2374.4	25.4	914	279.1	293.9	308.8	318728.5	3.3	6.59	
70-2374	OZ	129.7	93.48	1	36	57.2	60.2	63.2	2334	10.81	21.63	A3
		6971.3	2374.4	25.4	914	279.1	293.9	308.8	318728.6	3.3	6.59	
70-2679	OZ	130	105.48	0.625	48	44.1	46.8	49.5	3120.9	12.39	24.77	A3
		6991.2	2679.2	15.875	1219	215.3	228.5	241.6	426182.9	3.78	7.55	
70-2911	OZ	130.6	114.59	0.688	48	44.7	47.4	50.2	3134.3	12.39	24.77	B3
		7021.3	2910.6	17.462	1219	218.1	231.5	244.9	428018	3.78	7.55	
70-3663	OZ	130.9	144.21	0.688	53	41.5	44.4	47.4	3533.4	15.89	31.98	B2
		7035.8	3663	17.462	1371	202.4	216.8	231.2	482512.3	4.84	9.75	
70-2707	OZ	131.1	106.59	0.938	40	52.9	55.9	58.9	2621.7	11.34	22.68	B3
		7047.6	2707.4	23.812	1016	258.5	272.9	287.3	358020.3	3.46	6.91	
71-2882	OZ	131.8	113.48	0.5	56	38.9	41.4	43.9	3690.6	13.43	26.87	A3
		7086.4	2882.4	12.7	1422	189.9	202.1	214.3	503982.5	4.09	8.19	
71-3381	OZ	131.9	133.1	0.688	52	42.9	45.9	48.8	3428.6	15.63	31.46	A2
		7089.7	3380.8	17.462	1320	209.4	223.9	238.4	468200.6	4.76	9.59	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
71-3854	OZ	131.9	151.72	0.688	56	40.5	43.3	46.1	3693	16.12	32.44	B1
		7091.1	3853.8	17.462	1422	197.9	211.6	225.2	504315.7	4.91	9.89	
71-2781	OZ	132.4	109.48	0.562	52	41.7	44.3	46.9	3441.4	12.91	25.82	A3
		7116.2	2780.8	14.288	1320	203.6	216.2	228.9	469954.4	3.93	7.87	
71-3572	OZ	132.5	140.61	0.688	53	41.8	44.6	47.4	3577	15.86	31.92	A1
		7122.6	3571.6	17.462	1371	204.3	217.9	231.6	488467.9	4.83	9.73	
71-2758	OZ	132.8	108.59	0.875	42	51.2	54.1	57	2789.3	11.6	23.2	B3
		7141.2	2758.2	22.225	1066	250.1	264.2	278.4	380909.4	3.54	7.07	
71-2425	OZ	132.9	95.48	0.938	38	55.6	58.6	61.6	2524.4	11.08	22.15	A3
		7143.2	2425.2	23.812	965	271.6	286.1	300.6	344732.1	3.38	6.75	
71-3127	OZ	132.9	123.1	1	42	52.3	55.5	58.8	2790.7	14.32	28.84	A2
		7144.6	3126.8	25.4	1066	255.6	271.2	286.9	381093.2	4.37	8.79	
71-3127	OZ	132.9	123.1	1	42	52.3	55.5	58.8	2790.7	14.32	28.84	A2
		7144.6	3126.8	25.4	1066	255.6	271.2	286.9	381093.4	4.37	8.79	
72-3409	OZ	133.2	134.21	1	43	50.6	53.8	56.9	2931.4	14.59	29.37	B2
		7163.8	3409	25.4	1117	247.1	262.6	278	400311.7	4.45	8.95	
72-2809	OZ	133.4	110.59	0.812	43	49.3	52.1	54.9	2934.2	11.86	23.72	B3
		7170.7	2809	20.638	1117	240.5	254.4	268.3	400697.5	3.62	7.23	
72-3612	OZ	133.7	142.21	0.75	52	43.6	46.6	49.6	3476.6	15.63	31.46	B2
		7189.1	3612.2	19.05	1320	213.1	227.7	242.3	474766.8	4.76	9.59	
72-3330	OZ	134.5	131.1	0.75	50	45.2	48.2	51.2	3362.8	15.37	30.94	A2
		7231.7	3330	19.05	1270	220.6	235.3	249.9	459214	4.68	9.43	
72-3955	OZ	134.5	155.72	0.625	60	38.7	41.5	44.2	4036.3	16.65	33.49	B1
		7233.5	3955.4	15.875	1524	189.2	202.5	215.8	551191.3	5.07	10.21	
72-3318	OZ	134.6	130.61	1	43	51.3	54.3	57.3	2961.8	14.55	29.3	A1
		7238	3317.6	25.4	1117	250.3	265	279.7	404458.6	4.44	8.93	
72-3012	OZ	134.7	118.59	0.625	52	42.7	45.4	48	3502.8	12.91	25.82	B3
		7243.3	3012.2	15.875	1320	208.5	221.5	234.4	478344.5	3.93	7.87	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
73-3215	OZ	134.9	126.59	0.5	60	37.6	40.1	42.6	4047.2	13.96	27.91	B3
		7252.9	3215.4	12.7	1524	183.6	195.8	207.9	552674.4	4.25	8.51	
73-2476	OZ	134.9	97.48	0.875	40	53.8	56.7	59.6	2698.5	11.34	22.68	A3
		7254	2476	22.225	1016	262.7	276.9	291.2	368502.9	3.46	6.91	
73-3178	OZ	135	125.1	0.938	43	50.9	54	57.2	2969.7	14.59	29.37	A2
		7257.3	3177.6	23.812	1117	248.3	263.7	279.1	405539.6	4.45	8.95	
73-3803	OZ	135	149.72	0.75	53	42.7	45.6	48.4	3645	15.86	31.92	B1
		7258	3803	19.05	1371	208.6	222.4	236.2	497754.9	4.83	9.73	
73-3482	OZ	135.1	137.1	0.625	56	41	43.9	46.8	3783.6	16.16	32.51	A2
		7264.9	3482.4	15.875	1422	200.3	214.3	228.4	516678.9	4.92	9.91	
73-2578	OZ	135.3	101.48	0.75	43	49.4	52.2	55	2975.9	11.86	23.72	A3
		7272.4	2577.6	19.05	1117	241.2	254.9	268.6	406380	3.62	7.23	
73-3561	OZ	135.3	140.21	0.812	50	45.7	48.7	51.7	3383	15.37	30.94	B2
		7275.2	3561.4	20.638	1270	223	237.8	252.6	461976.4	4.68	9.43	
73-3521	OZ	135.4	138.61	0.75	52	44.1	46.9	49.8	3519.4	15.6	31.4	A1
		7277.5	3520.8	19.05	1320	215.3	229.1	243	480607.2	4.75	9.57	
73-3511	OZ	135.7	138.21	0.875	48	47.5	50.6	53.7	3257.6	15.11	30.41	B2
		7297.4	3510.6	22.225	1219	231.9	247	262	444847.8	4.61	9.27	
73-2527	OZ	135.8	99.48	0.812	42	51.7	54.6	57.4	2850.8	11.6	23.2	A3
		7298.6	2526.8	20.638	1066	252.6	266.5	280.5	389305.9	3.54	7.07	
73-3279	OZ	135.9	129.1	0.812	48	47.3	50.3	53.4	3260.8	15.11	30.41	A2
		7304.7	3279.2	20.638	1219	230.8	245.7	260.6	445292.4	4.61	9.27	
73-3584	OZ	135.9	141.1	0.562	60	38.8	41.6	44.4	4076.6	16.68	33.56	A2
		7305.7	3584	14.288	1524	189.4	203	216.7	556694.4	5.08	10.23	
73-3114	OZ	136.2	122.59	0.562	56	40.3	42.9	45.5	3814.7	13.43	26.87	B3
		7324.6	3113.8	14.288	1422	197	209.5	222.1	520925.9	4.09	8.19	
74-3752	OZ	136.9	147.72	0.812	52	44.7	47.6	50.5	3558.2	15.6	31.4	B1
		7357.7	3752.2	20.638	1320	218.4	232.4	246.4	485902.1	4.75	9.57	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
74-3470	OZ	137	136.61	0.812	50	46.2	49	51.9	3423.9	15.34	30.87	A1
		7363.2	3470	20.638	1270	225.4	239.5	253.5	467565.4	4.67	9.41	
74-3651	OZ	137	143.72	0.938	48	48.2	51.2	54.1	3288.7	15.08	30.35	B1
		7367.2	3650.6	23.812	1219	235.5	249.9	264.3	449107.5	4.6	9.25	
74-3419	OZ	137.3	134.61	0.875	48	48.1	51	53.9	3295.7	15.08	30.35	A1
		7382.9	3419.2	22.225	1219	234.7	248.9	263.2	450062	4.6	9.25	
74-3701	OZ	137.5	145.72	0.875	50	46.6	49.5	52.4	3437.8	15.34	30.87	B1
		7393	3701.4	22.225	1270	227.4	241.6	255.8	469458	4.67	9.41	
74-2730	OZ	137.9	107.48	0.625	50	44.8	47.4	50.1	3447.6	12.65	25.29	A3
		7414.3	2730	15.875	1270	218.6	231.5	244.4	470805.6	3.85	7.71	
74-3714	OZ	138.5	146.21	0.688	56	42.1	45	47.9	3877.3	16.16	32.51	B2
		7444.8	3713.8	17.462	1422	205.5	219.7	233.9	529474.6	4.92	9.91	
75-2707	OZ	138.7	106.59	1	40	55.8	58.8	61.7	2774.1	11.34	22.68	B3
		7457.2	2707.4	25.4	1016	272.5	286.9	301.3	378827.4	3.46	6.91	
75-2707	OZ	138.7	106.59	1	40	55.8	58.8	61.7	2774.1	11.34	22.68	B3
		7457.2	2707.4	25.4	1016	272.5	286.9	301.3	378827.5	3.46	6.91	
75-2961	OZ	138.8	116.59	0.688	50	45.4	48.1	50.8	3469.8	12.65	25.29	B3
		7461.9	2961.4	17.462	1270	221.7	234.9	248.1	473829.7	3.85	7.71	
75-3432	OZ	139.7	135.1	0.688	53	43.6	46.5	49.4	3771.6	15.89	31.98	A2
		7510.2	3431.6	17.462	1371	212.7	227	241.2	515049.2	4.84	9.75	
75-2832	OZ	139.7	111.48	0.562	53	42.2	44.8	47.3	3772	13.17	26.34	A3
		7510.9	2831.6	14.288	1371	206.2	218.7	231.1	515100.7	4.01	8.03	
75-3622	OZ	140.3	142.61	0.688	56	42.5	45.2	48	3928.9	16.12	32.44	A1
		7544	3622.4	17.462	1422	207.4	220.9	234.4	536531.6	4.91	9.89	
76-2425	OZ	140.5	95.48	1	38	58.6	61.6	64.6	2669.1	11.08	22.15	A3
		7552.6	2425.2	25.4	965	286.3	300.9	315.4	364488	3.38	6.75	
76-3815	OZ	140.9	150.21	0.625	60	40.2	43	45.8	4228.2	16.68	33.56	B2
		7577.4	3815.4	15.875	1524	196.2	210	223.9	577400.2	5.08	10.23	

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		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
76-2758	OZ	141.2	108.59	0.938	42	54.2	57.1	60	2965.4	11.6	23.2	B3
		7591.8	2758.2	23.812	1066	264.5	278.7	292.9	404948.6	3.54	7.07	
76-2911	OZ	141.4	114.59	0.75	48	47.9	50.7	53.4	3393.8	12.39	24.77	B3
		7602.5	2910.6	19.05	1219	234	247.4	260.8	463450.6	3.78	7.55	
76-3663	OZ	141.8	144.21	0.75	53	44.4	47.3	50.3	3829.9	15.89	31.98	B2
		7626.3	3663	19.05	1371	216.7	231.1	245.5	523011.9	4.84	9.75	
76-2679	OZ	141.9	105.48	0.688	48	47.6	50.3	53	3405	12.39	24.77	A3
		7627.7	2679.2	17.462	1219	232.6	245.8	258.9	464985.5	3.78	7.55	
77-3063	OZ	142.5	120.59	0.625	53	43.3	45.9	48.5	3846.8	13.17	26.34	B3
		7659.9	3063	15.875	1371	211.5	224.3	237	525314.8	4.01	8.03	
77-2809	OZ	142.5	110.59	0.875	43	52.3	55.2	58	3136	11.86	23.72	B3
		7663.7	2809	22.225	1117	255.4	269.3	283.3	428248.2	3.62	7.23	
77-3381	OZ	142.9	133.1	0.75	52	45.9	48.9	51.9	3714.6	15.63	31.46	A2
		7681.1	3380.8	19.05	1320	224.3	238.8	253.2	507262.4	4.76	9.59	
77-3724	OZ	142.9	146.61	0.625	60	40.5	43.2	45.9	4287.1	16.65	33.49	A1
		7683	3724	15.875	1524	197.8	210.9	224	585440.9	5.07	10.21	
77-3178	OZ	142.9	125.1	1	43	53.6	56.7	59.9	3144.9	14.59	29.37	A2
		7685.5	3177.6	25.4	1117	261.5	276.9	292.3	429463.3	4.45	8.95	
77-3854	OZ	143.2	151.72	0.75	56	43.4	46.2	49	4008.4	16.12	32.44	B1
		7696.5	3853.8	19.05	1422	212	225.7	239.3	547377.1	4.91	9.89	
77-2476	OZ	143.3	97.48	0.938	40	56.9	59.9	62.8	2866.7	11.34	22.68	A3
		7706.3	2476	23.812	1016	278	292.3	306.5	391479.9	3.46	6.91	
77-3572	OZ	143.7	140.61	0.75	53	44.8	47.6	50.4	3881.1	15.86	31.92	A1
		7728.3	3571.6	19.05	1371	218.9	232.5	246.2	530003.9	4.83	9.73	
77-3612	OZ	143.9	142.21	0.812	52	46.5	49.5	52.5	3742.4	15.63	31.46	B2
		7738.6	3612.2	20.638	1320	227	241.6	256.2	511055	4.76	9.59	
78-3511	OZ	144.5	138.21	0.938	48	50.2	53.3	56.3	3467.5	15.11	30.41	B2
		7767.7	3510.6	23.812	1219	245	260	275.1	473521	4.61	9.27	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
78-3330	OZ	144.7	131.1	0.812	50	48.1	51.1	54.2	3618.1	15.37	30.94	A2
		7780.8	3330	20.638	1270	235	249.7	264.4	494078.9	4.68	9.43	
78-3561	OZ	144.8	140.21	0.875	50	48.4	51.5	54.5	3619.9	15.37	30.94	B2
		7784.6	3561.4	22.225	1270	236.5	251.3	266.1	494323.2	4.68	9.43	
78-2527	OZ	145	99.48	0.875	42	55	57.8	60.7	3044.8	11.6	23.2	A3
		7795.1	2526.8	22.225	1066	268.4	282.4	296.3	415792.4	3.54	7.07	
78-3279	OZ	145.3	129.1	0.875	48	50.1	53.2	56.3	3487.4	15.11	30.41	A2
		7812.3	3279.2	22.225	1219	244.8	259.7	274.7	476238.9	4.61	9.27	
78-2578	OZ	145.3	101.48	0.812	43	52.8	55.6	58.4	3197.7	11.86	23.72	A3
		7814.4	2577.6	20.638	1117	257.6	271.3	285	436669.5	3.62	7.23	
78-2984	OZ	145.4	117.48	0.5	60	39.7	42.2	44.6	4361	13.96	27.91	A3
		7815.4	2984	12.7	1524	194.1	205.9	217.7	595532.6	4.25	8.51	
78-3651	OZ	145.4	143.72	1	48	50.8	53.8	56.7	3489	15.08	30.35	B1
		7815.9	3650.6	25.4	1219	248.1	262.5	276.9	476456.5	4.6	9.25	
78-3651	OZ	145.4	143.72	1	48	50.8	53.8	56.7	3489	15.08	30.35	B1
		7815.9	3650.6	25.4	1219	248.1	262.5	276.9	476457.4	4.6	9.25	
78-3803	OZ	145.5	149.72	0.812	53	45.5	48.4	51.2	3928.6	15.86	31.92	B1
		7822.8	3803	20.638	1371	222.3	236.1	249.9	536487.5	4.83	9.73	
78-3521	OZ	145.8	138.61	0.812	52	47	49.8	52.7	3792	15.6	31.4	A1
		7841.3	3520.8	20.638	1320	229.5	243.4	257.2	517837.4	4.75	9.57	
78-2781	OZ	145.9	109.48	0.625	52	45.4	48	50.6	3794.3	12.91	25.82	A3
		7846	2780.8	15.875	1320	221.7	234.4	247.1	518149.2	3.93	7.87	
79-3419	OZ	146.3	134.61	0.938	48	50.8	53.7	56.7	3511.3	15.08	30.35	A1
		7865.8	3419.2	23.812	1219	248.1	262.4	276.6	479501.6	4.6	9.25	
79-3701	OZ	146.6	145.72	0.938	50	49.2	52.1	55	3663.9	15.34	30.87	B1
		7879.4	3701.4	23.812	1270	240.3	254.6	268.8	500340.9	4.67	9.41	
79-3752	OZ	146.6	147.72	0.875	52	47.5	50.3	53.2	3812.1	15.6	31.4	B1
		7882.7	3752.2	22.225	1320	231.7	245.8	259.8	520575.1	4.75	9.57	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
79-3470	OZ	146.7	136.61	0.875	50	49	51.9	54.8	3667	15.34	30.87	A1
		7886.1	3470	22.225	1270	239.3	253.3	267.4	500764.3	4.67	9.41	
79-3012	OZ	147.2	118.59	0.688	52	46.1	48.8	51.4	3826.3	12.91	25.82	B3
		7912	3012.2	17.462	1320	225.2	238.2	251.2	522511.5	3.93	7.87	
79-2882	OZ	147.2	113.48	0.562	56	42.8	45.3	47.8	4120.9	13.43	26.87	A3
		7912.6	2882.4	14.288	1422	208.8	221	233.3	562746	4.09	8.19	
79-3955	OZ	147.3	155.72	0.688	60	41.8	44.5	47.2	4418.6	16.65	33.49	B1
		7918.6	3955.4	17.462	1524	203.9	217.2	230.5	603398.4	5.07	10.21	
79-3482	OZ	147.7	137.1	0.688	56	44.2	47.1	50	4134.9	16.16	32.51	A2
		7939.5	3482.4	17.462	1422	215.9	229.9	244	564657.3	4.92	9.91	
80-2758	OZ	149.5	108.59	1	42	57.1	60	62.9	3139.8	11.6	23.2	B3
		8038.3	2758.2	25.4	1066	279	293.1	307.3	428764.6	3.54	7.07	
80-2758	OZ	149.5	108.59	1	42	57.1	60	62.9	3139.8	11.6	23.2	B3
		8038.3	2758.2	25.4	1066	279	293.1	307.3	428764.8	3.54	7.07	
81-3584	OZ	150	141.1	0.625	60	42.1	44.9	47.7	4501.2	16.68	33.56	A2
		8066.7	3584	15.875	1524	205.7	219.3	233	614679.9	5.08	10.23	
81-3714	OZ	150.2	146.21	0.75	56	45.1	48	50.9	4204.5	16.16	32.51	B2
		8073.1	3713.8	19.05	1422	220.1	234.3	248.5	574159.3	4.92	9.91	
81-2961	OZ	150.4	116.59	0.75	50	48.7	51.5	54.2	3759.1	12.65	25.29	B3
		8084.1	2961.4	19.05	1270	238	251.2	264.4	513338	3.85	7.71	
81-3114	OZ	150.4	122.59	0.625	56	43.9	46.5	49.1	4210.3	13.43	26.87	B3
		8084.3	3113.8	15.875	1422	214.5	227	239.6	574956.4	4.09	8.19	
81-2730	OZ	150.6	107.48	0.688	50	48.4	51	53.7	3763.9	12.65	25.29	A3
		8094.4	2730	17.462	1270	236.3	249.2	262.1	513992.4	3.85	7.71	
81-3215	OZ	150.8	126.59	0.562	60	41.3	43.8	46.3	4523.5	13.96	27.91	B3
		8106.5	3215.4	14.288	1524	201.9	214	226.2	617717.6	4.25	8.51	
81-3432	OZ	151.4	135.1	0.75	53	46.7	49.6	52.5	4088.2	15.89	31.98	A2
		8140.6	3431.6	19.05	1371	227.9	242.2	256.5	558279.7	4.84	9.75	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
82-2809	OZ	151.6	110.59	0.938	43	55.4	58.2	61.1	3336	11.86	23.72	B3
		8152.4	2809	23.812	1117	270.4	284.3	298.2	455556.9	3.62	7.23	
82-2476	OZ	151.7	97.48	1	40	60.1	63	65.9	3033.4	11.34	22.68	A3
		8154.2	2476	25.4	1016	293.3	307.6	321.8	414231.5	3.46	6.91	
82-2476	OZ	151.7	97.48	1	40	60.1	63	65.9	3033.4	11.34	22.68	A3
		8154.2	2476	25.4	1016	293.3	307.6	321.8	414231.7	3.46	6.91	
82-2911	OZ	152.1	114.59	0.812	48	51.2	53.9	56.7	3651.2	12.39	24.77	B3
		8179.1	2910.6	20.638	1219	249.8	263.3	276.7	498598	3.78	7.55	
82-3622	OZ	152.3	142.61	0.75	56	45.6	48.3	51.1	4264.4	16.12	32.44	A1
		8188.2	3622.4	19.05	1422	222.4	235.9	249.3	582343.7	4.91	9.89	
82-3663	OZ	152.8	144.21	0.812	53	47.3	50.2	53.2	4124.4	15.89	31.98	B2
		8212.7	3663	20.638	1371	230.9	245.3	259.7	563224.9	4.84	9.75	
82-3511	OZ	153.2	138.21	1	48	52.9	55.9	59	3675.8	15.11	30.41	B2
		8234.3	3510.6	25.4	1219	258.1	273.1	288.1	501960.6	4.61	9.27	
82-3511	OZ	153.2	138.21	1	48	52.9	55.9	59	3675.8	15.11	30.41	B2
		8234.3	3510.6	25.4	1219	258.1	273.1	288.1	501961.6	4.61	9.27	
83-2679	OZ	153.6	105.48	0.75	48	51.2	53.9	56.6	3686.9	12.39	24.77	A3
		8259.2	2679.2	19.05	1219	249.9	263.1	276.2	503478.4	3.78	7.55	
83-3381	OZ	153.8	133.1	0.812	52	49	51.9	54.9	3998.5	15.63	31.46	A2
		8268.2	3380.8	20.638	1320	239.1	253.6	268.1	546034.3	4.76	9.59	
83-3612	OZ	154.1	142.21	0.875	52	49.3	52.3	55.3	4006.1	15.63	31.46	B2
		8283.9	3612.2	22.225	1320	240.8	255.4	270	547071.8	4.76	9.59	
83-2832	OZ	154.1	111.48	0.625	53	46	48.6	51.1	4161.2	13.17	26.34	A3
		8285.9	2831.6	15.875	1371	224.8	237.2	249.7	568243.8	4.01	8.03	
83-2527	OZ	154.1	99.48	0.938	42	58.2	61.1	63.9	3236.9	11.6	23.2	A3
		8287.1	2526.8	23.812	1066	284.2	298.2	312.1	442033.1	3.54	7.07	
83-3815	OZ	154.2	150.21	0.688	60	43.3	46.2	49	4624.5	16.68	33.56	B2
		8287.7	3815.4	17.462	1524	211.5	225.3	239.2	631523	5.08	10.23	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
83-3561	OZ	154.2	140.21	0.938	50	51.2	54.2	57.3	3854.9	15.37	30.94	B2
		8290.1	3561.4	23.812	1270	249.9	264.7	279.5	526420.1	4.68	9.43	
83-3854	OZ	154.3	151.72	0.812	56	46.3	49.1	51.9	4321.5	16.12	32.44	B1
		8297.8	3853.8	20.638	1422	226.1	239.7	253.4	590140.1	4.91	9.89	
83-3279	OZ	154.7	129.1	0.938	48	53	56.1	59.1	3712.2	15.11	30.41	A2
		8315.9	3279.2	23.812	1219	258.8	273.8	288.7	506935.4	4.61	9.27	
83-3330	OZ	154.9	131.1	0.875	50	51.1	54.1	57.1	3871.4	15.37	30.94	A2
		8325.6	3330	22.225	1270	249.5	264.1	278.8	528673.5	4.68	9.43	
83-3572	OZ	154.9	140.61	0.812	53	47.8	50.6	53.4	4183.1	15.86	31.92	A1
		8329.6	3571.6	20.638	1371	233.5	247.1	260.8	571245.9	4.83	9.73	
83-3419	OZ	155.2	134.61	1	48	53.6	56.5	59.4	3725.1	15.08	30.35	A1
		8344.8	3419.2	25.4	1219	261.5	275.8	290	508701.4	4.6	9.25	
83-3419	OZ	155.2	134.61	1	48	53.6	56.5	59.4	3725.2	15.08	30.35	A1
		8344.9	3419.2	25.4	1219	261.5	275.8	290	508702.5	4.6	9.25	
84-2578	OZ	155.3	101.48	0.875	43	56.1	58.9	61.7	3417.5	11.86	23.72	A3
		8351.7	2577.6	22.225	1117	273.9	287.6	301.3	466693.5	3.62	7.23	
84-3701	OZ	155.5	145.72	1	50	51.9	54.8	57.7	3888.3	15.34	30.87	B1
		8361.9	3701.4	25.4	1270	253.3	267.5	281.7	530982.7	4.67	9.41	
84-3701	OZ	155.5	145.72	1	50	51.9	54.8	57.7	3888.3	15.34	30.87	B1
		8361.9	3701.4	25.4	1270	253.3	267.5	281.7	530983.4	4.67	9.41	
84-3063	OZ	155.7	120.59	0.688	53	46.8	49.4	52.1	4204	13.17	26.34	B3
		8371.2	3063	17.462	1371	228.6	241.4	254.1	574097	4.01	8.03	
84-3803	OZ	155.9	149.72	0.875	53	48.3	51.2	54	4210.2	15.86	31.92	B1
		8383.6	3803	22.225	1371	236	249.8	263.6	574944	4.83	9.73	
84-3521	OZ	156.3	138.61	0.875	52	49.9	52.8	55.6	4062.6	15.6	31.4	A1
		8400.8	3520.8	22.225	1320	243.7	257.6	271.4	554789.2	4.75	9.57	
84-3752	OZ	156.3	147.72	0.938	52	50.2	53.1	55.9	4064.1	15.6	31.4	B1
		8403.9	3752.2	23.812	1320	245	259.1	273.1	554994.9	4.75	9.57	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
84-3470	OZ	156.3	136.61	0.938	50	51.8	54.7	57.6	3908.3	15.34	30.87	A1
		8404.8	3470	23.812	1270	253.1	267.1	281.2	533706.6	4.67	9.41	
84-3724	OZ	156.4	146.61	0.688	60	43.7	46.4	49.1	4693.2	16.65	33.49	A1
		8410.7	3724	17.462	1524	213.5	226.6	239.7	640892	5.07	10.21	
86-2781	OZ	159.4	109.48	0.688	52	49.1	51.7	54.3	4144.7	12.91	25.82	A3
		8570.4	2780.8	17.462	1320	239.9	252.5	265.2	565991.5	3.93	7.87	
86-3012	OZ	159.5	118.59	0.75	52	49.6	52.2	54.9	4147.3	12.91	25.82	B3
		8575.9	3012.2	19.05	1320	241.9	254.9	267.9	566353.2	3.93	7.87	
86-3955	OZ	159.9	155.72	0.75	60	44.8	47.5	50.2	4798.5	16.65	33.49	B1
		8599.4	3955.4	19.05	1524	218.6	231.9	245.2	655271.8	5.07	10.21	
86-3482	OZ	160.1	137.1	0.75	56	47.4	50.3	53.2	4483.9	16.16	32.51	A2
		8609.6	3482.4	19.05	1422	231.5	245.5	259.6	612311.3	4.92	9.91	
86-2809	OZ	160.6	110.59	1	43	58.4	61.3	64.1	3534.2	11.86	23.72	B3
		8636.7	2809	25.4	1117	285.3	299.2	313.1	482619.9	3.62	7.23	
87-3714	OZ	161.8	146.21	0.812	56	48.1	51	53.9	4529.4	16.16	32.51	B2
		8697.1	3713.8	20.638	1422	234.7	248.9	263.1	618534.3	4.92	9.91	
87-2961	OZ	161.8	116.59	0.812	50	52.1	54.8	57.5	4046.2	12.65	25.29	B3
		8701.5	2961.4	20.638	1270	254.3	267.5	280.7	552542.4	3.85	7.71	
87-2882	OZ	162.4	113.48	0.625	56	46.6	49.1	51.7	4548.3	13.43	26.87	A3
		8733.3	2882.4	15.875	1422	227.7	240	252.2	621114.1	4.09	8.19	
87-2984	OZ	162.5	117.48	0.562	60	43.8	46.2	48.6	4874.2	13.96	27.91	A3
		8735.2	2984	14.288	1524	213.7	225.5	237.3	665619.7	4.25	8.51	
88-2911	OZ	162.8	114.59	0.875	48	54.4	57.2	59.9	3906.5	12.39	24.77	B3
		8751	2910.6	22.225	1219	265.7	279.1	292.5	533463.6	3.78	7.55	
88-3432	OZ	163.1	135.1	0.812	53	49.8	52.7	55.6	4402.5	15.89	31.98	A2
		8766.5	3431.6	20.638	1371	243.1	257.4	271.6	601204.3	4.84	9.75	
88-2730	OZ	163.1	107.48	0.75	50	52	54.7	57.3	4077.7	12.65	25.29	A3
		8769.3	2730	19.05	1270	254	266.9	279.8	556849.5	3.85	7.71	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
88-2527	OZ	163.2	99.48	1	42	61.4	64.3	67.2	3427.3	11.6	23.2	A3
		8774.5	2526.8	25.4	1066	300	314	327.9	468030.2	3.54	7.07	
88-2527	OZ	163.2	99.48	1	42	61.4	64.3	67.2	3427.3	11.6	23.2	A3
		8774.5	2526.8	25.4	1066	300	314	327.9	468030.4	3.54	7.07	
88-3561	OZ	163.5	140.21	1	50	53.9	57	60	4088.1	15.37	30.94	B2
		8791.6	3561.4	25.4	1270	263.3	278.1	292.9	558266.4	4.68	9.43	
88-3561	OZ	163.5	140.21	1	50	53.9	57	60	4088.1	15.37	30.94	B2
		8791.6	3561.4	25.4	1270	263.3	278.1	292.9	558267.2	4.68	9.43	
88-3663	OZ	163.6	144.21	0.875	53	50.2	53.1	56.1	4416.8	15.89	31.98	B2
		8794.9	3663	22.225	1371	245.1	259.5	273.9	603151.2	4.84	9.75	
88-3279	OZ	164	129.1	1	48	55.9	58.9	62	3935.2	15.11	30.41	A2
		8815.3	3279.2	25.4	1219	272.8	287.7	302.6	537381.9	4.61	9.27	
88-3279	OZ	164	129.1	1	48	55.9	58.9	62	3935.2	15.11	30.41	A2
		8815.3	3279.2	25.4	1219	272.8	287.7	302.6	537383	4.61	9.27	
88-3584	OZ	164.1	141.1	0.688	60	45.5	48.3	51.1	4923.1	16.68	33.56	A2
		8822.8	3584	17.462	1524	222	235.6	249.3	672297.1	5.08	10.23	
88-3612	OZ	164.2	142.21	0.938	52	52.2	55.1	58.1	4267.9	15.63	31.46	B2
		8825.3	3612.2	23.812	1320	254.7	269.3	283.9	582825.6	4.76	9.59	
88-3622	OZ	164.2	142.61	0.812	56	48.6	51.4	54.1	4597.6	16.12	32.44	A1
		8827.9	3622.4	20.638	1422	237.3	250.8	264.3	627838.4	4.91	9.89	
88-3114	OZ	164.4	122.59	0.688	56	47.5	50.1	52.6	4603.2	13.43	26.87	B3
		8838.8	3113.8	17.462	1422	231.9	244.5	257	628614.3	4.09	8.19	
89-3381	OZ	164.6	133.1	0.875	52	52	55	57.9	4280.3	15.63	31.46	A2
		8850.9	3380.8	22.225	1320	253.9	268.4	282.9	584516.3	4.76	9.59	
89-3330	OZ	164.9	131.1	0.938	50	54	57	60.1	4122.8	15.37	30.94	A2
		8866.2	3330	23.812	1270	263.8	278.5	293.2	563000.8	4.68	9.43	
89-2578	OZ	165.2	101.48	0.938	43	59.4	62.2	65	3635.5	11.86	23.72	A3
		8884.3	2577.6	23.812	1117	290.2	303.9	317.6	496453.8	3.62	7.23	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
89-2679	OZ	165.3	105.48	0.812	48	54.7	57.4	60.1	3966.5	12.39	24.77	A3
		8885.5	2679.2	20.638	1219	267.1	280.3	293.5	541661.4	3.78	7.55	
89-3854	OZ	165.4	151.72	0.875	56	49.2	52	54.8	4632.5	16.12	32.44	B1
		8895	3853.8	22.225	1422	240.1	253.7	267.4	632609.9	4.91	9.89	
89-3470	OZ	165.9	136.61	1	50	54.7	57.5	60.4	4147.6	15.34	30.87	A1
		8919.6	3470	25.4	1270	266.8	280.9	295	566391.7	4.67	9.41	
89-3470	OZ	165.9	136.61	1	50	54.7	57.5	60.4	4147.6	15.34	30.87	A1
		8919.6	3470	25.4	1270	266.8	280.9	295	566392.5	4.67	9.41	
89-3752	OZ	165.9	147.72	1	52	52.9	55.8	58.6	4314.3	15.6	31.4	B1
		8921.2	3752.2	25.4	1320	258.3	272.3	286.3	589153.6	4.75	9.57	
89-3752	OZ	165.9	147.72	1	52	52.9	55.8	58.6	4314.3	15.6	31.4	B1
		8921.2	3752.2	25.4	1320	258.3	272.3	286.3	589154.4	4.75	9.57	
89-3572	OZ	166	140.61	0.875	53	50.8	53.6	56.4	4483	15.86	31.92	A1
		8926.7	3571.6	22.225	1371	248.1	261.7	275.4	612194	4.83	9.73	
89-3803	OZ	166.3	149.72	0.938	53	51.1	54	56.8	4489.8	15.86	31.92	B1
		8940.3	3803	23.812	1371	249.6	263.4	277.3	613124.4	4.83	9.73	
90-3215	OZ	166.6	126.59	0.625	60	45.1	47.6	50	4996.7	13.96	27.91	B3
		8954.7	3215.4	15.875	1524	220.1	232.2	244.4	682350.3	4.25	8.51	
90-3521	OZ	166.6	138.61	0.938	52	52.8	55.7	58.5	4331.3	15.6	31.4	A1
		8956.3	3520.8	23.812	1320	257.9	271.8	285.6	591471.2	4.75	9.57	
90-3815	OZ	167.3	150.21	0.75	60	46.4	49.3	52.1	5018.3	16.68	33.56	B2
		8993.4	3815.4	19.05	1524	226.8	240.6	254.4	685299.8	5.08	10.23	
91-2832	OZ	168.4	111.48	0.688	53	49.8	52.4	54.9	4547.6	13.17	26.34	A3
		9055.3	2831.6	17.462	1371	243.3	255.7	268.2	621012.6	4.01	8.03	
91-3063	OZ	168.8	120.59	0.75	53	50.3	52.9	55.5	4558.7	13.17	26.34	B3
		9077.4	3063	19.05	1371	245.7	258.5	271.2	622529.9	4.01	8.03	
91-3724	OZ	169.9	146.61	0.75	60	46.9	49.6	52.3	5096.6	16.65	33.49	A1
		9133.7	3724	19.05	1524	229.2	242.3	255.4	695988.7	5.07	10.21	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
92-3012	OZ	171.8	118.59	0.812	52	53	55.6	58.3	4466	12.91	25.82	B3
		9234.9	3012.2	20.638	1320	258.6	271.5	284.5	609869.6	3.93	7.87	
93-3482	OZ	172.5	137.1	0.812	56	50.6	53.5	56.3	4830.4	16.16	32.51	A2
		9275	3482.4	20.638	1422	247	261.1	275.1	659634.9	4.92	9.91	
93-3955	OZ	172.5	155.72	0.812	60	47.8	50.5	53.2	5175.9	16.65	33.49	B1
		9275.7	3955.4	20.638	1524	233.3	246.6	259.9	706811.4	5.07	10.21	
93-2781	OZ	172.8	109.48	0.75	52	52.8	55.4	58	4492.4	12.91	25.82	A3
		9289.5	2780.8	19.05	1320	257.9	270.6	283.3	613481.4	3.93	7.87	
93-2961	OZ	173.2	116.59	0.875	50	55.4	58.1	60.8	4331	12.65	25.29	B3
		9314.1	2961.4	22.225	1270	270.5	283.7	296.9	591443	3.85	7.71	
93-3714	OZ	173.3	146.21	0.875	56	51	54	56.9	4852.2	16.16	32.51	B2
		9316.7	3713.8	22.225	1422	249.2	263.4	277.6	662605.1	4.92	9.91	
93-2911	OZ	173.3	114.59	0.938	48	57.6	60.4	63.1	4159.7	12.39	24.77	B3
		9318.4	2910.6	23.812	1219	281.4	294.9	308.3	568047.6	3.78	7.55	
94-3612	OZ	174.1	142.21	1	52	55	58	61	4527.8	15.63	31.46	B2
		9362.6	3612.2	25.4	1320	268.4	283	297.6	618308.2	4.76	9.59	
94-3612	OZ	174.1	142.21	1	52	55	58	61	4527.8	15.63	31.46	B2
		9362.6	3612.2	25.4	1320	268.4	283	297.6	618309.1	4.76	9.59	
94-3663	OZ	174.3	144.21	0.938	53	53.1	56.1	59	4707.1	15.89	31.98	B2
		9372.9	3663	23.812	1371	259.3	273.7	288.1	642790.8	4.84	9.75	
94-3432	OZ	174.6	135.1	0.875	53	52.9	55.8	58.7	4714.6	15.89	31.98	A2
		9387.9	3431.6	22.225	1371	258.3	272.6	286.8	643822.9	4.84	9.75	
94-3330	OZ	174.9	131.1	1	50	57	60	63	4372.2	15.37	30.94	A2
		9402.5	3330	25.4	1270	278.2	292.9	307.6	597060.1	4.68	9.43	
94-3330	OZ	174.9	131.1	1	50	57	60	63	4372.2	15.37	30.94	A2
		9402.5	3330	25.4	1270	278.2	292.9	307.6	597060.9	4.68	9.43	
94-2578	OZ	175.1	101.48	1	43	62.8	65.6	68.4	3851.4	11.86	23.72	A3
		9412.1	2577.6	25.4	1117	306.4	320.1	333.8	525946.3	3.62	7.23	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
94-3381	OZ	175.4	133.1	0.938	52	55	58	61	4560.1	15.63	31.46	A2
		9429.4	3380.8	23.812	1320	268.7	283.2	297.6	622717.3	4.76	9.59	
94-2730	OZ	175.6	107.48	0.812	50	55.6	58.3	60.9	4389.1	12.65	25.29	A3
		9439	2730	20.638	1270	271.6	284.6	297.5	599377	3.85	7.71	
95-3622	OZ	176	142.61	0.875	56	51.7	54.4	57.2	4928.4	16.12	32.44	A1
		9463.2	3622.4	22.225	1422	252.3	265.7	279.2	673021.2	4.91	9.89	
95-3854	OZ	176.5	151.72	0.938	56	52	54.8	57.6	4941.4	16.12	32.44	B1
		9488	3853.8	23.812	1422	254.1	267.7	281.4	674789	4.91	9.89	
95-3803	OZ	176.6	149.72	1	53	53.9	56.7	59.6	4767.4	15.86	31.92	B1
		9493	3803	25.4	1371	263.2	277.1	290.9	651032.8	4.83	9.73	
95-3803	OZ	176.6	149.72	1	53	53.9	56.7	59.6	4767.4	15.86	31.92	B1
		9493.1	3803	25.4	1371	263.2	277.1	290.9	651033.9	4.83	9.73	
95-2679	OZ	176.8	105.48	0.875	48	58.2	60.9	63.6	4243.9	12.39	24.77	A3
		9506.9	2679.2	22.225	1219	284.3	297.5	310.6	579538.4	3.78	7.55	
95-3521	OZ	176.8	138.61	1	52	55.7	58.6	61.4	4597.8	15.6	31.4	A1
		9507.5	3520.8	25.4	1320	272	285.9	299.7	627874.9	4.75	9.57	
95-3521	OZ	176.8	138.61	1	52	55.7	58.6	61.4	4597.8	15.6	31.4	A1
		9507.5	3520.8	25.4	1320	272	285.9	299.7	627875.8	4.75	9.57	
95-3572	OZ	177.1	140.61	0.938	53	53.8	56.6	59.4	4780.7	15.86	31.92	A1
		9519.5	3571.6	23.812	1371	262.6	276.2	289.9	652848	4.83	9.73	
95-2882	OZ	177.6	113.48	0.688	56	50.5	53	55.5	4972.8	13.43	26.87	A3
		9548.4	2882.4	17.462	1422	246.6	258.8	271	679079.7	4.09	8.19	
96-3584	OZ	178.1	141.1	0.75	60	48.8	51.6	54.4	5342.4	16.68	33.56	A2
		9574.1	3584	19.05	1524	238.2	251.9	265.5	729546	5.08	10.23	
96-3114	OZ	178.3	122.59	0.75	56	51.1	53.6	56.2	4993.5	13.43	26.87	B3
		9588.2	3113.8	19.05	1422	249.4	261.9	274.4	681909.3	4.09	8.19	
96-2984	OZ	179.5	117.48	0.625	60	47.8	50.2	52.6	5384.2	13.96	27.91	A3
		9649.1	2984	15.875	1524	233.3	245.1	256.9	735264.5	4.25	8.51	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
97-3815	OZ	180.3	150.21	0.812	60	49.6	52.4	55.2	5409.6	16.68	33.56	B2
		9694.6	3815.4	20.638	1524	242	255.8	269.6	738730.6	5.08	10.23	
98-3063	OZ	181.9	120.59	0.812	53	53.8	56.4	59	4910.8	13.17	26.34	B3
		9778.7	3063	20.638	1371	262.7	275.5	288.2	670620	4.01	8.03	
98-3215	OZ	182.2	126.59	0.688	60	48.8	51.3	53.8	5467	13.96	27.91	B3
		9797.5	3215.4	17.462	1524	238.2	250.4	262.5	746572.5	4.25	8.51	
98-2832	OZ	182.6	111.48	0.75	53	53.6	56.2	58.7	4931.2	13.17	26.34	A3
		9819.2	2831.6	19.05	1371	261.7	274.2	286.6	673403.4	4.01	8.03	
99-3724	OZ	183.2	146.61	0.812	60	50.1	52.8	55.5	5497.5	16.65	33.49	A1
		9852.1	3724	20.638	1524	244.8	257.9	271	750730.9	5.07	10.21	
99-2911	OZ	183.8	114.59	1	48	60.9	63.6	66.4	4410.9	12.39	24.77	B3
		9881.1	2910.6	25.4	1219	297.2	310.6	324	602349.8	3.78	7.55	
99-2911	OZ	183.8	114.59	1	48	60.9	63.6	66.4	4410.9	12.39	24.77	B3
		9881.1	2910.6	25.4	1219	297.2	310.6	324	602351	3.78	7.55	
99-3012	OZ	183.9	118.59	0.875	52	56.4	59	61.7	4782.3	12.91	25.82	B3
		9888.9	3012.2	22.225	1320	275.2	288.2	301.1	653060.6	3.93	7.87	
99-2961	OZ	184.5	116.59	0.938	50	58.7	61.4	64.1	4613.7	12.65	25.29	B3
		9921.9	2961.4	23.812	1270	286.7	299.9	313.1	630043	3.85	7.71	
99-3714	OZ	184.7	146.21	0.938	56	54	56.9	59.8	5172.7	16.16	32.51	B2
		9932.1	3713.8	23.812	1422	263.8	278	292.2	706374.3	4.92	9.91	
99-3482	OZ	184.8	137.1	0.875	56	53.8	56.6	59.5	5174.6	16.16	32.51	A2
		9935.8	3482.4	22.225	1422	262.5	276.6	290.6	706634.1	4.92	9.91	
99-3663	OZ	185	144.21	1	53	56	58.9	61.9	4995.3	15.89	31.98	B2
		9946.8	3663	25.4	1371	273.4	287.8	302.2	682148.1	4.84	9.75	
99-3663	OZ	185	144.21	1	53	56	58.9	61.9	4995.3	15.89	31.98	B2
		9946.8	3663	25.4	1371	273.4	287.8	302.2	682149.3	4.84	9.75	
99-3955	OZ	185	155.72	0.875	60	50.8	53.5	56.2	5550.9	16.65	33.49	B1
		9947.8	3955.4	22.225	1524	248	261.3	274.6	758025	5.07	10.21	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
100-2781	OZ	186.1	109.48	0.812	52	56.5	59.1	61.7	4837.6	12.91	25.82	A3
		10003.3	2780.8	20.638	1320	276	288.7	301.3	660619	3.93	7.87	
100-3381	OZ	186.1	133.1	1	52	58.1	61	64	4837.7	15.63	31.46	A2
		10003.5	3380.8	25.4	1320	283.4	297.9	312.4	660628.5	4.76	9.59	
100-3381	OZ	186.1	133.1	1	52	58.1	61	64	4837.7	15.63	31.46	A2
		10003.5	3380.8	25.4	1320	283.4	297.9	312.4	660629.4	4.76	9.59	
100-3432	OZ	186.1	135.1	0.938	53	56	58.9	61.8	5024.5	15.89	31.98	A2
		10004.9	3431.6	23.812	1371	273.4	287.7	301.9	686135.5	4.84	9.75	
101-3854	OZ	187.4	151.72	1	56	54.9	57.7	60.5	5248.1	16.12	32.44	B1
		10077	3853.8	25.4	1422	268	281.7	295.3	716675	4.91	9.89	
101-3622	OZ	187.8	142.61	0.938	56	54.7	57.5	60.2	5257	16.12	32.44	A1
		10094.1	3622.4	23.812	1422	267.1	280.6	294.1	717894.8	4.91	9.89	
101-2730	OZ	187.9	107.48	0.875	50	59.2	61.9	64.5	4698.2	12.65	25.29	A3
		10103.5	2730	22.225	1270	289.2	302.2	315.1	641574.8	3.85	7.71	
101-3572	OZ	188	140.61	1	53	56.7	59.5	62.3	5076.3	15.86	31.92	A1
		10108.1	3571.6	25.4	1371	277.1	290.7	304.4	693212.5	4.83	9.73	
101-3572	OZ	188	140.61	1	53	56.7	59.5	62.3	5076.3	15.86	31.92	A1
		10108.1	3571.6	25.4	1371	277.1	290.7	304.4	693213.7	4.83	9.73	
101-2679	OZ	188.3	105.48	0.938	48	61.7	64.4	67.1	4519	12.39	24.77	A3
		10123.2	2679.2	23.812	1219	301.5	314.6	327.8	617109.3	3.78	7.55	
103-3584	OZ	192	141.1	0.812	60	52.1	54.9	57.7	5758.9	16.68	33.56	A2
		10320.6	3584	20.638	1524	254.4	268.1	281.7	786426.5	5.08	10.23	
103-3114	OZ	192.2	122.59	0.812	56	54.6	57.2	59.8	5381.1	13.43	26.87	B3
		10332.3	3113.8	20.638	1422	266.7	279.3	291.8	734835	4.09	8.19	
104-2882	OZ	192.7	113.48	0.75	56	54.4	56.9	59.4	5394.4	13.43	26.87	A3
		10357.9	2882.4	19.05	1422	265.4	277.6	289.9	736653.2	4.09	8.19	
104-3815	OZ	193.3	150.21	0.875	60	52.7	55.5	58.3	5798.4	16.68	33.56	B2
		10391.4	3815.4	22.225	1524	257.2	271	284.8	791823.3	5.08	10.23	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
105-3063	OZ	194.8	120.59	0.875	53	57.3	59.9	62.5	5260.5	13.17	26.34	B3
		10474.9	3063	22.225	1371	279.7	292.5	305.2	718367.4	4.01	8.03	
105-2961	OZ	195.8	116.59	1	50	62	64.7	67.4	4894.2	12.65	25.29	B3
		10525.1	2961.4	25.4	1270	302.8	316	329.2	668341.5	3.85	7.71	
105-2961	OZ	195.8	116.59	1	50	62	64.7	67.4	4894.2	12.65	25.29	B3
		10525.1	2961.4	25.4	1270	302.8	316	329.2	668342.4	3.85	7.71	
105-3012	OZ	196	118.59	0.938	52	59.8	62.4	65.1	5096.2	12.91	25.82	B3
		10538.1	3012.2	23.812	1320	291.8	304.7	317.7	695936.3	3.93	7.87	
105-3714	OZ	196.1	146.21	1	56	57	59.9	62.8	5491	16.16	32.51	B2
		10543.3	3713.8	25.4	1422	278.2	292.4	306.6	749839.2	4.92	9.91	
106-2984	OZ	196.4	117.48	0.688	60	51.8	54.2	56.6	5891	13.96	27.91	A3
		10557.3	2984	17.462	1524	252.9	264.7	276.5	804466.9	4.25	8.51	
106-3724	OZ	196.5	146.61	0.875	60	53.3	56	58.7	5895.8	16.65	33.49	A1
		10566	3724	22.225	1524	260.3	273.4	286.5	805126.7	5.07	10.21	
106-2832	OZ	196.7	111.48	0.812	53	57.4	59.9	62.5	5312.2	13.17	26.34	A3
		10577.8	2831.6	20.638	1371	280.2	292.6	305.1	725423.5	4.01	8.03	
106-3482	OZ	197	137.1	0.938	56	56.9	59.8	62.7	5516.4	16.16	32.51	A2
		10592.1	3482.4	23.812	1422	278	292	306.1	753311.7	4.92	9.91	
106-3955	OZ	197.5	155.72	0.938	60	53.8	56.5	59.2	5923.5	16.65	33.49	B1
		10615.6	3955.4	23.812	1524	262.6	275.9	289.2	808907.3	5.07	10.21	
106-3432	OZ	197.5	135.1	1	53	59.1	62	64.9	5332.1	15.89	31.98	A2
		10617.5	3431.6	25.4	1371	288.5	302.8	317	728146.8	4.84	9.75	
106-3432	OZ	197.5	135.1	1	53	59.1	62	64.9	5332.1	15.89	31.98	A2
		10617.5	3431.6	25.4	1371	288.5	302.8	317	728148	4.84	9.75	
106-3215	OZ	197.8	126.59	0.75	60	52.5	55	57.5	5934.3	13.96	27.91	B3
		10635	3215.4	19.05	1524	256.3	268.5	280.6	810384.2	4.25	8.51	
107-2781	OZ	199.2	109.48	0.875	52	60.2	62.8	65.4	5180.2	12.91	25.82	A3
		10711.8	2780.8	22.225	1320	294	306.7	319.3	707404.1	3.93	7.87	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
107-3622	OZ	199.4	142.61	1	56	57.8	60.5	63.3	5583.4	16.12	32.44	A1
		10720.7	3622.4	25.4	1422	282	295.4	308.9	762456.4	4.91	9.89	
107-2679	OZ	199.7	105.48	1	48	65.2	67.9	70.6	4791.9	12.39	24.77	A3
		10734.5	2679.2	25.4	1219	318.6	331.7	344.9	654374.1	3.78	7.55	
107-2679	OZ	199.7	105.48	1	48	65.2	67.9	70.6	4791.9	12.39	24.77	A3
		10734.5	2679.2	25.4	1219	318.6	331.7	344.9	654375.5	3.78	7.55	
108-2730	OZ	200.2	107.48	0.938	50	62.8	65.5	68.1	5004.8	12.65	25.29	A3
		10762.9	2730	23.812	1270	306.8	319.7	332.6	683446.6	3.85	7.71	
111-3584	OZ	205.8	141.1	0.875	60	55.4	58.2	61	6172.8	16.68	33.56	A2
		11062.3	3584	22.225	1524	270.6	284.3	297.9	842947.2	5.08	10.23	
111-3114	OZ	205.9	122.59	0.875	56	58.2	60.8	63.3	5766	13.43	26.87	B3
		11071.4	3113.8	22.225	1422	284.1	296.6	309.2	787397.8	4.09	8.19	
111-3815	OZ	206.2	150.21	0.938	60	55.8	58.6	61.4	6184.7	16.68	33.56	B2
		11083.6	3815.4	23.812	1524	272.4	286.2	300	844572.7	5.08	10.23	
112-2882	OZ	207.6	113.48	0.812	56	58.2	60.7	63.2	5813.1	13.43	26.87	A3
		11161.8	2882.4	20.638	1422	284.2	296.4	308.7	793827.8	4.09	8.19	
112-3063	OZ	207.7	120.59	0.938	53	60.8	63.4	66	5607.6	13.17	26.34	B3
		11166.1	3063	23.812	1371	296.7	309.4	322.2	765771.9	4.01	8.03	
112-3012	OZ	208	118.59	1	52	63.1	65.8	68.5	5407.8	12.91	25.82	B3
		11182.4	3012.2	25.4	1320	308.3	321.2	334.2	738486.6	3.93	7.87	
112-3012	OZ	208	118.59	1	52	63.1	65.8	68.5	5407.8	12.91	25.82	B3
		11182.4	3012.2	25.4	1320	308.3	321.2	334.2	738487.6	3.93	7.87	
112-3482	OZ	209.1	137.1	1	56	60.1	63	65.9	5855.8	16.16	32.51	A2
		11243.9	3482.4	25.4	1422	293.4	307.5	321.5	799664.8	4.92	9.91	
113-3724	OZ	209.7	146.61	0.938	60	56.5	59.2	61.9	6291.6	16.65	33.49	A1
		11275.2	3724	23.812	1524	275.9	289	302.1	859170.8	5.07	10.21	
113-3955	OZ	209.8	155.72	1	60	56.8	59.5	62.2	6293.7	16.65	33.49	B1
		11279	3955.4	25.4	1524	277.2	290.5	303.8	859463.5	5.07	10.21	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
113-2832	OZ	210.8	111.48	0.875	53	61.1	63.7	66.2	5690.4	13.17	26.34	A3
		11330.9	2831.6	22.225	1371	298.5	311	323.4	777072.8	4.01	8.03	
114-2781	OZ	212.3	109.48	0.938	52	63.9	66.5	69.1	5520.3	12.91	25.82	A3
		11415	2780.8	23.812	1320	311.9	324.6	337.3	753847.5	3.93	7.87	
114-2730	OZ	212.4	107.48	1	50	66.4	69.1	71.7	5309	12.65	25.29	A3
		11417.2	2730	25.4	1270	324.3	337.2	350.1	724991.4	3.85	7.71	
114-2730	OZ	212.4	107.48	1	50	66.4	69.1	71.7	5309	12.65	25.29	A3
		11417.2	2730	25.4	1270	324.3	337.2	350.1	724992.4	3.85	7.71	
115-2984	OZ	213.2	117.48	0.75	60	55.8	58.2	60.6	6394.5	13.96	27.91	A3
		11459.7	2984	19.05	1524	272.4	284.2	296	873226.9	4.25	8.51	
115-3215	OZ	213.3	126.59	0.812	60	56.2	58.7	61.2	6398.6	13.96	27.91	B3
		11467	3215.4	20.638	1524	274.4	286.5	298.7	873785.3	4.25	8.51	
118-3815	OZ	218.9	150.21	1	60	58.9	61.7	64.5	6568.5	16.68	33.56	B2
		11771.4	3815.4	25.4	1524	287.5	301.3	315.1	896984	5.08	10.23	
118-3584	OZ	219.5	141.1	0.938	60	58.7	61.5	64.3	6584	16.68	33.56	A2
		11799.2	3584	23.812	1524	286.8	300.4	314.1	899102.3	5.08	10.23	
118-3114	OZ	219.6	122.59	0.938	56	61.7	64.3	66.9	6148.3	13.43	26.87	B3
		11805.4	3113.8	23.812	1422	301.4	313.9	326.5	839600.9	4.09	8.19	
119-3063	OZ	220.5	120.59	1	53	64.2	66.8	69.4	5952.3	13.17	26.34	B3
		11852.4	3063	25.4	1371	313.6	326.3	339.1	812838.8	4.01	8.03	
119-3063	OZ	220.5	120.59	1	53	64.2	66.8	69.4	5952.3	13.17	26.34	B3
		11852.4	3063	25.4	1371	313.6	326.3	339.1	812840.1	4.01	8.03	
120-2882	OZ	222.5	113.48	0.875	56	62	64.6	67.1	6228.9	13.43	26.87	A3
		11960.2	2882.4	22.225	1422	302.9	315.2	327.4	850610.3	4.09	8.19	
120-3724	OZ	222.8	146.61	1	60	59.7	62.4	65	6684.8	16.65	33.49	A1
		11979.9	3724	25.4	1524	291.4	304.5	317.6	912868.4	5.07	10.21	
121-2832	OZ	224.7	111.48	0.938	53	64.9	67.4	70	6065.9	13.17	26.34	A3
		12078.6	2831.6	23.812	1371	316.9	329.3	341.8	828351.2	4.01	8.03	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
121-2781	OZ	225.3	109.48	1	52	67.6	70.1	72.7	5857.8	12.91	25.82	A3
		12112.9	2780.8	25.4	1320	329.8	342.5	355.2	799938.6	3.93	7.87	
121-2781	OZ	225.3	109.48	1	52	67.6	70.1	72.7	5857.8	12.91	25.82	A3
		12113	2780.8	25.4	1320	329.8	342.5	355.2	799939.8	3.93	7.87	
123-3215	OZ	228.7	126.59	0.875	60	59.9	62.4	64.9	6859.9	13.96	27.91	B3
		12293.8	3215.4	22.225	1524	292.4	304.6	316.7	936785.2	4.25	8.51	
124-2984	OZ	229.8	117.48	0.812	60	59.8	62.2	64.6	6894.8	13.96	27.91	A3
		12356.2	2984	20.638	1524	291.8	303.7	315.5	941544.6	4.25	8.51	
125-3584	OZ	233.1	141.1	1	60	62	64.8	67.6	6992.6	16.68	33.56	A2
		12531.5	3584	25.4	1524	302.9	316.5	330.2	954897.5	5.08	10.23	
125-3114	OZ	233.1	122.59	1	56	65.3	67.8	70.4	6527.9	13.43	26.87	B3
		12534.3	3113.8	25.4	1422	318.7	331.2	343.7	891441.1	4.09	8.19	
128-2882	OZ	237.2	113.48	0.938	56	65.9	68.4	70.9	6641.9	13.43	26.87	A3
		12753.2	2882.4	23.812	1422	321.6	333.9	346.1	907004.3	4.09	8.19	
128-2832	OZ	238.5	111.48	1	53	68.6	71.2	73.7	6438.7	13.17	26.34	A3
		12821	2831.6	25.4	1371	335.1	347.6	360	879264.4	4.01	8.03	
128-2832	OZ	238.5	111.48	1	53	68.6	71.2	73.7	6438.7	13.17	26.34	A3
		12821	2831.6	25.4	1371	335.1	347.6	360	879265.9	4.01	8.03	
131-3215	OZ	243.9	126.59	0.938	60	63.6	66.1	68.6	7318.3	13.96	27.91	B3
		13115.2	3215.4	23.812	1524	310.4	322.6	334.7	999377.7	4.25	8.51	
132-2984	OZ	246.4	117.48	0.875	60	63.8	66.2	68.6	7391.9	13.96	27.91	A3
		13247.1	2984	22.225	1524	311.3	323.1	334.9	1009430	4.25	8.51	
135-2882	OZ	251.9	113.48	1	56	69.7	72.2	74.7	7051.9	13.43	26.87	A3
		13540.6	2882.4	25.4	1422	340.3	352.5	364.7	963006.2	4.09	8.19	
139-3215	OZ	259.1	126.59	1	60	67.3	69.7	72.2	7773.7	13.96	27.91	B3
		13931.4	3215.4	25.4	1524	328.4	340.5	352.7	1061569.1	4.25	8.51	
141-2984	OZ	262.9	117.48	0.938	60	67.7	70.1	72.6	7885.8	13.96	27.91	A3
		14132.2	2984	23.812	1524	330.7	342.5	354.3	1076876.4	4.25	8.51	

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	Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
							60%	80%	100%		Front	Front & Back	
			in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
01	150-2984	OZ	279.2	117.48	1	60	71.7	74.1	76.5	8376.5	13.96	27.91	A3
02			15011.7	2984	25.4	1524	350	361.8	373.6	1143890.5	4.25	8.51	

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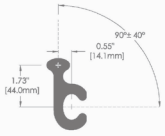
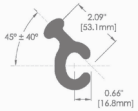
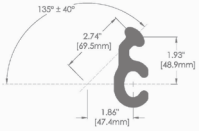
PilePro® Sheet Pile Connectors



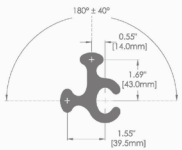
PZ 90



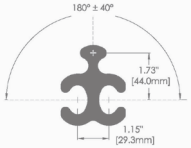
Colt



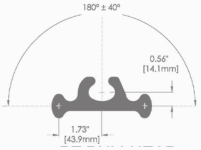
Cobra



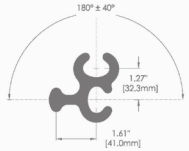
PZ Tee



Joker



Bullhead



PZT-S

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

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BALL & SOCKET
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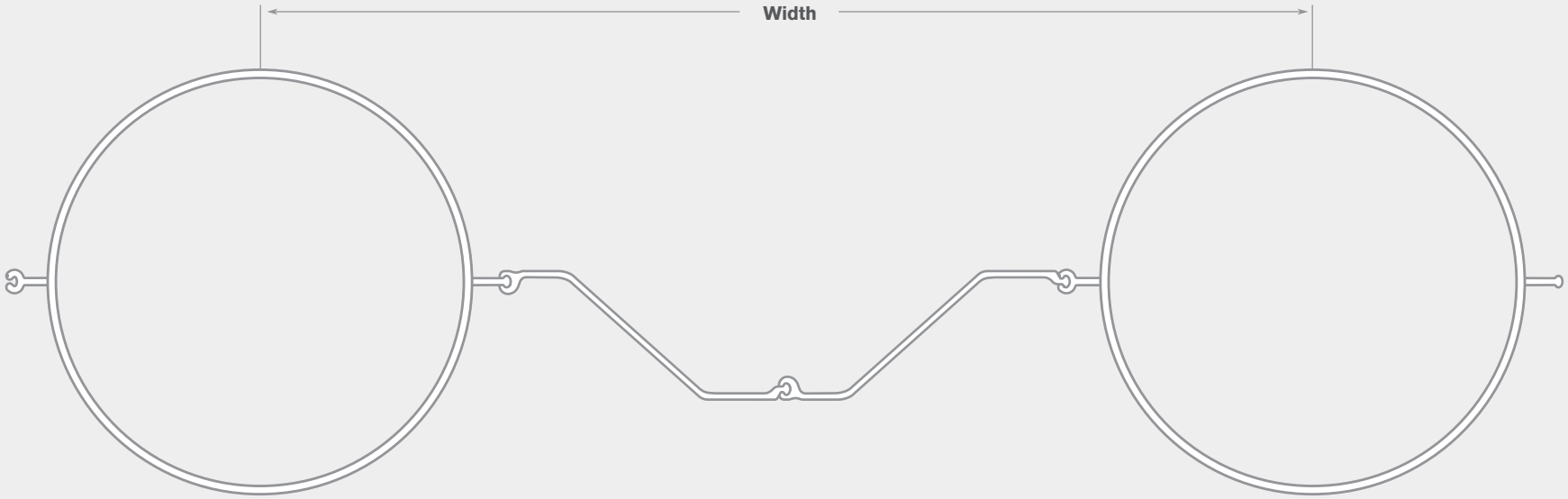
Configuration A



SECTION NAME:
73 - 2699

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible OZ-Pile solutions.
Please configure your own system on sheet-pile.com/oz-pile

Sheet Pile LLC is the owner and assignee of numerous patents and IP, that may be related to this sheet pile solution.

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
27-2147	OZ	49.7	84.51	0.625	24	32.8	36.3	39.8	596.6	15.35	17.50	A2
		2672.8	2146.60	15.875	609	159.9	177.2	194.4	81467.9	4.68	5.34	
27-2496	OZ	49.8	98.28	0.472	31	28.5	31.6	34.6	796.3	16.39	19.60	A1
		2675.8	2496.20	12	812	139.4	154.2	169.0	108742.5	5.00	5.97	
27-2401	OZ	49.8	94.51	0.375	34	26.6	29.7	32.9	846.1	16.66	20.12	A2
		2675.8	2400.60	9.525	863	129.8	145.2	160.6	115541.9	5.08	6.13	
27-2248	OZ	49.9	88.51	0.5	28	30.0	33.4	36.8	698.1	15.87	18.55	A2
		2681.0	2248.20	12.7	711	146.6	163.1	179.5	95334.9	4.84	5.65	
27-2445	OZ	49.9	96.28	0.394	30	28.3	32.6	36.9	748.1	17.25	20.12	A3
		2681.2	2445.40	10	762	138.3	159.2	180.0	102154.2	5.26	6.13	
27-2445	OZ	50.0	96.28	0.528	30	30.0	33.1	36.2	749.3	16.13	19.07	A1
		2685.6	2445.40	13.4	762	146.5	161.6	176.7	102321.7	4.92	5.81	
27-2598	OZ	50.1	102.28	0.394	36	26.3	29.2	32.2	901.8	16.92	20.65	A1
		2693.6	2597.80	10	914	128.5	142.8	157.0	123151.1	5.16	6.29	
27-2293	OZ	50.3	90.28	0.5	24	30.4	34.9	39.5	603.2	16.46	18.55	A3
		2702.7	2293.00	12.7	609	148.2	170.4	192.6	82377.7	5.02	5.66	
27-2547	OZ	50.7	100.28	0.438	34	27.7	30.7	33.6	861.9	16.66	20.12	A1
		2725.9	2547.00	11.112	863	135.3	149.8	164.3	117704.0	5.08	6.13	
27-2293	OZ	50.7	90.28	0.787	24	35.9	39.2	42.5	608.5	15.35	17.50	A1
		2726.4	2293.00	20	609	175.2	191.3	207.4	83101.5	4.68	5.34	
27-2496	OZ	50.7	98.28	0.375	31	28.0	32.2	36.4	811.7	17.51	20.65	A3
		2727.4	2496.20	9.525	812	136.8	157.2	177.6	110840.5	5.34	6.29	
27-2395	OZ	50.8	94.28	0.438	28	29.5	33.8	38.2	711.2	16.99	19.60	A3
		2731.1	2394.60	11.112	711	143.9	165.2	186.5	97116.4	5.18	5.97	
28-2299	OZ	51.6	90.51	0.472	30	29.7	32.9	36.2	774.5	16.13	19.07	A2
		2776.1	2299.00	12	762	144.8	160.9	176.9	105769.9	4.92	5.81	
28-2401	OZ	51.8	94.51	0.394	34	27.4	30.6	33.7	880.3	16.66	20.12	A2
		2784.0	2400.60	10	863	133.9	149.3	164.7	120214.5	5.08	6.13	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
28-2649	OZ	51.8	104.28	0.375	38	25.9	28.8	31.7	984.0	17.18	21.17	A1
		2784.4	2648.60	9.525	965	126.6	140.6	154.5	134373.6	5.24	6.45	
28-2445	OZ	51.8	96.28	0.551	30	30.9	34.0	37.1	777.3	16.13	19.07	A1
		2785.9	2445.40	14	762	151.0	166.1	181.2	106141.3	4.92	5.81	
28-2293	OZ	51.9	90.28	0.812	24	36.7	40.0	43.3	623.3	15.35	17.50	A1
		2792.4	2293.00	20.638	609	179.1	195.2	211.3	85112.5	4.68	5.34	
28-2395	OZ	52.2	94.28	0.625	28	32.8	35.9	39.1	731.1	15.87	18.55	A1
		2807.6	2394.60	15.875	711	160.0	175.4	190.9	99838.4	4.84	5.65	
28-2496	OZ	52.2	98.28	0.5	31	29.7	32.7	35.7	835.8	16.39	19.60	A1
		2808.4	2496.20	12.7	812	144.8	159.6	174.4	114133.1	5.00	5.97	
28-2350	OZ	52.4	92.51	0.438	31	28.8	32.0	35.3	838.9	16.39	19.60	A2
		2819.0	2349.80	11.112	812	140.7	156.4	172.2	114562.9	5.00	5.97	
28-2496	OZ	52.4	98.28	0.394	31	28.8	33.0	37.1	839.0	17.51	20.65	A3
		2819.2	2496.20	10	812	140.5	161.0	181.4	114570.9	5.34	6.29	
28-2445	OZ	52.7	96.28	0.562	30	31.4	34.5	37.5	790.6	16.13	19.07	A1
		2833.7	2445.40	14.288	762	153.1	168.2	183.3	107964.8	4.92	5.81	
28-2445	OZ	52.7	96.28	0.429	30	29.7	34.0	38.2	791.1	17.25	20.12	A3
		2835.6	2445.40	10.9	762	145.1	165.9	186.7	108037.2	5.26	6.13	
28-2293	OZ	53.0	90.28	0.551	24	32.0	36.6	41.1	635.5	16.46	18.55	A3
		2847.3	2293.00	14	609	156.3	178.6	200.8	86787.2	5.02	5.66	
29-2147	OZ	53.1	84.51	0.688	24	34.9	38.4	42.0	637.3	15.35	17.50	A2
		2855.2	2146.60	17.462	609	170.5	187.7	204.9	87025.5	4.68	5.34	
29-2598	OZ	53.2	102.28	0.421	36	27.5	30.5	33.4	957.1	16.92	20.65	A1
		2858.8	2597.80	10.7	914	134.5	148.7	162.9	130704.4	5.16	6.29	
29-2395	OZ	53.3	94.28	0.472	28	30.8	35.1	39.5	745.9	16.99	19.60	A3
		2864.4	2394.60	12	711	150.2	171.5	192.8	101857.9	5.18	5.97	
29-2451	OZ	53.4	96.51	0.375	36	27.0	30.1	33.2	960.3	16.92	20.65	A2
		2868.3	2451.40	9.525	914	131.9	147.0	162.1	131139.3	5.16	6.29	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
29-2547	OZ	53.4	100.28	0.375	34	28.4	32.5	36.6	908.1	17.77	21.17	A3
		2871.8	2547.00	9.525	863	138.8	158.8	178.8	124004.7	5.42	6.45	
29-2445	OZ	53.4	96.28	0.438	30	30.0	34.3	38.6	801.3	17.25	20.12	A3
		2871.9	2445.40	11.112	762	146.7	167.5	188.3	109420.1	5.26	6.13	
29-2293	OZ	53.6	90.28	0.562	24	32.4	36.9	41.5	642.6	16.46	18.55	A3
		2879.1	2293.00	14.288	609	158.1	180.4	202.6	87754.5	5.02	5.66	
29-2299	OZ	54.0	90.51	0.5	30	30.8	34.1	37.4	809.6	16.13	19.07	A2
		2901.9	2299.00	12.7	762	150.3	166.4	182.5	110562.0	4.92	5.81	
29-2649	OZ	54.1	104.28	0.394	38	26.8	29.7	32.5	1027.6	17.18	21.17	A1
		2907.8	2648.60	10	965	130.8	144.8	158.7	140329.6	5.24	6.45	
29-2547	OZ	54.2	100.28	0.472	34	29.2	32.2	35.1	921.4	16.66	20.12	A1
		2914.0	2547.00	12	863	142.5	157.0	171.5	125828.4	5.08	6.13	
29-2147	OZ	54.2	84.51	0.709	24	35.6	39.2	42.7	650.9	15.35	17.50	A2
		2916.2	2146.60	18	609	174.0	191.2	208.4	88886.4	4.68	5.34	
29-2344	OZ	54.4	92.28	0.75	26	36.0	39.3	42.5	707.5	15.61	18.03	A1
		2925.9	2343.80	19.05	660	175.9	191.6	207.4	96613.3	4.76	5.49	
29-2248	OZ	54.5	88.51	0.562	28	32.5	35.8	39.2	763.2	15.87	18.55	A2
		2930.7	2248.20	14.288	711	158.6	175.0	191.4	104217.2	4.84	5.65	
30-2293	OZ	55.0	90.28	0.875	24	38.7	42.0	45.3	659.5	15.35	17.50	A1
		2954.8	2293.00	22.225	609	188.8	204.9	221.0	90061.5	4.68	5.34	
30-2598	OZ	55.0	102.28	0.438	36	28.3	31.2	34.1	989.6	16.92	20.65	A1
		2955.8	2597.80	11.112	914	138.0	152.2	166.4	135139.0	5.16	6.29	
30-2395	OZ	55.2	94.28	0.5	28	31.8	36.1	40.5	773.1	16.99	19.60	A3
		2968.8	2394.60	12.7	711	155.2	176.5	197.7	105571.7	5.18	5.97	
30-2547	OZ	55.3	100.28	0.394	34	29.2	33.3	37.4	940.3	17.77	21.17	A3
		2973.8	2547.00	10	863	142.7	162.7	182.7	128408.7	5.42	6.45	
30-2451	OZ	55.6	96.51	0.394	36	27.9	31.0	34.1	1000.2	16.92	20.65	A2
		2987.6	2451.40	10	914	136.2	151.3	166.4	136592.2	5.16	6.29	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
30-2699	OZ	55.7	106.28	0.375	40	26.4	29.2	32.0	1114.4	17.44	21.69	A1
		2995.6	2699.40	9.525	1016	128.7	142.4	156.1	152175.7	5.32	6.61	
30-2350	OZ	55.8	92.51	0.472	31	30.3	33.5	36.8	892.4	16.39	19.60	A2
		2998.7	2349.80	12	812	148.0	163.8	179.5	121867.0	5.00	5.97	
30-2445	OZ	56.2	96.28	0.472	30	31.4	35.7	39.9	843.4	17.25	20.12	A3
		3022.8	2445.40	12	762	153.3	174.1	194.9	115169.3	5.26	6.13	
30-2299	OZ	56.3	90.51	0.528	30	31.9	35.2	38.5	844.5	16.13	19.07	A2
		3027.0	2299.00	13.4	762	155.8	171.9	188.0	115327.3	4.92	5.81	
30-2598	OZ	56.4	102.28	0.375	36	28.8	32.8	36.8	1014.6	18.03	21.70	A3
		3030.6	2597.80	9.525	914	140.7	160.3	179.9	138557.6	5.50	6.61	
30-2496	OZ	56.4	98.28	0.438	31	30.6	34.7	38.9	902.6	17.51	20.65	A3
		3032.9	2496.20	11.112	812	149.2	169.7	190.1	123255.3	5.34	6.29	
30-2147	OZ	56.4	84.51	0.75	24	37.1	40.6	44.1	677.3	15.35	17.50	A2
		3034.5	2146.60	19.05	609	180.9	198.1	215.3	92491.8	4.68	5.34	
30-2395	OZ	56.5	94.28	0.688	28	35.0	38.2	41.4	790.5	15.87	18.55	A1
		3035.6	2394.60	17.462	711	171.1	186.5	201.9	107947.5	4.84	5.65	
30-2401	OZ	56.5	94.51	0.438	34	29.4	32.5	35.7	960.0	16.66	20.12	A2
		3036.1	2400.60	11.112	863	143.5	158.9	174.3	131097.2	5.08	6.13	
30-2306	OZ	56.6	90.78	0.875	24	39.1	42.4	45.6	693.1	15.41	17.63	A1
		3042.0	2305.70	22.225	622	190.7	206.8	222.8	94651.7	4.70	5.38	
31-2293	OZ	56.8	90.28	0.625	24	34.4	39.0	43.5	681.3	16.46	18.55	A3
		3052.6	2293.00	15.875	609	168.0	190.2	212.5	93043.6	5.02	5.66	
31-2496	OZ	56.8	98.28	0.551	31	31.7	34.8	37.8	908.5	16.39	19.60	A1
		3052.8	2496.20	14	812	154.9	169.7	184.5	124067.8	5.00	5.97	
31-2547	OZ	56.9	100.28	0.5	34	30.3	33.3	36.3	968.1	16.66	20.12	A1
		3061.6	2547.00	12.7	863	148.2	162.7	177.2	132200.2	5.08	6.13	
31-2502	OZ	57.1	98.51	0.375	38	27.5	30.5	33.5	1085.2	17.18	21.17	A2
		3070.8	2502.20	9.525	965	134.0	148.8	163.6	148198.4	5.24	6.45	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
31-2445	OZ	57.6	96.28	0.625	30	33.8	36.8	39.9	863.8	16.13	19.07	A1
		3096.0	2445.40	15.875	762	164.8	179.9	195.0	117957.4	4.92	5.81	
31-2496	OZ	57.8	98.28	0.562	31	32.2	35.2	38.3	924.5	16.39	19.60	A1
		3106.6	2496.20	14.288	812	157.1	171.9	186.8	126251.5	5.00	5.97	
31-2293	OZ	57.9	90.28	0.938	24	40.6	43.9	47.2	695.1	15.35	17.50	A1
		3114.4	2293.00	23.812	609	198.4	214.5	230.6	94927.6	4.68	5.34	
31-2598	OZ	58.0	102.28	0.465	36	29.5	32.4	35.3	1043.5	16.92	20.65	A1
		3116.8	2597.80	11.8	914	143.8	158.0	172.3	142502.1	5.16	6.29	
31-2699	OZ	58.2	106.28	0.394	40	27.2	30.0	32.8	1164.4	17.44	21.69	A1
		3130.2	2699.40	10	1016	133.0	146.7	160.4	159013.1	5.32	6.61	
31-2299	OZ	58.3	90.51	0.551	30	32.9	36.2	39.5	874.3	16.13	19.07	A2
		3133.6	2299.00	14	762	160.6	176.6	192.7	119390.1	4.92	5.81	
31-2350	OZ	58.4	92.51	0.5	31	31.5	34.7	38.0	934.3	16.39	19.60	A2
		3139.6	2349.80	12.7	812	153.8	169.6	185.3	127593.4	5.00	5.97	
31-2147	OZ	58.4	84.51	0.787	24	38.3	41.9	45.4	700.9	15.35	17.50	A2
		3140.4	2146.60	20	609	187.1	204.4	221.6	95719.6	4.68	5.34	
31-2445	OZ	58.4	96.28	0.5	30	32.5	36.7	41.0	876.4	17.25	20.12	A3
		3141.1	2445.40	12.7	762	158.5	179.3	200.1	119674.5	5.26	6.13	
31-2598	OZ	58.5	102.28	0.394	36	29.6	33.7	37.7	1052.3	18.03	21.70	A3
		3143.1	2597.80	10	914	144.7	164.3	183.9	143703.1	5.50	6.61	
32-2451	OZ	58.8	96.51	0.421	36	29.2	32.3	35.4	1058.9	16.92	20.65	A2
		3162.7	2451.40	10.7	914	142.5	157.6	172.7	144596.6	5.16	6.29	
32-2598	OZ	58.8	102.28	0.472	36	29.8	32.7	35.6	1059.2	16.92	20.65	A1
		3163.6	2597.80	12	914	145.5	159.7	173.9	144637.8	5.16	6.29	
32-2248	OZ	59.1	88.51	0.625	28	34.9	38.3	41.6	827.3	15.87	18.55	A2
		3177.1	2248.20	15.875	711	170.4	186.9	203.3	112976.2	4.84	5.65	
32-2299	OZ	59.2	90.51	0.562	30	33.4	36.6	39.9	888.5	16.13	19.07	A2
		3184.5	2299.00	14.288	762	162.8	178.9	195.0	121329.7	4.92	5.81	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
32-2649	OZ	59.4	104.28	0.438	38	28.8	31.7	34.5	1129.3	17.18	21.17	A1
		3195.4	2648.60	11.112	965	140.6	154.5	168.5	154209.4	5.24	6.45	
32-2502	OZ	59.5	98.51	0.394	38	28.4	31.4	34.4	1131.4	17.18	21.17	A2
		3201.5	2502.20	10	965	138.5	153.2	168.0	154502.8	5.24	6.45	
32-2496	OZ	59.6	98.28	0.472	31	32.0	36.2	40.3	952.9	17.51	20.65	A3
		3202.0	2496.20	12	812	156.2	176.6	197.0	130131.0	5.34	6.29	
32-2649	OZ	59.6	104.28	0.375	38	29.2	33.1	37.1	1131.6	18.29	22.22	A3
		3202.1	2648.60	9.525	965	142.5	161.7	180.9	154531.5	5.58	6.77	
32-2395	OZ	59.6	94.28	0.562	28	34.1	38.4	42.8	834.2	16.99	19.60	A3
		3203.3	2394.60	14.288	711	166.4	187.7	208.9	113910.9	5.18	5.97	
32-2147	OZ	59.7	84.51	0.812	24	39.2	42.7	46.2	716.7	15.35	17.50	A2
		3210.9	2146.60	20.638	609	191.3	208.5	225.7	97867.8	4.68	5.34	
32-2547	OZ	59.7	100.28	0.438	34	31.1	35.2	39.3	1015.4	17.77	21.17	A3
		3211.3	2547.00	11.112	863	151.7	171.7	191.7	138665.9	5.42	6.45	
32-2750	OZ	59.8	108.28	0.375	42	26.8	29.5	32.3	1255.4	17.70	22.22	A1
		3214.1	2750.20	9.525	1066	130.6	144.1	157.5	171439.9	5.40	6.77	
32-2293	OZ	60.0	90.28	0.688	24	36.4	41.0	45.5	719.4	16.46	18.55	A3
		3223.3	2293.00	17.462	609	177.9	200.1	222.3	98246.4	5.02	5.66	
32-2401	OZ	60.2	94.51	0.472	34	31.0	34.1	37.3	1023.1	16.66	20.12	A2
		3235.7	2400.60	12	863	151.2	166.6	182.0	139717.2	5.08	6.13	
33-2445	OZ	60.6	96.28	0.528	30	33.5	37.8	42.1	909.2	17.25	20.12	A3
		3258.6	2445.40	13.4	762	163.7	184.5	205.3	124154.6	5.26	6.13	
33-2395	OZ	60.6	94.28	0.75	28	37.3	40.5	43.6	849.0	15.87	18.55	A1
		3260.5	2394.60	19.05	711	182.1	197.5	213.0	115943.0	4.84	5.65	
33-2451	OZ	60.7	96.51	0.438	36	29.9	33.0	36.1	1093.3	16.92	20.65	A2
		3265.4	2451.40	11.112	914	146.2	161.3	176.4	149295.9	5.16	6.29	
33-2293	OZ	60.8	90.28	1	24	42.6	45.9	49.2	730.2	15.35	17.50	A1
		3271.4	2293.00	25.4	609	208.0	224.1	240.2	99712.2	4.68	5.34	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
33-2293	OZ	61.0	90.28	0.709	24	37.1	41.7	46.2	732.2	16.46	18.55	A3
		3280.5	2293.00	18	609	181.2	203.4	225.6	99988.5	5.02	5.66	
33-2553	OZ	61.1	100.51	0.375	40	27.9	30.8	33.8	1221.1	17.44	21.69	A2
		3282.4	2553.00	9.525	1016	136.0	150.5	165.0	166746.2	5.32	6.61	
33-2598	OZ	61.5	102.28	0.421	36	30.9	34.9	38.9	1107.6	18.03	21.70	A3
		3308.3	2597.80	10.7	914	150.6	170.2	189.9	151256.4	5.50	6.61	
33-2649	OZ	61.9	104.28	0.394	38	30.0	34.0	37.9	1175.2	18.29	22.22	A3
		3325.5	2648.60	10	965	146.6	165.9	185.1	160487.4	5.58	6.77	
33-2197	OZ	61.9	86.51	0.75	26	38.4	41.9	45.3	804.3	15.61	18.03	A2
		3326.5	2197.40	19.05	660	187.6	204.4	221.2	109839.9	4.76	5.49	
33-2598	OZ	61.9	102.28	0.5	36	31.0	33.9	36.8	1113.7	16.92	20.65	A1
		3326.5	2597.80	12.7	914	151.4	165.6	179.9	152089.8	5.16	6.29	
33-2547	OZ	62.0	100.28	0.551	34	32.5	35.5	38.5	1054.1	16.66	20.12	A1
		3333.7	2547.00	14	863	158.7	173.2	187.7	143948.9	5.08	6.13	
33-2496	OZ	62.0	98.28	0.5	31	33.1	37.3	41.5	992.4	17.51	20.65	A3
		3334.7	2496.20	12.7	812	161.6	182.0	202.4	135521.6	5.34	6.29	
34-2445	OZ	62.4	96.28	0.688	30	36.1	39.2	42.3	936.0	16.13	19.07	A1
		3354.9	2445.40	17.462	762	176.5	191.6	206.7	127820.4	4.92	5.81	
34-2445	OZ	62.5	96.28	0.551	30	34.4	38.7	43.0	937.1	17.25	20.12	A3
		3358.9	2445.40	14	762	168.1	188.9	209.8	127974.1	5.26	6.13	
34-2750	OZ	62.5	108.28	0.394	42	27.7	30.4	33.2	1312.5	17.70	22.22	A1
		3360.1	2750.20	10	1066	135.1	148.5	162.0	179230.2	5.40	6.77	
34-2147	OZ	62.9	84.51	0.875	24	41.3	44.8	48.4	755.4	15.35	17.50	A2
		3384.3	2146.60	22.225	609	201.6	218.9	236.1	103154.3	4.68	5.34	
34-2699	OZ	63.0	106.28	0.375	40	29.5	33.4	37.3	1259.2	18.56	22.74	A3
		3384.9	2699.40	9.525	1016	144.2	163.1	182.0	171954.1	5.66	6.93	
34-2293	OZ	63.1	90.28	0.75	24	38.4	43.0	47.5	756.9	16.46	18.55	A3
		3391.2	2293.00	19.05	609	187.7	209.9	232.1	103363.7	5.02	5.66	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
34-2401	OZ	63.1	94.51	0.5	34	32.2	35.4	38.5	1072.6	16.66	20.12	A2
		3392.3	2400.60	12.7	863	157.2	172.6	188.0	146477.5	5.08	6.13	
34-2547	OZ	63.1	100.28	0.562	34	33.0	36.0	38.9	1073.0	16.66	20.12	A1
		3393.5	2547.00	14.288	863	161.0	175.5	190.1	146532.4	5.08	6.13	
34-2350	OZ	63.2	92.51	0.551	31	33.7	36.9	40.1	1011.6	16.39	19.60	A2
		3399.3	2349.80	14	812	164.6	180.3	196.0	138147.1	5.00	5.97	
34-2547	OZ	63.2	100.28	0.472	34	32.6	36.7	40.8	1074.9	17.77	21.17	A3
		3399.5	2547.00	12	863	159.0	179.0	199.0	146790.3	5.42	6.45	
34-2496	OZ	63.3	98.28	0.625	31	34.7	37.7	40.8	1012.2	16.39	19.60	A1
		3401.2	2496.20	15.875	812	169.4	184.2	199.0	138224.1	5.00	5.97	
34-2598	OZ	63.3	102.28	0.438	36	31.6	35.6	39.6	1140.1	18.03	21.70	A3
		3405.3	2597.80	11.112	914	154.1	173.7	193.3	155691.0	5.50	6.61	
34-2445	OZ	63.4	96.28	0.562	30	34.9	39.1	43.4	950.5	17.25	20.12	A3
		3406.8	2445.40	14.288	762	170.2	191.1	211.9	129797.6	5.26	6.13	
34-2248	OZ	63.6	88.51	0.688	28	37.3	40.7	44.1	890.6	15.87	18.55	A2
		3419.9	2248.20	17.462	711	182.2	198.7	215.1	121613.3	4.84	5.65	
34-2649	OZ	63.7	104.28	0.472	38	30.4	33.2	36.1	1209.8	17.18	21.17	A1
		3423.4	2648.60	12	965	148.4	162.3	176.3	165211.8	5.24	6.45	
34-2553	OZ	63.7	100.51	0.394	40	28.8	31.8	34.7	1274.0	17.44	21.69	A2
		3424.7	2553.00	10	1016	140.6	155.1	169.6	173975.7	5.32	6.61	
34-2395	OZ	63.9	94.28	0.625	28	36.4	40.7	45.1	894.4	16.99	19.60	A3
		3434.6	2394.60	15.875	711	177.5	198.8	220.1	122134.4	5.18	5.97	
34-2451	OZ	63.9	96.51	0.465	36	31.2	34.3	37.4	1150.4	16.92	20.65	A2
		3436.1	2451.40	11.8	914	152.4	167.5	182.5	157098.8	5.16	6.29	
34-2801	OZ	64.0	110.28	0.375	43	27.1	29.8	32.5	1407.4	17.96	22.74	A1
		3439.4	2801.00	9.525	1117	132.5	145.7	158.9	192191.0	5.48	6.93	
34-2445	OZ	64.0	96.28	0.709	30	36.9	40.0	43.1	960.2	16.13	19.07	A1
		3441.7	2445.40	18	762	180.4	195.5	210.6	131130.5	4.92	5.81	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
34-2699	OZ	64.1	106.28	0.438	40	29.3	32.1	34.9	1281.1	17.44	21.69	A1
		3443.9	2699.40	11.112	1016	143.1	156.8	170.5	174950.4	5.32	6.61	
35-2350	OZ	64.3	92.51	0.562	31	34.2	37.4	40.6	1028.6	16.39	19.60	A2
		3456.4	2349.80	14.288	812	166.9	182.7	198.4	140466.8	5.00	5.97	
35-2299	OZ	64.4	90.51	0.625	30	35.9	39.2	42.5	966.3	16.13	19.07	A2
		3463.5	2299.00	15.875	762	175.3	191.4	207.5	131958.7	4.92	5.81	
35-2159	OZ	64.5	85.01	0.875	24	41.7	45.2	48.7	790.7	15.41	17.63	A2
		3470.3	2159.30	22.225	622	203.7	220.8	237.9	107978.8	4.70	5.38	
35-2395	OZ	64.8	94.28	0.812	28	39.5	42.7	45.9	906.8	15.87	18.55	A1
		3482.2	2394.60	20.638	711	193.1	208.5	224.0	123826.1	4.84	5.65	
35-2451	OZ	64.8	96.51	0.472	36	31.6	34.7	37.8	1167.0	16.92	20.65	A2
		3485.6	2451.40	12	914	154.2	169.3	184.3	159362.0	5.16	6.29	
35-2293	OZ	64.9	90.28	0.787	24	39.6	44.2	48.7	779.0	16.46	18.55	A3
		3490.3	2293.00	20	609	193.5	215.7	237.9	106385.4	5.02	5.66	
35-2604	OZ	65.1	102.51	0.375	42	28.3	31.2	34.1	1368.0	17.70	22.22	A2
		3502.2	2603.80	9.525	1066	138.0	152.2	166.4	186809.3	5.40	6.77	
35-2502	OZ	65.2	98.51	0.438	38	30.5	33.5	36.5	1239.0	17.18	21.17	A2
		3505.9	2502.20	11.112	965	148.8	163.6	178.4	169194.7	5.24	6.45	
35-2699	OZ	65.5	106.28	0.394	40	30.4	34.3	38.2	1309.3	18.56	22.74	A3
		3519.5	2699.40	10	1016	148.5	167.4	186.3	178791.6	5.66	6.93	
35-2547	OZ	66.0	100.28	0.5	34	33.7	37.8	41.9	1121.6	17.77	21.17	A3
		3547.1	2547.00	12.7	863	164.6	184.6	204.6	153162.2	5.42	6.45	
36-2147	OZ	66.1	84.51	0.938	24	43.4	46.9	50.5	793.4	15.35	17.50	A2
		3554.9	2146.60	23.812	609	211.9	229.1	246.4	108352.3	4.68	5.34	
36-2293	OZ	66.1	90.28	0.812	24	40.4	45.0	49.5	793.8	16.46	18.55	A3
		3556.3	2293.00	20.638	609	197.4	219.6	241.8	108396.4	5.02	5.66	
36-2598	OZ	66.3	102.28	0.465	36	32.8	36.8	40.8	1194.0	18.03	21.70	A3
		3566.4	2597.80	11.8	914	159.9	179.6	199.2	163054.1	5.50	6.61	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
36-2750	OZ	66.6	108.28	0.375	42	29.9	33.7	37.5	1397.6	18.82	23.27	A3
		3578.0	2750.20	9.525	1066	145.9	164.4	182.9	190853.0	5.74	7.09	
36-2496	OZ	66.6	98.28	0.551	31	35.2	39.4	43.5	1065.2	17.51	20.65	A3
		3579.1	2496.20	14	812	171.7	192.1	212.5	145456.3	5.34	6.29	
36-2801	OZ	66.9	110.28	0.394	43	28.1	30.8	33.5	1472.0	17.96	22.74	A1
		3597.1	2801.00	10	1117	137.1	150.3	163.5	201008.6	5.48	6.93	
36-2649	OZ	67.0	104.28	0.5	38	31.6	34.5	37.4	1273.0	17.18	21.17	A1
		3602.3	2648.60	12.7	965	154.5	168.5	182.4	173845.8	5.24	6.45	
36-2445	OZ	67.2	96.28	0.75	30	38.5	41.6	44.7	1007.3	16.13	19.07	A1
		3610.4	2445.40	19.05	762	188.1	203.2	218.3	137554.6	4.92	5.81	
36-2598	OZ	67.2	102.28	0.472	36	33.1	37.1	41.1	1209.7	18.03	21.70	A3
		3613.1	2597.80	12	914	161.6	181.2	200.9	165189.8	5.50	6.61	
36-2649	OZ	67.2	104.28	0.438	38	32.0	36.0	39.9	1276.9	18.29	22.22	A3
		3613.1	2648.60	11.112	965	156.4	175.7	194.9	174367.2	5.58	6.77	
36-2344	OZ	67.3	92.28	0.75	26	39.7	44.1	48.6	874.3	16.72	19.08	A3
		3615.8	2343.80	19.05	660	193.8	215.5	237.2	119392.5	5.10	5.81	
36-2598	OZ	67.5	102.28	0.551	36	33.3	36.2	39.1	1214.4	16.92	20.65	A1
		3627.2	2597.80	14	914	162.4	176.6	190.8	165836.6	5.16	6.29	
36-2496	OZ	67.6	98.28	0.562	31	35.6	39.8	44.0	1081.1	17.51	20.65	A3
		3632.9	2496.20	14.288	812	173.9	194.4	214.8	147640.0	5.34	6.29	
37-2604	OZ	68.0	102.51	0.394	42	29.2	32.1	35.0	1428.2	17.70	22.22	A2
		3656.5	2603.80	10	1066	142.7	156.9	171.1	195037.6	5.40	6.77	
37-2451	OZ	68.0	96.51	0.5	36	32.9	35.9	39.0	1224.8	16.92	20.65	A2
		3658.3	2451.40	12.7	914	160.4	175.5	190.6	167259.1	5.16	6.29	
37-2248	OZ	68.1	88.51	0.75	28	39.7	43.1	46.5	952.9	15.87	18.55	A2
		3659.4	2248.20	19.05	711	194.0	210.4	226.8	130129.4	4.84	5.65	
37-2395	OZ	68.1	94.28	0.688	28	38.6	43.0	47.3	953.8	16.99	19.60	A3
		3662.6	2394.60	17.462	711	188.6	209.9	231.1	130243.5	5.18	5.97	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
37-2445	OZ	68.2	96.28	0.625	30	37.3	41.5	45.8	1023.7	17.25	20.12	A3
		3669.0	2445.40	15.875	762	182.0	202.8	223.6	139790.2	5.26	6.13	
37-2401	OZ	68.5	94.51	0.551	34	34.5	37.6	40.8	1163.9	16.66	20.12	A2
		3680.9	2400.60	14	863	168.4	183.8	199.2	158942.8	5.08	6.13	
37-2496	OZ	68.7	98.28	0.688	31	37.2	40.2	43.3	1098.8	16.39	19.60	A1
		3692.2	2496.20	17.462	812	181.6	196.4	211.3	150051.3	5.00	5.97	
37-2699	OZ	68.7	106.28	0.472	40	31.0	33.8	36.6	1373.7	17.44	21.69	A1
		3692.7	2699.40	12	1016	151.2	164.8	178.5	187588.0	5.32	6.61	
37-2598	OZ	68.7	102.28	0.562	36	33.7	36.7	39.6	1236.5	16.92	20.65	A1
		3693.4	2597.80	14.288	914	164.8	179.0	193.2	168860.6	5.16	6.29	
37-2750	OZ	68.8	108.28	0.438	42	29.8	32.6	35.3	1445.5	17.70	22.22	A1
		3700.7	2750.20	11.112	1066	145.5	159.0	172.4	197394.0	5.40	6.77	
37-2395	OZ	68.8	94.28	0.875	28	41.8	44.9	48.1	963.7	15.87	18.55	A1
		3700.7	2394.60	22.225	711	204.0	219.4	234.9	131598.2	4.84	5.65	
37-2293	OZ	69.2	90.28	0.875	24	42.4	47.0	51.5	830.0	16.46	18.55	A3
		3718.7	2293.00	22.225	609	207.1	229.3	251.5	113345.4	5.02	5.66	
37-2547	OZ	69.2	100.28	0.625	34	35.6	38.6	41.6	1176.8	16.66	20.12	A1
		3721.7	2547.00	15.875	863	173.8	188.4	202.9	160702.4	5.08	6.13	
37-2147	OZ	69.2	84.51	1	24	45.5	49.0	52.6	830.9	15.35	17.50	A2
		3722.5	2146.60	25.4	609	222.1	239.4	256.6	113463.2	4.68	5.34	
37-2750	OZ	69.3	108.28	0.394	42	30.8	34.6	38.4	1454.6	18.82	23.27	A3
		3724.1	2750.20	10	1066	150.3	168.9	187.4	198643.4	5.74	7.09	
37-2655	OZ	69.4	104.51	0.375	43	28.6	31.5	34.3	1526.2	17.96	22.74	A2
		3729.6	2654.60	9.525	1117	139.8	153.8	167.7	208410.7	5.48	6.93	
37-2299	OZ	69.5	90.51	0.688	30	38.4	41.7	45.0	1043.1	16.13	19.07	A2
		3738.8	2299.00	17.462	762	187.7	203.8	219.9	142449.8	4.92	5.81	
37-2401	OZ	69.6	94.51	0.562	34	35.0	38.1	41.3	1184.0	16.66	20.12	A2
		3744.4	2400.60	14.288	863	170.9	186.3	201.7	161683.7	5.08	6.13	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
37-2502	OZ	69.7	98.51	0.472	38	32.2	35.2	38.2	1324.3	17.18	21.17	A2
		3747.2	2502.20	12	965	157.1	171.8	186.6	180840.9	5.24	6.45	
38-2553	OZ	69.9	100.51	0.438	40	31.0	34.0	36.9	1397.4	17.44	21.69	A2
		3756.4	2553.00	11.112	1016	151.3	165.8	180.3	190826.9	5.32	6.61	
38-2445	OZ	70.0	96.28	0.787	30	39.9	43.0	46.1	1049.5	16.13	19.07	A1
		3761.7	2445.40	20	762	195.0	210.1	225.2	143319.2	4.92	5.81	
38-2350	OZ	70.1	92.51	0.625	31	36.9	40.1	43.3	1121.8	16.39	19.60	A2
		3769.3	2349.80	15.875	812	180.0	195.7	211.4	153185.4	5.00	5.97	
38-2598	OZ	70.2	102.28	0.5	36	34.3	38.3	42.4	1264.2	18.03	21.70	A3
		3776.1	2597.80	12.7	914	167.5	187.2	206.8	172641.9	5.50	6.61	
38-2801	OZ	70.3	110.28	0.375	43	30.2	33.9	37.7	1547.0	19.08	23.79	A3
		3780.5	2801.00	9.525	1117	147.5	165.7	183.9	211252.1	5.82	7.25	
38-2306	OZ	70.4	90.78	0.875	24	42.8	47.3	51.8	862.7	16.53	18.68	A3
		3786.2	2305.70	22.225	622	208.9	231.0	253.1	117807.4	5.04	5.70	
38-2496	OZ	70.5	98.28	0.709	31	38.0	41.1	44.1	1127.9	16.39	19.60	A1
		3789.9	2496.20	18	812	185.8	200.6	215.4	154022.9	5.00	5.97	
38-2547	OZ	71.0	100.28	0.551	34	35.9	40.0	44.1	1207.6	17.77	21.17	A3
		3819.1	2547.00	14	863	175.2	195.2	215.2	164910.9	5.42	6.45	
38-2299	OZ	71.3	90.51	0.709	30	39.3	42.6	45.9	1068.9	16.13	19.07	A2
		3831.2	2299.00	18	762	191.9	208.0	224.1	145970.6	4.92	5.81	
38-2699	OZ	71.3	106.28	0.438	40	32.5	36.4	40.2	1426.0	18.56	22.74	A3
		3833.2	2699.40	11.112	1016	158.6	177.5	196.4	194728.8	5.66	6.93	
38-2649	OZ	71.4	104.28	0.472	38	33.6	37.6	41.5	1357.4	18.29	22.22	A3
		3841.1	2648.60	12	965	164.2	183.4	202.7	185369.6	5.58	6.77	
39-2445	OZ	71.8	96.28	0.812	30	40.9	44.0	47.1	1077.6	16.13	19.07	A1
		3862.5	2445.40	20.638	762	199.6	214.8	229.9	147162.0	4.92	5.81	
39-2293	OZ	72.1	90.28	0.938	24	44.4	48.9	53.5	865.6	16.46	18.55	A3
		3878.3	2293.00	23.812	609	216.7	238.9	261.1	118211.5	5.02	5.66	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
39-2547	OZ	72.1	100.28	0.562	34	36.4	40.5	44.5	1226.5	17.77	21.17	A3
		3879.0	2547.00	14.288	863	177.5	197.5	217.5	167494.3	5.42	6.45	
39-2395	OZ	72.3	94.28	0.75	28	40.9	45.2	49.6	1012.3	16.99	19.60	A3
		3887.5	2394.60	19.05	711	199.6	220.9	242.2	138239.0	5.18	5.97	
39-2699	OZ	72.3	106.28	0.5	40	32.3	35.1	37.9	1446.3	17.44	21.69	A1
		3887.9	2699.40	12.7	1016	157.5	171.2	184.9	197507.6	5.32	6.61	
39-2248	OZ	72.5	88.51	0.812	28	42.1	45.5	48.9	1014.4	15.87	18.55	A2
		3895.6	2248.20	20.638	711	205.7	222.1	238.5	138525.9	4.84	5.65	
39-2655	OZ	72.5	104.51	0.394	43	29.6	32.5	35.3	1594.3	17.96	22.74	A2
		3896.1	2654.60	10	1117	144.7	158.6	172.5	217714.5	5.48	6.93	
39-2903	OZ	72.7	114.28	0.375	48	27.9	30.5	33.1	1744.7	18.49	23.79	A1
		3908.3	2902.60	9.525	1219	136.1	148.8	161.6	238249.2	5.64	7.25	
39-2395	OZ	72.8	94.28	0.938	28	44.0	47.2	50.3	1019.8	15.87	18.55	A1
		3916.2	2394.60	23.812	711	214.9	230.3	245.8	139260.0	4.84	5.65	
39-2496	OZ	73.1	98.28	0.625	31	38.1	42.3	46.5	1168.8	17.51	20.65	A3
		3927.5	2496.20	15.875	812	186.2	206.6	227.0	159612.6	5.34	6.29	
39-2445	OZ	73.1	96.28	0.688	30	39.7	43.9	48.2	1095.9	17.25	20.12	A3
		3927.9	2445.40	17.462	762	193.6	214.5	235.3	149653.2	5.26	6.13	
39-2649	OZ	73.1	104.28	0.551	38	34.0	36.8	39.7	1389.7	17.18	21.17	A1
		3932.4	2648.60	14	965	165.9	179.8	193.8	189778.6	5.24	6.45	
39-2502	OZ	73.2	98.51	0.5	38	33.5	36.5	39.5	1391.2	17.18	21.17	A2
		3936.6	2502.20	12.7	965	163.5	178.3	193.1	189980.0	5.24	6.45	
39-2801	OZ	73.3	110.28	0.394	43	31.1	34.9	38.6	1611.5	19.08	23.79	A3
		3938.3	2801.00	10	1117	152.1	170.3	188.5	220069.6	5.82	7.25	
40-2801	OZ	73.8	110.28	0.438	43	30.3	33.0	35.7	1622.5	17.96	22.74	A1
		3965.1	2801.00	11.112	1117	147.9	161.0	174.2	221570.2	5.48	6.93	
40-2750	OZ	73.9	108.28	0.472	42	31.5	34.3	37.0	1551.0	17.70	22.22	A1
		3970.8	2750.20	12	1066	153.8	167.3	180.7	211801.0	5.40	6.77	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
40-2451	OZ	74.0	96.51	0.551	36	35.2	38.3	41.4	1331.5	16.92	20.65	A2
		3977.0	2451.40	14	914	172.1	187.1	202.2	181826.8	5.16	6.29	
40-2496	OZ	74.0	98.28	0.75	31	39.7	42.7	45.8	1184.4	16.39	19.60	A1
		3979.7	2496.20	19.05	812	193.8	208.6	223.4	161734.2	5.00	5.97	
40-2649	OZ	74.5	104.28	0.562	38	34.5	37.3	40.2	1415.4	17.18	21.17	A1
		4005.1	2648.60	14.288	965	168.4	182.3	196.3	193284.4	5.24	6.45	
40-2299	OZ	74.6	90.51	0.75	30	41.0	44.3	47.6	1119.0	16.13	19.07	A2
		4010.6	2299.00	19.05	762	200.1	216.1	232.2	152803.8	4.92	5.81	
40-2445	OZ	74.7	96.28	0.709	30	40.5	44.7	49.0	1120.1	17.25	20.12	A3
		4014.8	2445.40	18	762	197.6	218.4	239.2	152963.3	5.26	6.13	
40-2604	OZ	74.7	102.51	0.438	42	31.5	34.4	37.3	1568.7	17.70	22.22	A2
		4016.2	2603.80	11.112	1066	153.7	167.9	182.1	214222.7	5.40	6.77	
40-2598	OZ	74.7	102.28	0.618	36	36.2	39.1	42.0	1344.7	16.92	20.65	A1
		4016.4	2597.80	15.7	914	176.6	190.9	205.1	183631.4	5.16	6.29	
40-2553	OZ	74.8	100.51	0.472	40	32.7	35.7	38.7	1495.2	17.44	21.69	A2
		4019.5	2553.00	12	1016	159.8	174.3	188.8	204189.2	5.32	6.61	
40-2649	OZ	74.8	104.28	0.5	38	34.9	38.8	42.8	1420.7	18.29	22.22	A3
		4020.0	2648.60	12.7	965	170.3	189.6	208.8	194003.6	5.58	6.77	
40-2293	OZ	75.1	90.28	1	24	46.3	50.9	55.4	900.7	16.46	18.55	A3
		4035.3	2293.00	25.4	609	226.2	248.5	270.7	122996.1	5.02	5.66	
40-2547	OZ	75.3	100.28	0.688	34	38.2	41.2	44.2	1279.4	16.66	20.12	A1
		4046.1	2547.00	17.462	863	186.6	201.1	215.6	174711.0	5.08	6.13	
40-2451	OZ	75.3	96.51	0.562	36	35.8	38.9	41.9	1355.0	16.92	20.65	A2
		4047.1	2451.40	14.288	914	174.6	189.7	204.8	185031.4	5.16	6.29	
41-2598	OZ	75.4	102.28	0.625	36	36.5	39.4	42.3	1358.0	16.92	20.65	A1
		4056.2	2597.80	15.875	914	178.1	192.3	206.6	185451.5	5.16	6.29	
41-2750	OZ	75.6	108.28	0.438	42	32.9	36.7	40.5	1587.6	18.82	23.27	A3
		4064.6	2750.20	11.112	1066	160.8	179.3	197.8	216807.1	5.74	7.09	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
41-2598	OZ	75.8	102.28	0.551	36	36.6	40.6	44.6	1364.9	18.03	21.70	A3
		4076.7	2597.80	14	914	178.5	198.1	217.7	186388.6	5.50	6.61	
41-2350	OZ	75.9	92.51	0.688	31	39.5	42.7	46.0	1213.8	16.39	19.60	A2
		4078.5	2349.80	17.462	812	193.0	208.7	224.4	165749.4	5.00	5.97	
41-2699	OZ	75.9	106.28	0.472	40	34.1	38.0	41.9	1518.5	18.56	22.74	A3
		4082.0	2699.40	12	1016	166.7	185.6	204.4	207366.5	5.66	6.93	
41-2903	OZ	76.1	114.28	0.394	48	28.9	31.5	34.1	1825.9	18.49	23.79	A1
		4090.3	2902.60	10	1219	140.9	153.7	166.4	249345.1	5.64	7.25	
41-2401	OZ	76.1	94.51	0.625	34	37.8	40.9	44.1	1294.1	16.66	20.12	A2
		4092.6	2400.60	15.875	863	184.4	199.8	215.2	176717.9	5.08	6.13	
41-2395	OZ	76.4	94.28	0.812	28	43.1	47.5	51.8	1070.0	16.99	19.60	A3
		4109.2	2394.60	20.638	711	210.6	231.9	253.2	146122.1	5.18	5.97	
41-2445	OZ	76.5	96.28	0.875	30	43.2	46.3	49.4	1147.1	16.13	19.07	A1
		4111.4	2445.40	22.225	762	211.2	226.3	241.4	156643.1	4.92	5.81	
41-2248	OZ	76.8	88.51	0.875	28	44.5	47.9	51.2	1075.0	15.87	18.55	A2
		4128.3	2248.20	22.225	711	217.3	233.7	250.2	146804.1	4.84	5.65	
41-2395	OZ	76.8	94.28	1	28	46.2	49.4	52.6	1075.1	15.87	18.55	A1
		4128.6	2394.60	25.4	711	225.7	241.1	256.6	146812.4	4.84	5.65	
41-2598	OZ	77.1	102.28	0.562	36	37.1	41.1	45.1	1387.0	18.03	21.70	A3
		4142.9	2597.80	14.288	914	180.9	200.5	220.1	189412.6	5.50	6.61	
42-2496	OZ	77.2	98.28	0.787	31	41.2	44.2	47.2	1235.1	16.39	19.60	A1
		4150.0	2496.20	20	812	201.1	215.9	230.7	168657.6	5.00	5.97	
42-2953	OZ	77.2	116.28	0.375	50	28.2	30.8	33.4	1930.3	18.75	24.31	A1
		4151.2	2953.40	9.525	1270	137.8	150.3	162.8	263598.6	5.71	7.41	
42-2547	OZ	77.3	100.28	0.709	34	39.1	42.1	45.0	1313.8	16.66	20.12	A1
		4155.1	2547.00	18	863	190.9	205.4	219.9	179417.6	5.08	6.13	
42-2299	OZ	77.6	90.51	0.787	30	42.5	45.8	49.1	1163.9	16.13	19.07	A2
		4171.5	2299.00	20	762	207.4	223.5	239.6	158935.5	4.92	5.81	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
42-2350	OZ	77.8	92.51	0.709	31	40.4	43.6	46.9	1244.7	16.39	19.60	A2
		4182.3	2349.80	18	812	197.3	213.1	228.8	169968.5	5.00	5.97	
42-2750	OZ	77.8	108.28	0.5	42	32.8	35.6	38.4	1633.8	17.70	22.22	A1
		4182.8	2750.20	12.7	1066	160.4	173.8	187.2	223112.5	5.40	6.77	
42-2445	OZ	77.8	96.28	0.75	30	42.0	46.3	50.6	1167.2	17.25	20.12	A3
		4183.4	2445.40	19.05	762	205.2	226.1	246.9	159387.4	5.26	6.13	
42-2756	OZ	78.2	108.51	0.375	48	29.4	32.1	34.9	1877.0	18.49	23.79	A2
		4204.7	2756.20	9.525	1219	143.3	156.7	170.2	256317.4	5.64	7.25	
42-2547	OZ	78.3	100.28	0.625	34	39.0	43.1	47.2	1330.3	17.77	21.17	A3
		4207.1	2547.00	15.875	863	190.3	210.3	230.3	181664.3	5.42	6.45	
42-2903	OZ	78.3	114.28	0.375	48	30.8	34.4	38.0	1879.4	19.60	24.84	A3
		4210.0	2902.60	9.525	1219	150.6	168.1	185.7	256643.0	5.98	7.57	
42-2496	OZ	78.5	98.28	0.688	31	40.6	44.8	49.0	1255.4	17.51	20.65	A3
		4218.5	2496.20	17.462	812	198.4	218.9	239.3	171439.8	5.34	6.29	
42-2553	OZ	78.6	100.51	0.5	40	34.1	37.1	40.0	1572.1	17.44	21.69	A2
		4225.9	2553.00	12.7	1016	166.5	181.0	195.5	214677.6	5.32	6.61	
42-2699	OZ	79.0	106.28	0.551	40	34.7	37.5	40.3	1580.4	17.44	21.69	A1
		4248.4	2699.40	14	1016	169.2	182.9	196.6	215819.1	5.32	6.61	
43-2801	OZ	79.2	110.28	0.472	43	32.0	34.7	37.4	1742.0	17.96	22.74	A1
		4257.0	2801.00	12	1117	156.4	169.6	182.8	237883.6	5.48	6.93	
43-2496	OZ	79.3	98.28	0.812	31	42.2	45.2	48.2	1268.9	16.39	19.60	A1
		4263.7	2496.20	20.638	812	205.9	220.7	235.6	173275.0	5.00	5.97	
43-2699	OZ	79.6	106.28	0.5	40	35.4	39.3	43.2	1591.2	18.56	22.74	A3
		4277.3	2699.40	12.7	1016	173.0	191.9	210.8	217286.1	5.66	6.93	
43-2299	OZ	79.6	90.51	0.812	30	43.5	46.8	50.1	1193.8	16.13	19.07	A2
		4278.8	2299.00	20.638	762	212.4	228.4	244.5	163023.1	4.92	5.81	
43-2655	OZ	79.7	104.51	0.438	43	32.0	34.8	37.7	1753.2	17.96	22.74	A2
		4284.4	2654.60	11.112	1117	156.0	169.9	183.9	239410.1	5.48	6.93	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
43-2502	OZ	79.7	98.51	0.551	38	36.0	39.0	42.0	1514.7	17.18	21.17	A2
		4286.1	2502.20	14	965	175.6	190.3	205.1	206845.0	5.24	6.45	
43-2604	OZ	80.0	102.51	0.472	42	33.3	36.2	39.1	1680.2	17.70	22.22	A2
		4301.5	2603.80	12	1066	162.5	176.7	190.9	229439.7	5.40	6.77	
43-2801	OZ	80.1	110.28	0.438	43	33.3	37.1	40.8	1762.1	19.08	23.79	A3
		4306.2	2801.00	11.112	1117	162.8	181.0	199.2	240631.2	5.82	7.25	
43-2496	OZ	80.3	98.28	0.709	31	41.5	45.7	49.9	1284.5	17.51	20.65	A3
		4316.2	2496.20	18	812	202.6	223.0	243.4	175411.4	5.34	6.29	
43-2395	OZ	80.5	94.28	0.875	28	45.4	49.7	54.1	1126.9	16.99	19.60	A3
		4327.7	2394.60	22.225	711	221.5	242.8	264.1	153894.2	5.18	5.97	
43-2699	OZ	80.5	106.28	0.562	40	35.2	38.0	40.8	1609.9	17.44	21.69	A1
		4327.7	2699.40	14.288	1016	171.8	185.5	199.2	219849.2	5.32	6.61	
43-2445	OZ	80.6	96.28	0.787	30	43.5	47.7	52.0	1209.4	17.25	20.12	A3
		4334.7	2445.40	20	762	212.2	233.0	253.8	165152.0	5.26	6.13	
43-2750	OZ	80.6	108.28	0.472	42	34.6	38.4	42.2	1693.1	18.82	23.27	A3
		4334.7	2750.20	12	1066	169.1	187.6	206.1	231214.1	5.74	7.09	
43-2953	OZ	80.8	116.28	0.394	50	29.2	31.8	34.4	2020.7	18.75	24.31	A1
		4345.6	2953.40	10	1270	142.8	155.3	167.8	275948.1	5.71	7.41	
44-2649	OZ	80.9	104.28	0.551	38	37.2	41.2	45.1	1537.3	18.29	22.22	A3
		4350.1	2648.60	14	965	181.7	200.9	220.2	209936.4	5.58	6.77	
44-2445	OZ	81.0	96.28	0.938	30	45.6	48.7	51.8	1215.6	16.13	19.07	A1
		4356.9	2445.40	23.812	762	222.6	237.7	252.9	165999.4	4.92	5.81	
44-2248	OZ	81.1	88.51	0.938	28	46.9	50.2	53.6	1134.8	15.87	18.55	A2
		4357.8	2248.20	23.812	711	228.9	245.3	261.8	154964.9	4.84	5.65	
44-2502	OZ	81.2	98.51	0.562	38	36.5	39.5	42.6	1541.9	17.18	21.17	A2
		4362.9	2502.20	14.288	965	178.2	193.0	207.8	210555.9	5.24	6.45	
44-2547	OZ	81.2	100.28	0.75	34	40.8	43.8	46.8	1380.8	16.66	20.12	A1
		4366.8	2547.00	19.05	863	199.3	213.8	228.3	188559.5	5.08	6.13	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
44-2350	OZ	81.5	92.51	0.75	31	42.2	45.4	48.6	1304.6	16.39	19.60	A2
		4383.9	2349.80	19.05	812	205.9	221.6	237.4	178160.3	5.00	5.97	
44-2451	OZ	81.6	96.51	0.618	36	38.3	41.4	44.5	1469.6	16.92	20.65	A2
		4389.4	2451.40	15.7	914	187.2	202.3	217.3	200684.4	5.16	6.29	
44-2903	OZ	81.7	114.28	0.394	48	31.8	35.4	39.0	1960.6	19.60	24.84	A3
		4392.0	2902.60	10	1219	155.4	172.9	190.5	267738.9	5.98	7.57	
44-2756	OZ	81.8	108.51	0.394	48	30.4	33.1	35.9	1962.5	18.49	23.79	A2
		4396.4	2756.20	10	1219	148.4	161.8	175.3	268002.7	5.64	7.25	
44-3004	OZ	81.8	118.28	0.375	52	28.6	31.1	33.6	2127.4	19.01	24.83	A1
		4399.2	3004.20	9.525	1320	139.4	151.7	164.1	290520.3	5.79	7.57	
44-2649	OZ	81.9	104.28	0.625	38	37.3	40.2	43.0	1556.3	17.18	21.17	A1
		4403.8	2648.60	15.875	965	182.2	196.1	210.1	212526.2	5.24	6.45	
44-2598	OZ	82.1	102.28	0.688	36	39.2	42.1	45.0	1478.2	16.92	20.65	A1
		4415.2	2597.80	17.462	914	191.4	205.6	219.8	201864.7	5.16	6.29	
44-2649	OZ	82.3	104.28	0.562	38	37.7	41.7	45.6	1563.0	18.29	22.22	A3
		4422.8	2648.60	14.288	965	184.2	203.4	222.7	213442.2	5.58	6.77	
44-2451	OZ	82.4	96.51	0.625	36	38.7	41.7	44.8	1483.7	16.92	20.65	A2
		4431.6	2451.40	15.875	914	188.7	203.8	218.9	202613.2	5.16	6.29	
44-2445	OZ	82.5	96.28	0.812	30	44.4	48.7	52.9	1237.5	17.25	20.12	A3
		4435.6	2445.40	20.638	762	216.8	237.6	258.5	168994.8	5.26	6.13	
44-2953	OZ	82.5	116.28	0.375	50	31.1	34.7	38.2	2062.7	19.87	25.36	A3
		4435.8	2953.40	9.525	1270	152.0	169.3	186.5	281676.0	6.05	7.73	
44-2401	OZ	82.5	94.51	0.688	34	40.6	43.7	46.9	1402.9	16.66	20.12	A2
		4436.8	2400.60	17.462	863	198.0	213.4	228.8	191580.9	5.08	6.13	
45-2807	OZ	82.8	110.51	0.375	50	29.7	32.4	35.1	2069.9	18.75	24.31	A2
		4451.4	2807.00	9.525	1270	145.0	158.2	171.3	282661.9	5.71	7.41	
45-2598	OZ	83.1	102.28	0.618	36	39.5	43.5	47.5	1495.2	18.03	21.70	A3
		4466.0	2597.80	15.7	914	192.8	212.4	232.0	204183.4	5.50	6.61	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
45-2801	OZ	83.4	110.28	0.5	43	33.4	36.1	38.8	1835.8	17.96	22.74	A1
		4486.3	2801.00	12.7	1117	163.1	176.3	189.5	250694.8	5.48	6.93	
45-2598	OZ	83.8	102.28	0.625	36	39.8	43.8	47.8	1508.5	18.03	21.70	A3
		4505.8	2597.80	15.875	914	194.2	213.9	233.5	206003.5	5.50	6.61	
45-2496	OZ	83.8	98.28	0.75	31	43.1	47.3	51.5	1341.0	17.51	20.65	A3
		4506.0	2496.20	19.05	812	210.6	231.0	251.4	183122.7	5.34	6.29	
45-2903	OZ	84.0	114.28	0.438	48	31.2	33.8	36.4	2015.5	18.49	23.79	A1
		4514.9	2902.60	11.112	1219	152.3	165.0	177.7	275229.4	5.64	7.25	
45-2604	OZ	84.2	102.51	0.5	42	34.7	37.6	40.5	1767.6	17.70	22.22	A2
		4525.4	2603.80	12.7	1066	169.4	183.6	197.8	241387.2	5.40	6.77	
45-2547	OZ	84.3	100.28	0.688	34	41.6	45.7	49.8	1432.9	17.77	21.17	A3
		4531.6	2547.00	17.462	863	203.1	223.1	243.1	195672.9	5.42	6.45	
45-2598	OZ	84.4	102.28	0.709	36	40.1	43.0	45.9	1518.6	16.92	20.65	A1
		4535.9	2597.80	18	914	195.9	210.1	224.3	207381.7	5.16	6.29	
45-2395	OZ	84.5	94.28	0.938	28	47.6	52.0	56.3	1183.1	16.99	19.60	A3
		4543.2	2394.60	23.812	711	232.4	253.7	275.0	161556.0	5.18	5.97	
45-2299	OZ	84.5	90.51	0.875	30	46.0	49.3	52.6	1267.6	16.13	19.07	A2
		4543.5	2299.00	22.225	762	224.6	240.7	256.8	173107.9	4.92	5.81	
45-2496	OZ	84.5	98.28	0.875	31	44.7	47.7	50.7	1352.3	16.39	19.60	A1
		4544.1	2496.20	22.225	812	218.0	232.8	247.6	184673.9	5.00	5.97	
45-2750	OZ	84.6	108.28	0.5	42	36.0	39.8	43.6	1776.0	18.82	23.27	A3
		4546.8	2750.20	12.7	1066	175.6	194.1	212.7	242525.6	5.74	7.09	
46-2401	OZ	84.7	94.51	0.709	34	41.5	44.6	47.8	1439.5	16.66	20.12	A2
		4552.4	2400.60	18	863	202.6	218.0	233.4	196574.4	5.08	6.13	
46-2547	OZ	84.8	100.28	0.787	34	42.4	45.3	48.3	1440.9	16.66	20.12	A1
		4557.0	2547.00	20	863	206.9	221.4	235.9	196770.5	5.08	6.13	
46-2350	OZ	84.9	92.51	0.787	31	43.7	47.0	50.2	1358.5	16.39	19.60	A2
		4564.8	2349.80	20	812	213.6	229.3	245.1	185514.9	5.00	5.97	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
46-2750	OZ	85.1	108.28	0.551	42	35.3	38.1	40.8	1786.8	17.70	22.22	A1
		4574.4	2750.20	14	1066	172.5	185.9	199.4	243999.0	5.40	6.77	
46-2248	OZ	85.3	88.51	1	28	49.2	52.6	56.0	1193.7	15.87	18.55	A2
		4584.1	2248.20	25.4	711	240.4	256.8	273.3	163009.1	4.84	5.65	
46-2655	OZ	85.4	104.51	0.472	43	33.8	36.7	39.5	1879.2	17.96	22.74	A2
		4592.4	2654.60	12	1117	165.0	179.0	192.9	256623.2	5.48	6.93	
46-2801	OZ	85.5	110.28	0.472	43	35.1	38.8	42.6	1881.6	19.08	23.79	A3
		4598.2	2801.00	12	1117	171.4	189.6	207.8	256944.7	5.82	7.25	
46-2445	OZ	85.5	96.28	1	30	47.9	51.0	54.1	1283.2	16.13	19.07	A1
		4599.3	2445.40	25.4	762	234.0	249.1	264.3	175231.5	4.92	5.81	
46-3004	OZ	85.7	118.28	0.394	52	29.6	32.1	34.6	2227.6	19.01	24.83	A1
		4606.3	3004.20	10	1320	144.5	156.8	169.1	304201.8	5.79	7.57	
46-2553	OZ	85.7	100.51	0.551	40	36.7	39.6	42.6	1713.8	17.44	21.69	A2
		4607.1	2553.00	14	1016	178.9	193.4	207.9	234039.2	5.32	6.61	
46-2953	OZ	86.1	116.28	0.394	50	32.1	35.7	39.2	2153.1	19.87	25.36	A3
		4630.3	2953.40	10	1270	157.0	174.2	191.5	294025.5	6.05	7.73	
46-2699	OZ	86.3	106.28	0.551	40	37.8	41.7	45.6	1725.2	18.56	22.74	A3
		4637.7	2699.40	14	1016	184.8	203.7	222.5	235597.5	5.66	6.93	
46-2547	OZ	86.3	100.28	0.709	34	42.5	46.6	50.7	1467.3	17.77	21.17	A3
		4640.6	2547.00	18	863	207.4	227.4	247.4	200379.5	5.42	6.45	
47-3055	OZ	86.5	120.28	0.375	53	28.9	31.4	33.8	2336.2	19.27	25.36	A1
		4652.0	3055.00	9.525	1371	141.0	153.1	165.2	319032.7	5.87	7.73	
47-2807	OZ	86.6	110.51	0.394	50	30.8	33.5	36.2	2165.0	18.75	24.31	A2
		4656.0	2807.00	10	1270	150.2	163.4	176.5	295655.5	5.71	7.41	
47-2750	OZ	86.7	108.28	0.562	42	35.9	38.6	41.4	1820.4	17.70	22.22	A1
		4660.6	2750.20	14.288	1066	175.2	188.6	202.1	248597.2	5.40	6.77	
47-3004	OZ	86.8	118.28	0.375	52	31.4	34.9	38.4	2257.6	20.13	25.88	A3
		4668.3	3004.20	9.525	1320	153.4	170.4	187.3	308292.1	6.13	7.89	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
47-2496	OZ	87.0	98.28	0.787	31	44.6	48.8	53.0	1391.7	17.51	20.65	A3
		4676.3	2496.20	20	812	217.9	238.3	258.7	190046.1	5.34	6.29	
47-2547	OZ	87.1	100.28	0.812	34	43.4	46.4	49.4	1481.0	16.66	20.12	A1
		4683.9	2547.00	20.638	863	212.0	226.5	241.0	202248.9	5.08	6.13	
47-2445	OZ	87.1	96.28	0.875	30	46.8	51.0	55.3	1307.0	17.25	20.12	A3
		4684.4	2445.40	22.225	762	228.3	249.1	270.0	178475.9	5.26	6.13	
47-2350	OZ	87.2	92.51	0.812	31	44.8	48.0	51.3	1394.4	16.39	19.60	A2
		4685.5	2349.80	20.638	812	218.8	234.5	250.2	190420.0	5.00	5.97	
47-2553	OZ	87.3	100.51	0.562	40	37.2	40.2	43.1	1745.0	17.44	21.69	A2
		4691.0	2553.00	14.288	1016	181.7	196.2	210.6	238300.4	5.32	6.61	
47-2858	OZ	87.5	112.51	0.375	52	30.0	32.7	35.3	2274.7	19.01	24.83	A2
		4703.6	2857.80	9.525	1320	146.6	159.5	172.5	310623.9	5.79	7.57	
47-2699	OZ	87.7	106.28	0.562	40	38.4	42.2	46.1	1754.8	18.56	22.74	A3
		4717.1	2699.40	14.288	1016	187.4	206.2	225.1	239627.7	5.66	6.93	
48-2395	OZ	88.5	94.28	1	28	49.8	54.2	58.5	1238.4	16.99	19.60	A3
		4755.6	2394.60	25.4	711	243.2	264.5	285.8	169108.4	5.18	5.97	
48-2699	OZ	88.6	106.28	0.625	40	38.1	40.9	43.7	1772.0	17.44	21.69	A1
		4763.3	2699.40	15.875	1016	186.1	199.8	213.5	241976.4	5.32	6.61	
48-2598	OZ	88.7	102.28	0.75	36	41.9	44.8	47.7	1597.1	16.92	20.65	A1
		4770.4	2597.80	19.05	914	204.6	218.8	233.1	218100.7	5.16	6.29	
48-2401	OZ	88.9	94.51	0.75	34	43.3	46.5	49.6	1510.5	16.66	20.12	A2
		4777.1	2400.60	19.05	863	211.5	226.9	242.3	206273.8	5.08	6.13	
48-2502	OZ	89.0	98.51	0.625	38	39.5	42.5	45.6	1691.0	17.18	21.17	A2
		4785.0	2502.20	15.875	965	192.9	207.6	222.4	230923.6	5.24	6.45	
48-2496	OZ	89.1	98.28	0.812	31	45.6	49.8	54.0	1425.5	17.51	20.65	A3
		4789.9	2496.20	20.638	812	222.7	243.2	263.6	194663.5	5.34	6.29	
48-2649	OZ	89.3	104.28	0.688	38	40.1	43.0	45.9	1695.8	17.18	21.17	A1
		4798.4	2648.60	17.462	965	196.0	209.9	223.9	231572.5	5.24	6.45	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
48-2953	OZ	89.3	116.28	0.438	50	31.6	34.2	36.7	2231.7	18.75	24.31	A1
		4799.4	2953.40	11.112	1270	154.4	166.9	179.4	304762.3	5.71	7.41	
48-2299	OZ	89.4	90.51	0.938	30	48.5	51.8	55.1	1340.5	16.13	19.07	A2
		4804.7	2299.00	23.812	762	236.8	252.9	269.0	183060.0	4.92	5.81	
48-2451	OZ	89.5	96.51	0.688	36	41.5	44.6	47.7	1611.1	16.92	20.65	A2
		4812.0	2451.40	17.462	914	202.8	217.9	233.0	220006.5	5.16	6.29	
48-2903	OZ	89.6	114.28	0.438	48	34.1	37.7	41.3	2150.2	19.60	24.84	A3
		4816.7	2902.60	11.112	1219	166.7	184.3	201.8	293623.3	5.98	7.57	
48-2496	OZ	89.7	98.28	0.938	31	47.1	50.1	53.2	1434.8	16.39	19.60	A1
		4821.2	2496.20	23.812	812	230.0	244.8	259.7	195932.2	5.00	5.97	
48-2649	OZ	89.7	104.28	0.625	38	40.6	44.5	48.4	1703.9	18.29	22.22	A3
		4821.5	2648.60	15.875	965	198.0	217.3	236.5	232684.1	5.58	6.77	
48-2801	OZ	89.8	110.28	0.5	43	36.5	40.2	43.9	1975.4	19.08	23.79	A3
		4827.4	2801.00	12.7	1117	178.1	196.3	214.5	269755.8	5.82	7.25	
48-2655	OZ	89.9	104.51	0.5	43	35.3	38.1	41.0	1978.2	17.96	22.74	A2
		4834.3	2654.60	12.7	1117	172.1	186.1	200.0	270140.9	5.48	6.93	
48-2756	OZ	90.1	108.51	0.438	48	32.8	35.6	38.3	2162.2	18.49	23.79	A2
		4843.5	2756.20	11.112	1219	160.4	173.8	187.2	295262.0	5.64	7.25	
49-2903	OZ	90.2	114.28	0.472	48	33.0	35.6	38.3	2165.9	18.49	23.79	A1
		4852.0	2902.60	12	1219	161.3	174.0	186.8	295775.5	5.64	7.25	
49-2547	OZ	90.3	100.28	0.75	34	44.2	48.3	52.4	1534.3	17.77	21.17	A3
		4852.3	2547.00	19.05	863	215.8	235.8	255.8	209521.4	5.42	6.45	
49-2598	OZ	90.5	102.28	0.688	36	42.5	46.5	50.5	1628.7	18.03	21.70	A3
		4864.8	2597.80	17.462	914	207.5	227.1	246.7	222416.7	5.50	6.61	
49-3055	OZ	90.6	120.28	0.394	53	29.9	32.4	34.9	2446.7	19.27	25.36	A1
		4872.0	3055.00	10	1371	146.2	158.3	170.4	334124.7	5.87	7.73	
49-3004	OZ	90.7	118.28	0.394	52	32.5	35.9	39.4	2357.8	20.13	25.88	A3
		4875.4	3004.20	10	1320	158.5	175.4	192.4	321973.6	6.13	7.89	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
49-3055	OZ	91.3	120.28	0.375	53	31.7	35.1	38.5	2464.2	20.39	26.41	A3
		4906.8	3055.00	9.525	1371	154.8	171.4	188.1	336509.0	6.21	8.05	
49-3106	OZ	91.3	122.28	0.375	56	29.2	31.6	34.1	2556.8	19.54	25.88	A1
		4909.4	3105.80	9.525	1422	142.6	154.5	166.4	349153.2	5.95	7.89	
49-2858	OZ	91.5	112.51	0.394	52	31.1	33.8	36.4	2380.0	19.01	24.83	A2
		4921.4	2857.80	10	1320	151.9	164.9	177.8	325006.3	5.79	7.57	
49-2445	OZ	91.7	96.28	0.938	30	49.1	53.4	57.6	1375.5	17.25	20.12	A3
		4930.0	2445.40	23.812	762	239.8	260.6	281.4	187832.3	5.26	6.13	
49-2649	OZ	91.7	104.28	0.709	38	41.1	43.9	46.8	1742.7	17.18	21.17	A1
		4931.2	2648.60	18	965	200.6	214.6	228.5	237977.3	5.24	6.45	
49-2750	OZ	91.8	108.28	0.598	42	37.6	40.4	43.1	1926.9	17.70	22.22	A1
		4933.3	2750.20	15.2	1066	183.7	197.1	210.5	263140.1	5.40	6.77	
49-2750	OZ	91.9	108.28	0.551	42	38.5	42.2	46.0	1928.9	18.82	23.27	A3
		4938.4	2750.20	14	1066	187.7	206.3	224.8	263412.2	5.74	7.09	
49-2604	OZ	91.9	102.51	0.551	42	37.3	40.2	43.1	1929.2	17.70	22.22	A2
		4939.0	2603.80	14	1066	182.2	196.4	210.6	263448.1	5.40	6.77	
49-2451	OZ	91.9	96.51	0.709	36	42.5	45.6	48.7	1653.9	16.92	20.65	A2
		4939.9	2451.40	18	914	207.6	222.6	237.7	225853.0	5.16	6.29	
50-2909	OZ	92.3	114.51	0.375	53	30.3	32.9	35.5	2491.4	19.27	25.36	A2
		4960.9	2908.60	9.525	1371	148.1	160.8	173.5	340220.4	5.87	7.73	
50-2401	OZ	92.6	94.51	0.787	34	45.0	48.1	51.3	1574.3	16.66	20.12	A2
		4978.8	2400.60	20	863	219.5	234.9	250.3	214985.6	5.08	6.13	
50-2598	OZ	92.6	102.28	0.787	36	43.5	46.4	49.4	1667.7	16.92	20.65	A1
		4981.0	2597.80	20	914	212.5	226.7	241.0	227733.0	5.16	6.29	
50-2350	OZ	92.7	92.51	0.875	31	47.4	50.7	53.9	1483.1	16.39	19.60	A2
		4983.5	2349.80	22.225	812	231.6	247.3	263.1	202529.2	5.00	5.97	
50-2598	OZ	92.7	102.28	0.709	36	43.4	47.4	51.5	1669.1	18.03	21.70	A3
		4985.4	2597.80	18	914	212.0	231.6	251.2	227933.7	5.50	6.61	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
50-2547	OZ	92.9	100.28	0.875	34	46.0	49.0	51.9	1580.1	16.66	20.12	A1
		4997.2	2547.00	22.225	863	224.6	239.1	253.6	215780.9	5.08	6.13	
50-2801	OZ	93.1	110.28	0.562	43	36.5	39.2	41.9	2047.2	17.96	22.74	A1
		5003.0	2801.00	14.288	1117	178.4	191.6	204.8	279566.6	5.48	6.93	
50-2750	OZ	93.5	108.28	0.562	42	39.0	42.8	46.6	1962.6	18.82	23.27	A3
		5024.6	2750.20	14.288	1066	190.4	208.9	227.5	268010.3	5.74	7.09	
50-2604	OZ	93.6	102.51	0.562	42	37.9	40.8	43.7	1964.8	17.70	22.22	A2
		5030.1	2603.80	14.288	1066	185.0	199.2	213.4	268304.8	5.40	6.77	
50-2547	OZ	93.8	100.28	0.787	34	45.8	49.8	53.9	1594.4	17.77	21.17	A3
		5042.4	2547.00	20	863	223.4	243.4	263.4	217732.4	5.42	6.45	
51-2299	OZ	94.2	90.51	1	30	51.0	54.3	57.6	1412.4	16.13	19.07	A2
		5062.5	2299.00	25.4	762	248.9	265.0	281.1	192879.9	4.92	5.81	
51-2496	OZ	94.3	98.28	0.875	31	48.1	52.3	56.5	1509.0	17.51	20.65	A3
		5070.4	2496.20	22.225	812	234.8	255.2	275.6	206062.4	5.34	6.29	
51-2953	OZ	94.6	116.28	0.438	50	34.5	38.1	41.6	2364.1	19.87	25.36	A3
		5084.1	2953.40	11.112	1270	168.6	185.8	203.1	322839.8	6.05	7.73	
51-3004	OZ	94.7	118.28	0.438	52	32.0	34.6	37.1	2461.4	19.01	24.83	A1
		5089.8	3004.20	11.112	1320	156.4	168.7	181.0	336128.1	5.79	7.57	
51-2496	OZ	94.8	98.28	1	31	49.6	52.6	55.6	1516.2	16.39	19.60	A1
		5094.8	2496.20	25.4	812	242.0	256.8	271.6	207051.5	5.00	5.97	
51-2401	OZ	95.1	94.51	0.812	34	46.1	49.2	52.4	1616.9	16.66	20.12	A2
		5113.4	2400.60	20.638	863	224.9	240.3	255.7	220798.1	5.08	6.13	
51-2560	OZ	95.1	100.78	0.875	34	46.3	49.3	52.2	1640.7	16.72	20.25	A1
		5113.5	2559.70	22.225	876	226.2	240.6	255.1	224048.2	5.10	6.17	
51-2903	OZ	95.2	114.28	0.5	48	34.5	37.1	39.7	2284.1	18.49	23.79	A1
		5116.7	2902.60	12.7	1219	168.4	181.1	193.9	311916.6	5.64	7.25	
51-2598	OZ	95.3	102.28	0.812	36	44.6	47.5	50.4	1714.7	16.92	20.65	A1
		5121.6	2597.80	20.638	914	217.8	232.0	246.2	234161.6	5.16	6.29	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
51-3055	OZ	95.4	120.28	0.394	53	32.8	36.2	39.6	2574.7	20.39	26.41	A3
		5126.9	3055.00	10	1371	159.9	176.6	193.3	351601.0	6.21	8.05	
51-2807	OZ	95.5	110.51	0.438	50	33.3	36.0	38.7	2387.0	18.75	24.31	A2
		5133.4	2807.00	11.112	1270	162.4	175.6	188.8	325972.6	5.71	7.41	
51-2750	OZ	95.5	108.28	0.625	42	38.9	41.7	44.4	2005.4	17.70	22.22	A1
		5134.0	2750.20	15.875	1066	189.9	203.4	216.8	273848.8	5.40	6.77	
51-3106	OZ	95.7	122.28	0.394	56	30.3	32.7	35.2	2678.2	19.54	25.88	A1
		5142.5	3105.80	10	1422	147.9	159.8	171.7	365735.1	5.95	7.89	
52-3106	OZ	95.8	122.28	0.375	56	32.0	35.3	38.7	2682.7	20.65	26.93	A3
		5151.1	3105.80	9.525	1422	156.1	172.5	188.9	366343.6	6.29	8.21	
52-2553	OZ	95.8	100.51	0.625	40	40.3	43.3	46.2	1916.4	17.44	21.69	A2
		5151.5	2553.00	15.875	1016	196.8	211.3	225.8	261696.4	5.32	6.61	
52-2699	OZ	95.8	106.28	0.625	40	41.3	45.2	49.0	1916.8	18.56	22.74	A3
		5152.7	2699.40	15.875	1016	201.7	220.5	239.4	261754.8	5.66	6.93	
52-2903	OZ	95.9	114.28	0.472	48	36.0	39.6	43.2	2300.6	19.60	24.84	A3
		5153.7	2902.60	12	1219	175.7	193.3	210.8	314169.4	5.98	7.57	
52-2953	OZ	96.0	116.28	0.472	50	33.5	36.1	38.6	2399.3	18.75	24.31	A1
		5159.7	2953.40	12	1270	163.6	176.1	188.6	327639.0	5.71	7.41	
52-2547	OZ	96.1	100.28	0.812	34	46.8	50.9	55.0	1634.5	17.77	21.17	A3
		5169.3	2547.00	20.638	863	228.5	248.5	268.5	223210.8	5.42	6.45	
52-2445	OZ	96.2	96.28	1	30	51.4	55.7	60.0	1443.1	17.25	20.12	A3
		5172.3	2445.40	25.4	762	251.2	272.0	292.9	197064.3	5.26	6.13	
52-2451	OZ	96.5	96.51	0.75	36	44.4	47.5	50.6	1737.1	16.92	20.65	A2
		5188.4	2451.40	19.05	914	216.8	231.9	247.0	237212.2	5.16	6.29	
52-2649	OZ	96.5	104.28	0.75	38	42.9	45.8	48.7	1833.8	17.18	21.17	A1
		5189.1	2648.60	19.05	965	209.7	223.7	237.6	250425.1	5.24	6.45	
52-2909	OZ	96.6	114.51	0.394	53	31.5	34.1	36.7	2607.5	19.27	25.36	A2
		5192.1	2908.60	10	1371	153.6	166.3	179.0	356072.0	5.87	7.73	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
52-2699	OZ	96.6	106.28	0.688	40	41.0	43.8	46.7	1932.4	17.44	21.69	A1
		5194.7	2699.40	17.462	1016	200.4	214.1	227.8	263890.1	5.32	6.61	
52-2756	OZ	96.7	108.51	0.472	48	34.8	37.5	40.3	2320.6	18.49	23.79	A2
		5198.5	2756.20	12	1219	169.9	183.3	196.7	316899.4	5.64	7.25	
52-2502	OZ	96.8	98.51	0.688	38	42.5	45.5	48.5	1838.7	17.18	21.17	A2
		5202.7	2502.20	17.462	965	207.4	222.2	237.0	251084.2	5.24	6.45	
52-2649	OZ	97.0	104.28	0.688	38	43.4	47.3	51.3	1843.4	18.29	22.22	A3
		5216.1	2648.60	17.462	965	211.8	231.0	250.3	251730.3	5.58	6.77	
52-2598	OZ	97.1	102.28	0.75	36	45.2	49.2	53.2	1747.6	18.03	21.70	A3
		5219.9	2597.80	19.05	914	220.8	240.4	260.0	238652.7	5.50	6.61	
52-2959	OZ	97.1	116.51	0.375	56	30.6	33.2	35.8	2720.2	19.54	25.88	A2
		5223.1	2959.40	9.525	1422	149.6	162.1	174.6	371467.2	5.95	7.89	
53-2350	OZ	98.2	92.51	0.938	31	50.1	53.3	56.5	1570.7	16.39	19.60	A2
		5277.8	2349.80	23.812	812	244.4	260.1	275.8	214488.9	5.00	5.97	
53-2750	OZ	98.5	108.28	0.598	42	40.7	44.5	48.3	2069.1	18.82	23.27	A3
		5297.2	2750.20	15.2	1066	198.9	217.4	236.0	282553.3	5.74	7.09	
53-2547	OZ	98.7	100.28	0.938	34	48.6	51.5	54.5	1678.1	16.66	20.12	A1
		5307.0	2547.00	23.812	863	237.2	251.7	266.2	229156.3	5.08	6.13	
53-2604	OZ	98.9	102.51	0.598	42	39.7	42.6	45.5	2077.2	17.70	22.22	A2
		5318.1	2603.80	15.2	1066	194.0	208.2	222.4	283665.4	5.40	6.77	
53-2750	OZ	98.9	108.28	0.65	42	40.1	42.8	45.6	2077.7	17.70	22.22	A1
		5319.2	2750.20	16.5	1066	195.7	209.2	222.6	283726.8	5.40	6.77	
53-2699	OZ	99.3	106.28	0.709	40	42.0	44.8	47.6	1986.4	17.44	21.69	A1
		5339.8	2699.40	18	1016	205.2	218.9	232.6	271261.8	5.32	6.61	
53-2502	OZ	99.4	98.51	0.709	38	43.5	46.5	49.5	1888.3	17.18	21.17	A2
		5343.2	2502.20	18	965	212.4	227.1	241.9	257863.8	5.24	6.45	
53-2801	OZ	99.4	110.28	0.562	43	39.6	43.3	47.1	2186.8	19.08	23.79	A3
		5344.1	2801.00	14.288	1117	193.4	211.5	229.7	298627.6	5.82	7.25	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
53-2496	OZ	99.5	98.28	0.938	31	50.6	54.7	58.9	1591.4	17.51	20.65	A3
		5347.5	2496.20	23.812	812	246.8	267.3	287.7	217320.7	5.34	6.29	
53-2649	OZ	99.5	104.28	0.709	38	44.3	48.3	52.2	1890.3	18.29	22.22	A3
		5348.8	2648.60	18	965	216.5	235.7	254.9	258135.1	5.58	6.77	
54-3004	OZ	99.7	118.28	0.438	52	34.9	38.4	41.8	2591.6	20.13	25.88	A3
		5358.9	3004.20	11.112	1320	170.3	187.3	204.3	353899.9	6.13	7.89	
54-2655	OZ	100.1	104.51	0.562	43	38.6	41.4	44.3	2201.3	17.96	22.74	A2
		5379.5	2654.60	14.288	1117	188.2	202.1	216.1	300605.0	5.48	6.93	
54-3106	OZ	100.1	122.28	0.394	56	33.0	36.4	39.8	2804.1	20.65	26.93	A3
		5384.2	3105.80	10	1422	161.4	177.8	194.2	382925.5	6.29	8.21	
54-3055	OZ	100.2	120.28	0.438	53	32.4	34.9	37.4	2704.7	19.27	25.36	A1
		5385.7	3055.00	11.112	1371	158.3	170.4	182.5	369348.6	5.87	7.73	
54-2451	OZ	100.7	96.51	0.787	36	46.1	49.2	52.3	1811.8	16.92	20.65	A2
		5411.6	2451.40	20	914	225.2	240.3	255.4	247419.8	5.16	6.29	
54-2903	OZ	100.8	114.28	0.5	48	37.4	41.0	44.6	2418.8	19.60	24.84	A3
		5418.5	2902.60	12.7	1219	182.8	200.4	217.9	330310.4	5.98	7.57	
54-2649	OZ	100.8	104.28	0.787	38	44.6	47.5	50.3	1915.8	17.18	21.17	A1
		5420.9	2648.60	20	965	217.9	231.8	245.8	261614.5	5.24	6.45	
54-2858	OZ	101.0	112.51	0.438	52	33.7	36.3	39.0	2625.7	19.01	24.83	A2
		5429.6	2857.80	11.112	1320	164.4	177.3	190.3	358568.1	5.79	7.57	
54-2598	OZ	101.0	102.28	0.787	36	46.8	50.8	54.9	1818.2	18.03	21.70	A3
		5430.6	2597.80	20	914	228.7	248.3	267.9	248285.1	5.50	6.61	
54-2953	OZ	101.2	116.28	0.5	50	35.0	37.6	40.1	2530.9	18.75	24.31	A1
		5442.7	2953.40	12.7	1270	170.9	183.4	195.9	345613.5	5.71	7.41	
54-2953	OZ	101.3	116.28	0.472	50	36.4	40.0	43.5	2531.6	19.87	25.36	A3
		5444.4	2953.40	12	1270	177.8	195.1	212.3	345716.5	6.05	7.73	
54-2401	OZ	101.3	94.51	0.875	34	48.8	52.0	55.1	1722.0	16.66	20.12	A2
		5445.9	2400.60	22.225	863	238.3	253.7	269.1	235155.4	5.08	6.13	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
55-2959	OZ	101.7	116.51	0.394	56	31.8	34.3	36.9	2847.6	19.54	25.88	A2
		5467.8	2959.40	10	1422	155.2	167.7	180.2	388869.4	5.95	7.89	
55-2598	OZ	101.7	102.28	0.875	36	47.3	50.2	53.1	1831.1	16.92	20.65	A1
		5469.1	2597.80	22.225	914	230.9	245.2	259.4	250048.1	5.16	6.29	
55-3004	OZ	101.8	118.28	0.472	52	34.0	36.5	39.0	2647.1	19.01	24.83	A1
		5473.7	3004.20	12	1320	165.8	178.1	190.4	361480.6	5.79	7.57	
55-2756	OZ	101.9	108.51	0.5	48	36.3	39.1	41.8	2445.1	18.49	23.79	A2
		5477.3	2756.20	12.7	1219	177.3	190.7	204.2	333897.8	5.64	7.25	
55-2547	OZ	102.0	100.28	0.875	34	49.4	53.5	57.6	1733.6	17.77	21.17	A3
		5482.7	2547.00	22.225	863	241.1	261.1	281.1	236742.8	5.42	6.45	
55-2903	OZ	102.2	114.28	0.539	48	36.6	39.2	41.8	2452.3	18.49	23.79	A1
		5493.4	2902.60	13.7	1219	178.5	191.3	204.0	334876.8	5.64	7.25	
55-2750	OZ	102.3	108.28	0.625	42	42.0	45.8	49.6	2147.5	18.82	23.27	A3
		5498.0	2750.20	15.875	1066	205.2	223.7	242.2	293261.9	5.74	7.09	
55-2807	OZ	102.5	110.51	0.472	50	35.3	38.0	40.7	2563.3	18.75	24.31	A2
		5512.5	2807.00	12	1270	172.1	185.3	198.5	350042.4	5.71	7.41	
55-2801	OZ	102.6	110.28	0.625	43	39.6	42.4	45.1	2256.8	17.96	22.74	A1
		5515.2	2801.00	15.875	1117	193.6	206.8	220.0	308186.7	5.48	6.93	
55-2604	OZ	102.9	102.51	0.625	42	41.1	44.0	46.9	2160.1	17.70	22.22	A2
		5530.1	2603.80	15.875	1066	200.6	214.8	229.0	294976.2	5.40	6.77	
56-2451	OZ	103.4	96.51	0.812	36	47.3	50.4	53.4	1861.7	16.92	20.65	A2
		5560.6	2451.40	20.638	914	230.8	245.9	261.0	254232.3	5.16	6.29	
56-2413	OZ	103.5	95.01	0.875	34	49.1	52.3	55.4	1785.5	16.72	20.25	A2
		5564.8	2413.30	22.225	876	239.9	255.2	270.6	243822.2	5.10	6.17	
56-2350	OZ	103.6	92.51	1	31	52.7	55.9	59.1	1657.2	16.39	19.60	A2
		5568.4	2349.80	25.4	812	257.1	272.8	288.6	226301.0	5.00	5.97	
56-2598	OZ	103.6	102.28	0.812	36	47.9	51.9	55.9	1865.2	18.03	21.70	A3
		5571.2	2597.80	20.638	914	233.9	253.5	273.2	254713.6	5.50	6.61	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
56-2649	OZ	103.7	104.28	0.812	38	45.8	48.6	51.5	1970.5	17.18	21.17	A1
		5575.7	2648.60	20.638	965	223.4	237.3	251.3	269084.8	5.24	6.45	
56-2699	OZ	103.9	106.28	0.688	40	44.2	48.1	52.0	2077.3	18.56	22.74	A3
		5584.0	2699.40	17.462	1016	215.9	234.8	253.7	283668.6	5.66	6.93	
56-2560	OZ	104.0	100.78	0.875	34	49.7	53.8	57.8	1793.4	17.84	21.30	A3
		5589.5	2559.70	22.225	876	242.6	262.5	282.4	244906.1	5.44	6.49	
56-2750	OZ	104.2	108.28	0.688	42	41.9	44.7	47.4	2188.6	17.70	22.22	A1
		5603.1	2750.20	17.462	1066	204.6	218.1	231.5	298869.2	5.40	6.77	
56-2649	OZ	104.3	104.28	0.75	38	46.2	50.1	54.1	1981.4	18.29	22.22	A3
		5606.8	2648.60	19.05	965	225.5	244.8	264.0	270582.9	5.58	6.77	
56-2553	OZ	104.3	100.51	0.688	40	43.4	46.4	49.3	2086.0	17.44	21.69	A2
		5607.6	2553.00	17.462	1016	211.9	226.4	240.8	284866.8	5.32	6.61	
56-2547	OZ	104.4	100.28	1	34	51.1	54.1	57.1	1774.9	16.66	20.12	A1
		5613.2	2547.00	25.4	863	249.7	264.2	278.7	242376.5	5.08	6.13	
56-2502	OZ	104.5	98.51	0.75	38	45.5	48.5	51.5	1984.8	17.18	21.17	A2
		5616.2	2502.20	19.05	965	222.0	236.7	251.5	271039.9	5.24	6.45	
56-2496	OZ	104.6	98.28	1	31	53.0	57.2	61.4	1672.8	17.51	20.65	A3
		5621.1	2496.20	25.4	812	258.8	279.2	299.6	228440.0	5.34	6.29	
56-2699	OZ	104.6	106.28	0.75	40	44.0	46.8	49.6	2091.3	17.44	21.69	A1
		5621.9	2699.40	19.05	1016	214.6	228.3	242.0	285592.4	5.32	6.61	
56-3055	OZ	104.9	120.28	0.438	53	35.2	38.7	42.1	2832.7	20.39	26.41	A3
		5640.5	3055.00	11.112	1371	172.1	188.8	205.4	386824.9	6.21	8.05	
57-2750	OZ	105.7	108.28	0.65	42	43.2	47.0	50.8	2219.8	18.82	23.27	A3
		5683.2	2750.20	16.5	1066	211.0	229.5	248.0	303140.0	5.74	7.09	
57-3106	OZ	105.8	122.28	0.438	56	32.8	35.3	37.7	2961.7	19.54	25.88	A1
		5686.7	3105.80	11.112	1422	160.2	172.1	184.0	404440.1	5.95	7.89	
57-2903	OZ	106.3	114.28	0.562	48	37.8	40.4	43.0	2550.6	18.49	23.79	A1
		5713.8	2902.60	14.288	1219	184.5	197.2	209.9	348312.2	5.64	7.25	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
57-2604	OZ	106.5	102.51	0.65	42	42.3	45.2	48.2	2236.5	17.70	22.22	A2
		5725.7	2603.80	16.5	1066	206.7	220.9	235.1	305409.6	5.40	6.77	
57-2953	OZ	106.5	116.28	0.5	50	37.9	41.4	45.0	2663.3	19.87	25.36	A3
		5727.4	2953.40	12.7	1270	185.1	202.3	219.6	363691.0	6.05	7.73	
57-2699	OZ	106.6	106.28	0.709	40	45.2	49.1	52.9	2131.2	18.56	22.74	A3
		5729.1	2699.40	18	1016	220.7	239.6	258.5	291040.3	5.66	6.93	
57-2909	OZ	106.6	114.51	0.438	53	34.1	36.7	39.3	2878.4	19.27	25.36	A2
		5731.5	2908.60	11.112	1371	166.3	179.0	191.7	393068.8	5.87	7.73	
57-3004	OZ	106.8	118.28	0.472	52	36.8	40.3	43.8	2777.2	20.13	25.88	A3
		5742.8	3004.20	12	1320	179.8	196.8	213.7	379252.4	6.13	7.89	
58-2750	OZ	107.2	108.28	0.709	42	42.9	45.7	48.4	2250.2	17.70	22.22	A1
		5760.9	2750.20	18	1066	209.6	223.0	236.5	307288.5	5.40	6.77	
58-2553	OZ	107.2	100.51	0.709	40	44.4	47.4	50.4	2143.1	17.44	21.69	A2
		5761.0	2553.00	18	1016	217.0	231.4	245.9	292661.3	5.32	6.61	
58-2401	OZ	107.4	94.51	0.938	34	51.5	54.7	57.8	1825.9	16.66	20.12	A2
		5774.6	2400.60	23.812	863	251.6	267.0	282.4	249346.4	5.08	6.13	
58-3004	OZ	107.4	118.28	0.5	52	35.5	38.0	40.5	2793.0	19.01	24.83	A1
		5775.3	3004.20	12.7	1320	173.3	185.6	197.9	381402.7	5.79	7.57	
58-2547	OZ	107.7	100.28	0.938	34	51.9	56.0	60.1	1831.6	17.77	21.17	A3
		5792.5	2547.00	23.812	863	253.6	273.6	293.6	250118.2	5.42	6.45	
58-3055	OZ	107.8	120.28	0.472	53	34.4	36.9	39.4	2909.5	19.27	25.36	A1
		5793.6	3055.00	12	1371	168.0	180.1	192.2	397322.4	5.87	7.73	
58-2903	OZ	107.8	114.28	0.539	48	39.5	43.1	46.7	2586.9	19.60	24.84	A3
		5795.1	2902.60	13.7	1219	193.0	210.5	228.1	353270.6	5.98	7.57	
58-2807	OZ	108.1	110.51	0.5	50	36.8	39.5	42.2	2701.8	18.75	24.31	A2
		5810.3	2807.00	12.7	1270	179.8	193.0	206.1	368954.4	5.71	7.41	
58-2598	OZ	108.1	102.28	0.938	36	50.0	52.9	55.8	1946.1	16.92	20.65	A1
		5812.8	2597.80	23.812	914	244.0	258.2	272.5	265761.4	5.16	6.29	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
58-2858	OZ	108.5	112.51	0.472	52	35.7	38.4	41.0	2820.9	19.01	24.83	A2
		5833.1	2857.80	12	1320	174.3	187.3	200.2	385219.4	5.79	7.57	
58-2649	OZ	108.6	104.28	0.787	38	47.9	51.8	55.8	2063.4	18.29	22.22	A3
		5838.6	2648.60	20	965	233.7	253.0	272.2	281772.3	5.58	6.77	
59-2801	OZ	108.9	110.28	0.625	43	42.7	46.4	50.2	2396.4	19.08	23.79	A3
		5856.3	2801.00	15.875	1117	208.6	226.7	244.9	327247.8	5.82	7.25	
59-2502	OZ	109.0	98.51	0.787	38	47.2	50.3	53.3	2071.5	17.18	21.17	A2
		5861.7	2502.20	20	965	230.6	245.4	260.2	282883.9	5.24	6.45	
59-2756	OZ	109.3	108.51	0.539	48	38.5	41.3	44.0	2622.1	18.49	23.79	A2
		5874.0	2756.20	13.7	1219	188.0	201.4	214.8	358077.5	5.64	7.25	
59-2699	OZ	109.3	106.28	0.787	40	45.7	48.5	51.3	2185.7	17.44	21.69	A1
		5875.6	2699.40	20	1016	223.1	236.8	250.5	298478.9	5.32	6.61	
59-2598	OZ	110.1	102.28	0.875	36	50.6	54.6	58.6	1981.6	18.03	21.70	A3
		5918.6	2597.80	22.225	914	247.1	266.7	286.3	270600.1	5.50	6.61	
59-2655	OZ	110.1	104.51	0.625	43	41.8	44.7	47.5	2422.4	17.96	22.74	A2
		5919.9	2654.60	15.875	1117	204.3	218.2	232.1	330803.5	5.48	6.93	
59-3106	OZ	110.3	122.28	0.438	56	35.6	38.9	42.3	3087.5	20.65	26.93	A3
		5928.4	3105.80	11.112	1422	173.7	190.1	206.5	421630.5	6.29	8.21	
59-2451	OZ	110.3	96.51	0.875	36	50.1	53.2	56.3	1985.0	16.92	20.65	A2
		5928.9	2451.40	22.225	914	244.7	259.8	274.9	271067.6	5.16	6.29	
60-2649	OZ	110.8	104.28	0.875	38	48.5	51.4	54.3	2105.7	17.18	21.17	A1
		5958.4	2648.60	22.225	965	237.0	251.0	264.9	287553.0	5.24	6.45	
60-2750	OZ	111.0	108.28	0.688	42	45.0	48.8	52.6	2330.7	18.82	23.27	A3
		5967.0	2750.20	17.462	1066	219.9	238.4	256.9	318282.3	5.74	7.09	
60-2649	OZ	111.5	104.28	0.812	38	49.0	52.9	56.9	2118.1	18.29	22.22	A3
		5993.4	2648.60	20.638	965	239.2	258.4	277.7	289242.6	5.58	6.77	
60-2699	OZ	111.8	106.28	0.75	40	47.1	51.0	54.9	2236.2	18.56	22.74	A3
		6011.2	2699.40	19.05	1016	230.1	249.0	267.9	305370.8	5.66	6.93	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
60-2903	OZ	111.9	114.28	0.562	48	40.7	44.3	47.9	2685.3	19.60	24.84	A3
		6015.5	2902.60	14.288	1219	198.9	216.5	234.0	366706.1	5.98	7.57	
60-2801	OZ	112.0	110.28	0.688	43	42.8	45.5	48.2	2464.6	17.96	22.74	A1
		6022.9	2801.00	17.462	1117	208.7	221.9	235.1	336557.3	5.48	6.93	
60-2502	OZ	112.1	98.51	0.812	38	48.4	51.5	54.5	2129.4	17.18	21.17	A2
		6025.5	2502.20	20.638	965	236.4	251.2	266.0	290791.3	5.24	6.45	
60-2604	OZ	112.1	102.51	0.688	42	44.3	47.2	50.1	2353.6	17.70	22.22	A2
		6025.6	2603.80	17.462	1066	216.1	230.3	244.5	321403.3	5.40	6.77	
60-2959	OZ	112.3	116.51	0.438	56	34.4	37.0	39.6	3145.1	19.54	25.88	A2
		6038.9	2959.40	11.112	1422	168.2	180.7	193.1	429489.1	5.95	7.89	
60-3004	OZ	112.4	118.28	0.5	52	38.4	41.8	45.3	2923.1	20.13	25.88	A3
		6044.4	3004.20	12.7	1320	187.3	204.2	221.2	399174.5	6.13	7.89	
60-2699	OZ	112.4	106.28	0.812	40	46.9	49.7	52.5	2248.7	17.44	21.69	A1
		6045.0	2699.40	20.638	1016	228.7	242.4	256.1	307084.2	5.32	6.61	
60-3055	OZ	112.5	120.28	0.472	53	37.2	40.6	44.1	3037.5	20.39	26.41	A3
		6048.4	3055.00	12	1371	181.7	198.4	215.1	414798.7	6.21	8.05	
61-2553	OZ	112.7	100.51	0.75	40	46.5	49.4	52.4	2254.1	17.44	21.69	A2
		6059.3	2553.00	19.05	1016	226.9	241.4	255.9	307813.6	5.32	6.61	
61-2750	OZ	112.9	108.28	0.75	42	44.9	47.7	50.4	2370.1	17.70	22.22	A1
		6067.9	2750.20	19.05	1066	219.3	232.7	246.2	323659.7	5.40	6.77	
61-2953	OZ	113.1	116.28	0.562	50	38.4	40.9	43.5	2827.7	18.75	24.31	A1
		6081.1	2953.40	14.288	1270	187.4	199.9	212.4	386151.6	5.71	7.41	
61-2547	OZ	113.4	100.28	1	34	54.5	58.6	62.7	1928.4	17.77	21.17	A3
		6098.6	2547.00	25.4	863	266.2	286.2	306.2	263338.4	5.42	6.45	
61-2401	OZ	113.4	94.51	1	34	54.3	57.4	60.6	1928.6	16.66	20.12	A2
		6099.4	2400.60	25.4	863	264.9	280.3	295.7	263372.9	5.08	6.13	
61-2756	OZ	113.6	108.51	0.562	48	39.8	42.5	45.3	2725.8	18.49	23.79	A2
		6106.1	2756.20	14.288	1219	194.3	207.7	221.1	372226.6	5.64	7.25	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
61-3055	OZ	113.7	120.28	0.5	53	36.0	38.4	40.9	3070.5	19.27	25.36	A1
		6114.2	3055.00	12.7	1371	175.6	187.7	199.8	419309.3	5.87	7.73	
61-3106	OZ	113.8	122.28	0.472	56	34.8	37.3	39.7	3186.8	19.54	25.88	A1
		6119.0	3105.80	12	1422	170.1	182.0	193.9	435185.8	5.95	7.89	
61-2750	OZ	113.9	108.28	0.709	42	46.1	49.8	53.6	2392.4	18.82	23.27	A3
		6124.9	2750.20	18	1066	224.9	243.4	261.9	326701.6	5.74	7.09	
62-2858	OZ	114.4	112.51	0.5	52	37.3	40.0	42.6	2974.3	19.01	24.83	A2
		6150.2	2857.80	12.7	1320	182.2	195.1	208.0	406162.1	5.79	7.57	
62-2598	OZ	114.4	102.28	1	36	52.6	55.6	58.5	2059.9	16.92	20.65	A1
		6152.7	2597.80	25.4	914	257.1	271.3	285.5	281303.3	5.16	6.29	
62-2598	OZ	114.4	102.28	1	36	52.6	55.6	58.5	2059.9	16.92	20.65	A1
		6152.7	2597.80	25.4	914	257.1	271.3	285.5	281303.4	5.16	6.29	
62-2909	OZ	114.6	114.51	0.472	53	36.1	38.7	41.3	3093.5	19.27	25.36	A2
		6160.0	2908.60	12	1371	176.5	189.2	201.9	422450.7	5.87	7.73	
62-2604	OZ	115.2	102.51	0.709	42	45.3	48.3	51.2	2418.7	17.70	22.22	A2
		6192.3	2603.80	18	1066	221.4	235.6	249.8	330296.0	5.40	6.77	
63-2598	OZ	116.5	102.28	0.938	36	53.3	57.3	61.3	2096.6	18.03	21.70	A3
		6262.3	2597.80	23.812	914	260.2	279.8	299.4	286313.4	5.50	6.61	
63-2699	OZ	116.5	106.28	0.787	40	48.9	52.7	56.6	2330.6	18.56	22.74	A3
		6264.9	2699.40	20	1016	238.6	257.5	276.4	318257.4	5.66	6.93	
63-2451	OZ	117.1	96.51	0.938	36	53.0	56.1	59.1	2106.9	16.92	20.65	A2
		6293.1	2451.40	23.812	914	258.6	273.7	288.7	287719.3	5.16	6.29	
63-2903	OZ	117.3	114.28	0.625	48	41.1	43.7	46.3	2815.0	18.49	23.79	A1
		6306.1	2902.60	15.875	1219	200.5	213.2	226.0	384417.4	5.64	7.25	
63-2553	OZ	117.7	100.51	0.787	40	48.3	51.3	54.2	2353.8	17.44	21.69	A2
		6327.5	2553.00	20	1016	235.9	250.3	264.8	321439.1	5.32	6.61	
63-2649	OZ	117.9	104.28	0.938	38	51.3	54.2	57.0	2239.6	17.18	21.17	A1
		6337.2	2648.60	23.812	965	250.6	264.6	278.5	305831.4	5.24	6.45	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
63-2750	OZ	118.0	108.28	0.787	42	46.7	49.5	52.2	2477.9	17.70	22.22	A1
		6343.9	2750.20	20	1066	228.1	241.5	254.9	338385.6	5.40	6.77	
64-3106	OZ	118.3	122.28	0.472	56	37.6	41.0	44.3	3312.7	20.65	26.93	A3
		6360.7	3105.80	12	1422	183.6	200.0	216.4	452376.2	6.29	8.21	
64-2801	OZ	118.4	110.28	0.688	43	45.8	49.5	53.3	2604.1	19.08	23.79	A3
		6364.0	2801.00	17.462	1117	223.7	241.9	260.1	355618.4	5.82	7.25	
64-2953	OZ	118.4	116.28	0.562	50	41.3	44.8	48.3	2960.1	19.87	25.36	A3
		6365.8	2953.40	14.288	1270	201.6	218.8	236.1	404229.0	6.05	7.73	
64-3055	OZ	118.5	120.28	0.5	53	38.8	42.2	45.6	3198.5	20.39	26.41	A3
		6369.0	3055.00	12.7	1371	189.3	206.0	222.7	436785.6	6.21	8.05	
64-2649	OZ	118.6	104.28	0.875	38	51.8	55.7	59.7	2253.3	18.29	22.22	A3
		6376.1	2648.60	22.225	965	252.8	272.1	291.3	307710.9	5.58	6.77	
64-2502	OZ	119.6	98.51	0.875	38	51.4	54.4	57.4	2272.6	17.18	21.17	A2
		6430.6	2502.20	22.225	965	250.9	265.6	280.4	310340.1	5.24	6.45	
64-2750	OZ	119.6	108.28	0.75	42	48.0	51.8	55.6	2512.3	18.82	23.27	A3
		6431.8	2750.20	19.05	1066	234.6	253.1	271.6	343072.9	5.74	7.09	
64-2699	OZ	119.7	106.28	0.812	40	50.0	53.9	57.8	2393.6	18.56	22.74	A3
		6434.3	2699.40	20.638	1016	244.3	263.2	282.0	326862.6	5.66	6.93	
65-2655	OZ	120.1	104.51	0.688	43	45.1	48.0	50.8	2641.6	17.96	22.74	A2
		6455.6	2654.60	17.462	1117	220.2	234.2	248.1	360738.7	5.48	6.93	
65-3004	OZ	120.1	118.28	0.562	52	38.9	41.5	44.0	3122.1	19.01	24.83	A1
		6455.9	3004.20	14.288	1320	190.1	202.5	214.8	426346.4	5.79	7.57	
65-3106	OZ	120.1	122.28	0.5	56	36.4	38.9	41.3	3363.8	19.54	25.88	A1
		6458.9	3105.80	12.7	1422	177.9	189.8	201.7	459353.5	5.95	7.89	
65-2699	OZ	120.2	106.28	0.875	40	49.7	52.5	55.4	2404.6	17.44	21.69	A1
		6463.9	2699.40	22.225	1016	242.9	256.6	270.3	328367.0	5.32	6.61	
65-2807	OZ	120.6	110.51	0.562	50	40.4	43.1	45.8	3014.1	18.75	24.31	A2
		6482.0	2807.00	14.288	1270	197.1	210.3	223.5	411606.7	5.71	7.41	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
65-2959	OZ	120.8	116.51	0.472	56	36.6	39.1	41.7	3381.4	19.54	25.88	A2
		6492.6	2959.40	12	1422	178.5	191.0	203.5	461755.8	5.95	7.89	
65-2909	OZ	120.8	114.51	0.5	53	37.8	40.4	43.0	3262.7	19.27	25.36	A2
		6496.7	2908.60	12.7	1371	184.5	197.2	209.9	445544.2	5.87	7.73	
65-2553	OZ	121.0	100.51	0.812	40	49.5	52.5	55.5	2420.5	17.44	21.69	A2
		6506.6	2553.00	20.638	1016	241.9	256.3	270.8	330537.8	5.32	6.61	
65-2604	OZ	121.2	102.51	0.75	42	47.4	50.4	53.3	2545.3	17.70	22.22	A2
		6516.5	2603.80	19.05	1066	231.6	245.8	260.0	347587.8	5.40	6.77	
65-2801	OZ	121.4	110.28	0.75	43	45.8	48.6	51.3	2670.5	17.96	22.74	A1
		6526.1	2801.00	19.05	1117	223.8	237.0	250.2	364679.0	5.48	6.93	
65-2750	OZ	121.4	108.28	0.812	42	47.9	50.7	53.4	2550.0	17.70	22.22	A1
		6528.3	2750.20	20.638	1066	233.9	247.4	260.8	348221.6	5.40	6.77	
66-2598	OZ	122.8	102.28	1	36	56.0	60.0	64.0	2210.4	18.03	21.70	A3
		6602.3	2597.80	25.4	914	273.2	292.8	312.4	301855.3	5.50	6.61	
66-2598	OZ	122.8	102.28	1	36	56.0	60.0	64.0	2210.4	18.03	21.70	A3
		6602.3	2597.80	25.4	914	273.2	292.8	312.4	301855.4	5.50	6.61	
66-2903	OZ	122.9	114.28	0.625	48	44.0	47.6	51.2	2949.7	19.60	24.84	A3
		6607.8	2902.60	15.875	1219	215.0	232.5	250.1	402811.3	5.98	7.57	
67-2451	OZ	123.8	96.51	1	36	55.8	58.9	62.0	2227.5	16.92	20.65	A2
		6653.3	2451.40	25.4	914	272.4	287.5	302.6	304189.4	5.16	6.29	
67-2451	OZ	123.8	96.51	1	36	55.8	58.9	62.0	2227.5	16.92	20.65	A2
		6653.3	2451.40	25.4	914	272.4	287.5	302.6	304189.4	5.16	6.29	
67-3106	OZ	124.6	122.28	0.5	56	39.2	42.6	45.9	3489.7	20.65	26.93	A3
		6700.6	3105.80	12.7	1422	191.4	207.8	224.2	476543.9	6.29	8.21	
67-2750	OZ	124.8	108.28	0.787	42	49.8	53.6	57.4	2620.1	18.82	23.27	A3
		6707.9	2750.20	20	1066	243.3	261.8	280.4	357798.7	5.74	7.09	
67-2649	OZ	124.8	104.28	1	38	54.1	57.0	59.8	2372.0	17.18	21.17	A1
		6712.0	2648.60	25.4	965	264.1	278.1	292.0	323920.9	5.24	6.45	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
67-2953	OZ	124.9	116.28	0.625	50	41.7	44.3	46.9	3122.3	18.75	24.31	A1
		6714.7	2953.40	15.875	1270	203.8	216.3	228.8	426383.2	5.71	7.41	
67-3004	OZ	125.1	118.28	0.562	52	41.8	45.3	48.8	3252.2	20.13	25.88	A3
		6725.0	3004.20	14.288	1320	204.1	221.1	238.0	444118.2	6.13	7.89	
67-2756	OZ	125.2	108.51	0.625	48	43.2	46.0	48.7	3004.2	18.49	23.79	A2
		6729.8	2756.20	15.875	1219	211.2	224.6	238.0	410249.6	5.64	7.25	
68-2649	OZ	125.6	104.28	0.938	38	54.6	58.5	62.4	2387.2	18.29	22.22	A3
		6754.9	2648.60	23.812	965	266.4	285.7	304.9	325989.2	5.58	6.77	
68-2604	OZ	126.6	102.51	0.787	42	49.3	52.2	55.2	2659.2	17.70	22.22	A2
		6808.1	2603.80	20	1066	240.9	255.1	269.3	363141.6	5.40	6.77	
68-2502	OZ	127.1	98.51	0.938	38	54.3	57.4	60.4	2414.3	17.18	21.17	A2
		6831.5	2502.20	23.812	965	265.3	280.0	294.8	329687.9	5.24	6.45	
68-3055	OZ	127.2	120.28	0.562	53	39.5	42.0	44.5	3433.8	19.27	25.36	A1
		6837.5	3055.00	14.288	1371	192.8	204.9	217.0	468916.5	5.87	7.73	
68-2959	OZ	127.4	116.51	0.5	56	38.2	40.8	43.3	3567.1	19.54	25.88	A2
		6849.3	2959.40	12.7	1422	186.7	199.2	211.6	487119.0	5.95	7.89	
69-2699	OZ	127.5	106.28	0.875	40	52.9	56.8	60.7	2549.4	18.56	22.74	A3
		6853.3	2699.40	22.225	1016	258.4	277.3	296.1	348145.5	5.66	6.93	
69-2858	OZ	127.7	112.51	0.562	52	40.9	43.6	46.2	3320.2	19.01	24.83	A2
		6865.7	2857.80	14.288	1320	199.9	212.8	225.8	453408.2	5.79	7.57	
69-2801	OZ	127.7	110.28	0.75	43	48.9	52.6	56.4	2810.1	19.08	23.79	A3
		6867.2	2801.00	19.05	1117	238.8	257.0	275.2	383740.1	5.82	7.25	
69-2699	OZ	127.9	106.28	0.938	40	52.6	55.4	58.2	2558.9	17.44	21.69	A1
		6878.8	2699.40	23.812	1016	256.9	270.6	284.3	349442.5	5.32	6.61	
69-2750	OZ	128.2	108.28	0.812	42	51.0	54.8	58.6	2692.1	18.82	23.27	A3
		6892.3	2750.20	20.638	1066	249.2	267.7	286.2	367634.7	5.74	7.09	
69-2903	OZ	128.2	114.28	0.688	48	44.3	47.0	49.6	3077.3	18.49	23.79	A1
		6893.6	2902.60	17.462	1219	216.5	229.2	242.0	420233.6	5.64	7.25	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
69-2553	OZ	129.3	100.51	0.875	40	52.6	55.6	58.5	2585.3	17.44	21.69	A2
		6949.6	2553.00	22.225	1016	256.8	271.3	285.7	353041.1	5.32	6.61	
70-2750	OZ	129.9	108.28	0.875	42	50.9	53.6	56.4	2728.2	17.70	22.22	A1
		6984.6	2750.20	22.225	1066	248.5	261.9	275.4	372556.5	5.40	6.77	
70-2655	OZ	130.0	104.51	0.75	43	48.4	51.2	54.1	2858.9	17.96	22.74	A2
		6986.6	2654.60	19.05	1117	236.2	250.1	264.0	390411.4	5.48	6.93	
70-2953	OZ	130.2	116.28	0.625	50	44.6	48.2	51.7	3254.7	19.87	25.36	A3
		6999.4	2953.40	15.875	1270	218.0	235.2	252.5	444460.6	6.05	7.73	
70-2604	OZ	130.3	102.51	0.812	42	50.6	53.5	56.4	2735.3	17.70	22.22	A2
		7002.8	2603.80	20.638	1066	247.1	261.3	275.5	373530.6	5.40	6.77	
70-2801	OZ	130.7	110.28	0.812	43	48.9	51.6	54.3	2874.6	17.96	22.74	A1
		7024.9	2801.00	20.638	1117	238.9	252.1	265.3	392552.7	5.48	6.93	
71-3055	OZ	131.9	120.28	0.562	53	42.3	45.7	49.1	3561.8	20.39	26.41	A3
		7092.3	3055.00	14.288	1371	206.6	223.3	239.9	486392.8	6.21	8.05	
71-2649	OZ	132.6	104.28	1	38	57.3	61.3	65.2	2519.6	18.29	22.22	A3
		7129.7	2648.60	25.4	965	280.0	299.2	318.4	344078.8	5.58	6.77	
71-3004	OZ	132.6	118.28	0.625	52	42.4	44.9	47.4	3448.7	19.01	24.83	A1
		7131.4	3004.20	15.875	1320	207.0	219.3	231.6	470957.3	5.79	7.57	
71-2807	OZ	133.0	110.51	0.625	50	43.9	46.6	49.3	3324.1	18.75	24.31	A2
		7148.6	2807.00	15.875	1270	214.4	227.6	240.8	453936.6	5.71	7.41	
72-3207	OZ	133.3	126.28	0.5	60	37.3	39.7	42.0	3997.8	20.06	26.93	A1
		7164.6	3207.40	12.7	1524	182.2	193.7	205.2	545940.6	6.11	8.21	
72-2903	OZ	133.8	114.28	0.688	48	47.3	50.9	54.5	3212.0	19.60	24.84	A3
		7195.3	2902.60	17.462	1219	231.0	248.5	266.1	438627.4	5.98	7.57	
72-3106	OZ	134.4	122.28	0.562	56	40.0	42.5	44.9	3763.1	19.54	25.88	A1
		7225.7	3105.80	14.288	1422	195.5	207.4	219.3	513890.1	5.95	7.89	
72-2502	OZ	134.4	98.51	1	38	57.3	60.3	63.3	2554.5	17.18	21.17	A2
		7228.3	2502.20	25.4	965	279.6	294.4	309.1	348835.8	5.24	6.45	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
73-2909	OZ	135.0	114.51	0.562	53	41.5	44.1	46.7	3644.2	19.27	25.36	A2
		7256.5	2908.60	14.288	1371	202.6	215.3	228.0	497648.4	5.87	7.73	
73-2699	OZ	135.2	106.28	0.938	40	55.8	59.7	63.5	2703.7	18.56	22.74	A3
		7268.1	2699.40	23.812	1016	272.5	291.3	310.2	369220.9	5.66	6.93	
73-2699	OZ	135.6	106.28	1	40	55.5	58.3	61.1	2711.7	17.44	21.69	A1
		7289.6	2699.40	25.4	1016	271.0	284.6	298.3	370311.2	5.32	6.61	
73-2699	OZ	135.6	106.28	1	40	55.5	58.3	61.1	2711.7	17.44	21.69	A1
		7289.6	2699.40	25.4	1016	271.0	284.6	298.3	370311.4	5.32	6.61	
73-2953	OZ	136.6	116.28	0.688	50	45.1	47.7	50.2	3414.7	18.75	24.31	A1
		7343.4	2953.40	17.462	1270	220.2	232.7	245.2	466303.2	5.71	7.41	
73-2750	OZ	136.7	108.28	0.875	42	54.0	57.8	61.6	2870.3	18.82	23.27	A3
		7348.5	2750.20	22.225	1066	263.8	282.3	300.8	391969.7	5.74	7.09	
73-2756	OZ	136.7	108.51	0.688	48	46.7	49.4	52.2	3280.4	18.49	23.79	A2
		7348.6	2756.20	17.462	1219	228.0	241.4	254.8	447968.2	5.64	7.25	
74-2801	OZ	137.0	110.28	0.812	43	52.0	55.7	59.5	3014.2	19.08	23.79	A3
		7366.0	2801.00	20.638	1117	253.9	272.1	290.3	411613.7	5.82	7.25	
74-3207	OZ	137.3	126.28	0.5	60	40.0	43.2	46.5	4119.7	21.17	27.98	A3
		7383.0	3207.40	12.7	1524	195.2	211.1	227.0	562586.5	6.45	8.53	
74-2553	OZ	137.4	100.51	0.938	40	55.6	58.6	61.6	2748.4	17.44	21.69	A2
		7388.3	2553.00	23.812	1016	271.7	286.1	300.6	375325.1	5.32	6.61	
74-3004	OZ	137.6	118.28	0.625	52	45.3	48.7	52.2	3578.9	20.13	25.88	A3
		7400.5	3004.20	15.875	1320	220.9	237.9	254.8	488729.1	6.13	7.89	
74-2750	OZ	138.3	108.28	0.938	42	53.9	56.6	59.4	2904.7	17.70	22.22	A1
		7436.6	2750.20	23.812	1066	263.0	276.5	289.9	396665.7	5.40	6.77	
75-3106	OZ	138.9	122.28	0.562	56	42.8	46.2	49.5	3889.0	20.65	26.93	A3
		7467.4	3105.80	14.288	1422	209.0	225.4	241.8	531080.6	6.29	8.21	
75-2903	OZ	139.1	114.28	0.75	48	47.6	50.2	52.8	3337.5	18.49	23.79	A1
		7476.4	2902.60	19.05	1219	232.5	245.2	257.9	455763.8	5.64	7.25	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
75-2604	OZ	139.2	102.51	0.875	42	53.8	56.7	59.6	2923.5	17.70	22.22	A2
		7484.7	2603.80	22.225	1066	262.5	276.7	290.9	399233.8	5.40	6.77	
75-2655	OZ	139.7	104.51	0.812	43	51.6	54.5	57.3	3074.3	17.96	22.74	A2
		7512.9	2654.60	20.638	1117	252.1	266.0	279.9	419822.2	5.48	6.93	
75-2801	OZ	139.9	110.28	0.875	43	52.0	54.7	57.4	3076.9	17.96	22.74	A1
		7519.4	2801.00	22.225	1117	253.9	267.1	280.3	420182.1	5.48	6.93	
76-3055	OZ	140.5	120.28	0.625	53	43.0	45.5	48.0	3794.5	19.27	25.36	A1
		7555.8	3055.00	15.875	1371	210.0	222.1	234.2	518173.5	5.87	7.73	
76-3061	OZ	140.8	120.51	0.5	60	39.1	41.6	44.0	4224.7	20.06	26.93	A2
		7571.2	3061.00	12.7	1524	190.9	202.9	215.0	576925.8	6.11	8.21	
76-2858	OZ	140.9	112.51	0.625	52	44.6	47.2	49.9	3663.7	19.01	24.83	A2
		7575.8	2857.80	15.875	1320	217.6	230.5	243.4	500304.4	5.79	7.57	
76-2953	OZ	141.9	116.28	0.688	50	48.0	51.5	55.1	3547.0	19.87	25.36	A3
		7628.0	2953.40	17.462	1270	234.4	251.6	268.9	484380.7	6.05	7.73	
77-2959	OZ	142.4	116.51	0.562	56	42.0	44.6	47.1	3986.2	19.54	25.88	A2
		7654.0	2959.40	14.288	1422	205.1	217.6	230.1	544353.6	5.95	7.89	
77-2699	OZ	142.8	106.28	1	40	58.7	62.5	66.4	2856.6	18.56	22.74	A3
		7678.9	2699.40	25.4	1016	286.5	305.4	324.2	390089.6	5.66	6.93	
77-2699	OZ	142.8	106.28	1	40	58.7	62.5	66.4	2856.6	18.56	22.74	A3
		7678.9	2699.40	25.4	1016	286.5	305.4	324.2	390089.8	5.66	6.93	
78-2903	OZ	144.7	114.28	0.75	48	50.6	54.2	57.8	3472.2	19.60	24.84	A3
		7778.2	2902.60	19.05	1219	246.9	264.5	282.0	474157.7	5.98	7.57	
78-2750	OZ	145.1	108.28	0.938	42	57.0	60.8	64.6	3046.9	18.82	23.27	A3
		7800.5	2750.20	23.812	1066	278.3	296.8	315.3	416078.8	5.74	7.09	
78-3004	OZ	145.1	118.28	0.688	52	45.8	48.3	50.9	3773.0	19.01	24.83	A1
		7802.0	3004.20	17.462	1320	223.7	236.1	248.4	515242.0	5.79	7.57	
78-2807	OZ	145.3	110.51	0.688	50	47.5	50.1	52.8	3631.7	18.75	24.31	A2
		7810.1	2807.00	17.462	1270	231.7	244.8	258.0	495938.7	5.71	7.41	

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						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
78-3055	OZ	145.3	120.28	0.625	53	45.8	49.2	52.7	3922.5	20.39	26.41	A3
		7810.6	3055.00	15.875	1371	223.8	240.4	257.1	535649.8	6.21	8.05	
78-2553	OZ	145.5	100.51	1	40	58.7	61.6	64.6	2910.0	17.44	21.69	A2
		7822.6	2553.00	25.4	1016	286.5	301.0	315.4	397390.5	5.32	6.61	
78-2553	OZ	145.5	100.51	1	40	58.7	61.6	64.6	2910.0	17.44	21.69	A2
		7822.7	2553.00	25.4	1016	286.5	301.0	315.4	397390.7	5.32	6.61	
79-2801	OZ	146.2	110.28	0.875	43	55.1	58.8	62.5	3216.5	19.08	23.79	A3
		7860.5	2801.00	22.225	1117	268.9	287.1	305.3	439243.1	5.82	7.25	
79-2750	OZ	146.6	108.28	1	42	56.8	59.6	62.3	3079.6	17.70	22.22	A1
		7884.3	2750.20	25.4	1066	277.5	291.0	304.4	420551.0	5.40	6.77	
79-2750	OZ	146.6	108.28	1	42	56.8	59.6	62.3	3079.6	17.70	22.22	A1
		7884.4	2750.20	25.4	1066	277.5	291.0	304.4	420551.2	5.40	6.77	
80-2604	OZ	148.1	102.51	0.938	42	56.9	59.8	62.7	3110.0	17.70	22.22	A2
		7962.1	2603.80	23.812	1066	277.8	292.0	306.2	424698.5	5.40	6.77	
80-2756	OZ	148.1	108.51	0.75	48	50.1	52.9	55.6	3554.4	18.49	23.79	A2
		7962.4	2756.20	19.05	1219	244.8	258.2	271.6	485385.7	5.64	7.25	
80-2953	OZ	148.2	116.28	0.75	50	48.4	51.0	53.6	3704.8	18.75	24.31	A1
		7967.2	2953.40	19.05	1270	236.5	249.1	261.6	505918.6	5.71	7.41	
80-3106	OZ	148.6	122.28	0.625	56	43.6	46.1	48.5	4159.8	19.54	25.88	A1
		7987.3	3105.80	15.875	1422	213.0	224.9	236.8	568059.8	5.95	7.89	
80-2801	OZ	149.0	110.28	0.938	43	55.1	57.8	60.5	3277.5	17.96	22.74	A1
		8009.5	2801.00	23.812	1117	268.9	282.1	295.3	447568.7	5.48	6.93	
80-2909	OZ	149.0	114.51	0.625	53	45.2	47.8	50.4	4023.1	19.27	25.36	A2
		8010.9	2908.60	15.875	1371	220.6	233.3	246.0	549384.6	5.87	7.73	
80-3207	OZ	149.2	126.28	0.562	60	41.1	43.4	45.8	4475.3	20.06	26.93	A1
		8020.3	3207.40	14.288	1524	200.4	212.0	223.5	611146.1	6.11	8.21	
80-2655	OZ	149.4	104.51	0.875	43	54.9	57.7	60.6	3287.8	17.96	22.74	A2
		8034.6	2654.60	22.225	1117	267.9	281.9	295.8	448975.4	5.48	6.93	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
80-2763	OZ	149.5	108.78	1	42	57.2	59.9	62.6	3176.1	17.77	22.35	A1
		8035.6	2762.90	25.4	1079	279.1	292.5	305.9	433720.8	5.42	6.81	
81-2903	OZ	149.8	114.28	0.812	48	50.9	53.5	56.1	3595.6	18.49	23.79	A1
		8054.6	2902.60	20.638	1219	248.4	261.1	273.8	491008.1	5.64	7.25	
81-3004	OZ	150.1	118.28	0.688	52	48.7	52.2	55.6	3903.2	20.13	25.88	A3
		8071.1	3004.20	17.462	1320	237.7	254.7	271.6	533013.8	6.13	7.89	
82-3106	OZ	153.1	122.28	0.625	56	46.4	49.8	53.1	4285.7	20.65	26.93	A3
		8229.1	3105.80	15.875	1422	226.5	242.9	259.3	585250.2	6.29	8.21	
82-3207	OZ	153.2	126.28	0.562	60	43.7	47.0	50.2	4597.2	21.17	27.98	A3
		8238.7	3207.40	14.288	1524	213.5	229.4	245.3	627792.0	6.45	8.53	
82-2750	OZ	153.4	108.28	1	42	60.0	63.8	67.6	3221.8	18.82	23.27	A3
		8248.3	2750.20	25.4	1066	292.8	311.3	329.8	439964.1	5.74	7.09	
82-2750	OZ	153.4	108.28	1	42	60.0	63.8	67.6	3221.8	18.82	23.27	A3
		8248.3	2750.20	25.4	1066	292.8	311.3	329.8	439964.4	5.74	7.09	
83-2953	OZ	153.5	116.28	0.75	50	51.4	54.9	58.4	3837.1	19.87	25.36	A3
		8251.9	2953.40	19.05	1270	250.7	268.0	285.2	523996.1	6.05	7.73	
83-3055	OZ	153.8	120.28	0.688	53	46.5	49.0	51.5	4152.7	19.27	25.36	A1
		8268.9	3055.00	17.462	1371	227.2	239.3	251.4	567083.5	5.87	7.73	
83-2858	OZ	154.0	112.51	0.688	52	48.2	50.8	53.5	4004.6	19.01	24.83	A2
		8280.7	2857.80	17.462	1320	235.2	248.1	261.1	546857.7	5.79	7.57	
84-2801	OZ	155.3	110.28	0.938	43	58.1	61.9	65.6	3417.1	19.08	23.79	A3
		8350.6	2801.00	23.812	1117	283.9	302.1	320.3	466629.8	5.82	7.25	
84-2903	OZ	155.4	114.28	0.812	48	53.8	57.4	61.0	3730.3	19.60	24.84	A3
		8356.3	2902.60	20.638	1219	262.8	280.4	297.9	509401.9	5.98	7.57	
84-2763	OZ	156.1	108.78	1	42	60.3	64.1	67.8	3317.6	18.88	23.40	A3
		8393.6	2762.90	25.4	1079	294.3	312.7	331.2	453044.7	5.76	7.13	
84-2604	OZ	156.9	102.51	1	42	60.0	62.9	65.9	3294.7	17.70	22.22	A2
		8435.1	2603.80	25.4	1066	293.1	307.3	321.5	449926.8	5.40	6.77	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
84-2604	OZ	156.9	102.51	1	42	60.0	62.9	65.9	3294.7	17.70	22.22	A2
		8435.1	2603.80	25.4	1066	293.1	307.3	321.5	449927.0	5.40	6.77	
85-2959	OZ	157.2	116.51	0.625	56	45.8	48.3	50.9	4402.5	19.54	25.88	A2
		8453.4	2959.40	15.875	1422	223.5	236.0	248.5	601202.9	5.95	7.89	
85-2807	OZ	157.5	110.51	0.75	50	51.0	53.7	56.4	3936.9	18.75	24.31	A2
		8466.5	2807.00	19.05	1270	248.9	262.0	275.2	537620.2	5.71	7.41	
85-3004	OZ	157.5	118.28	0.75	52	49.3	51.8	54.3	4094.9	19.01	24.83	A1
		8467.6	3004.20	19.05	1320	240.5	252.8	265.1	559200.5	5.79	7.57	
85-3061	OZ	157.5	120.51	0.562	60	43.0	45.5	48.0	4725.1	20.06	26.93	A2
		8467.8	3061.00	14.288	1524	210.0	222.1	234.2	645249.9	6.11	8.21	
85-2801	OZ	158.0	110.28	1	43	58.1	60.8	63.5	3476.2	17.96	22.74	A1
		8495.2	2801.00	25.4	1117	283.8	297.0	310.2	474709.0	5.48	6.93	
85-3055	OZ	158.5	120.28	0.688	53	49.3	52.8	56.2	4280.6	20.39	26.41	A3
		8523.8	3055.00	17.462	1371	240.9	257.6	274.3	584559.7	6.21	8.05	
86-2655	OZ	159.1	104.51	0.938	43	58.1	61.0	63.8	3499.4	17.96	22.74	A2
		8551.8	2654.60	23.812	1117	283.7	297.7	311.6	477872.4	5.48	6.93	
86-2756	OZ	159.4	108.51	0.812	48	53.6	56.3	59.1	3826.2	18.49	23.79	A2
		8571.2	2756.20	20.638	1219	261.6	275.0	288.4	522502.0	5.64	7.25	
86-2953	OZ	159.7	116.28	0.812	50	51.8	54.4	56.9	3992.6	18.75	24.31	A1
		8586.3	2953.40	20.638	1270	252.8	265.4	277.9	545229.2	5.71	7.41	
86-2617	OZ	159.8	103.01	1	42	60.4	63.3	66.2	3395.5	17.77	22.35	A2
		8590.8	2616.50	25.4	1079	294.7	308.9	323.0	463690.8	5.42	6.81	
86-2903	OZ	160.5	114.28	0.875	48	54.1	56.7	59.3	3851.6	18.49	23.79	A1
		8628.1	2902.60	22.225	1219	264.2	277.0	289.7	525969.8	5.64	7.25	
87-3004	OZ	162.5	118.28	0.75	52	52.1	55.6	59.1	4225.1	20.13	25.88	A3
		8736.7	3004.20	19.05	1320	254.4	271.4	288.4	576972.2	6.13	7.89	
87-3106	OZ	162.6	122.28	0.688	56	47.2	49.7	52.1	4553.8	19.54	25.88	A1
		8743.8	3105.80	17.462	1422	230.5	242.4	254.3	621855.9	5.95	7.89	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
88-2909	OZ	162.9	114.51	0.688	53	48.9	51.5	54.1	4399.2	19.27	25.36	A2
		8759.9	2908.60	17.462	1371	238.6	251.3	264.0	600756.4	5.87	7.73	
88-2801	OZ	164.4	110.28	1	43	61.2	64.9	68.7	3615.8	19.08	23.79	A3
		8836.3	2801.00	25.4	1117	298.8	317.0	335.2	493770.1	5.82	7.25	
89-3207	OZ	165.0	126.28	0.625	60	44.8	47.1	49.5	4949.8	20.06	26.93	A1
		8870.6	3207.40	15.875	1524	218.7	230.2	241.7	675940.0	6.11	8.21	
89-2953	OZ	165.0	116.28	0.812	50	54.7	58.2	61.8	4125.0	19.87	25.36	A3
		8871.0	2953.40	20.638	1270	267.1	284.3	301.6	563306.7	6.05	7.73	
89-2928	OZ	165.6	115.28	0.875	48	54.6	57.2	59.8	4057.4	18.62	24.05	A1
		8903.6	2928.00	22.225	1244	266.7	279.3	291.9	554070.3	5.68	7.33	
89-2903	OZ	166.1	114.28	0.875	48	57.1	60.7	64.3	3986.3	19.60	24.84	A3
		8929.9	2902.60	22.225	1219	278.7	296.2	313.8	544363.7	5.98	7.57	
90-3055	OZ	167.0	120.28	0.75	53	50.0	52.5	55.0	4508.3	19.27	25.36	A1
		8977.0	3055.00	19.05	1371	244.3	256.4	268.5	615643.2	5.87	7.73	
90-2858	OZ	167.0	112.51	0.75	52	51.8	54.4	57.1	4342.9	19.01	24.83	A2
		8980.4	2857.80	19.05	1320	252.8	265.7	278.7	593068.1	5.79	7.57	
90-3106	OZ	167.1	122.28	0.688	56	50.0	53.3	56.7	4679.6	20.65	26.93	A3
		8985.5	3105.80	17.462	1422	244.0	260.4	276.8	639046.3	6.29	8.21	
91-2655	OZ	168.6	104.51	1	43	61.3	64.2	67.0	3709.1	17.96	22.74	A2
		9064.2	2654.60	25.4	1117	299.5	313.4	327.3	506509.5	5.48	6.93	
91-3207	OZ	169.1	126.28	0.625	60	47.5	50.7	54.0	5071.7	21.17	27.98	A3
		9089.1	3207.40	15.875	1524	231.7	247.6	263.5	692585.9	6.45	8.53	
91-2807	OZ	169.6	110.51	0.812	50	54.5	57.2	59.9	4239.8	18.75	24.31	A2
		9117.8	2807.00	20.638	1270	266.0	279.2	292.4	578981.1	5.71	7.41	
91-3004	OZ	169.8	118.28	0.812	52	52.7	55.2	57.7	4414.5	19.01	24.83	A1
		9128.3	3004.20	20.638	1320	257.2	269.5	281.8	602832.7	5.79	7.57	
92-2756	OZ	170.7	108.51	0.875	48	57.0	59.7	62.5	4095.8	18.49	23.79	A2
		9175.2	2756.20	22.225	1219	278.3	291.7	305.1	559320.8	5.64	7.25	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
92-2928	OZ	171.1	115.28	0.875	48	57.6	61.1	64.7	4190.9	19.73	25.10	A3
		9196.6	2928.00	22.225	1244	281.0	298.4	315.8	572304.6	6.02	7.65	
92-2903	OZ	171.1	114.28	0.938	48	57.4	60.0	62.6	4105.5	18.49	23.79	A1
		9197.0	2902.60	23.812	1219	280.1	292.8	305.5	560649.1	5.64	7.25	
92-2953	OZ	171.1	116.28	0.875	50	55.1	57.7	60.2	4278.3	18.75	24.31	A1
		9200.6	2953.40	22.225	1270	269.1	281.6	294.1	584235.1	5.71	7.41	
92-3055	OZ	171.7	120.28	0.75	53	52.8	56.3	59.7	4636.2	20.39	26.41	A3
		9231.8	3055.00	19.05	1371	258.0	274.7	291.4	633119.5	6.21	8.05	
92-2959	OZ	172.0	116.51	0.688	56	49.5	52.1	54.7	4815.9	19.54	25.88	A2
		9247.2	2959.40	17.462	1422	241.9	254.4	266.9	657660.3	5.95	7.89	
94-3061	OZ	174.1	120.51	0.625	60	46.9	49.4	51.9	5222.2	20.06	26.93	A2
		9358.8	3061.00	15.875	1524	229.1	241.2	253.3	713142.8	6.11	8.21	
94-3004	OZ	174.8	118.28	0.812	52	55.5	59.0	62.5	4544.6	20.13	25.88	A3
		9397.4	3004.20	20.638	1320	271.1	288.1	305.1	620604.5	6.13	7.89	
95-2782	OZ	175.9	109.51	0.875	48	57.5	60.2	62.9	4310.2	18.62	24.05	A2
		9458.4	2781.60	22.225	1244	280.7	294.0	307.3	588595.7	5.68	7.33	
95-2979	OZ	176.3	117.28	0.875	51	55.6	58.1	60.7	4496.8	18.88	24.57	A1
		9481.0	2978.80	22.225	1295	271.5	283.9	296.3	614084.1	5.75	7.49	
95-2953	OZ	176.4	116.28	0.875	50	58.0	61.6	65.1	4410.6	19.87	25.36	A3
		9485.2	2953.40	22.225	1270	283.3	300.6	317.8	602312.6	6.05	7.73	
95-3106	OZ	176.6	122.28	0.75	56	50.8	53.2	55.7	4945.0	19.54	25.88	A1
		9495.1	3105.80	19.05	1422	248.0	259.9	271.8	675288.2	5.95	7.89	
95-2903	OZ	176.7	114.28	0.938	48	60.3	63.9	67.5	4240.2	19.60	24.84	A3
		9498.7	2902.60	23.812	1219	294.5	312.1	329.6	579042.9	5.98	7.57	
95-2909	OZ	176.8	114.51	0.75	53	52.6	55.2	57.8	4772.7	19.27	25.36	A2
		9503.6	2908.60	19.05	1371	256.6	269.3	282.0	651760.3	5.87	7.73	
97-2858	OZ	180.0	112.51	0.812	52	55.4	58.0	60.7	4678.8	19.01	24.83	A2
		9675.0	2857.80	20.638	1320	270.4	283.3	296.2	638935.5	5.79	7.57	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
97-3055	OZ	180.0	120.28	0.812	53	53.5	56.0	58.5	4861.3	19.27	25.36	A1
		9680.1	3055.00	20.638	1371	261.4	273.5	285.6	663859.2	5.87	7.73	
97-3207	OZ	180.7	126.28	0.688	60	48.5	50.9	53.2	5421.3	20.06	26.93	A1
		9715.5	3207.40	17.462	1524	236.9	248.4	259.9	740322.4	6.11	8.21	
97-3106	OZ	181.1	122.28	0.75	56	53.6	56.9	60.3	5070.9	20.65	26.93	A3
		9736.8	3105.80	19.05	1422	261.5	277.9	294.3	692478.6	6.29	8.21	
98-2979	OZ	181.5	117.28	0.875	51	58.5	62.0	65.5	4628.1	20.00	25.62	A3
		9757.7	2978.80	22.225	1295	285.6	302.7	319.8	632007.4	6.09	7.81	
98-2903	OZ	181.6	114.28	1	48	60.6	63.2	65.8	4357.4	18.49	23.79	A1
		9761.3	2902.60	25.4	1219	295.8	308.6	321.3	595045.8	5.64	7.25	
98-2903	OZ	181.6	114.28	1	48	60.6	63.2	65.8	4357.4	18.49	23.79	A1
		9761.3	2902.60	25.4	1219	295.8	308.6	321.3	595047.1	5.64	7.25	
98-2807	OZ	181.6	110.51	0.875	50	58.0	60.7	63.4	4540.3	18.75	24.31	A2
		9764.1	2807.00	22.225	1270	283.2	296.3	309.5	620021.4	5.71	7.41	
98-2756	OZ	181.8	108.51	0.938	48	60.4	63.2	65.9	4363.3	18.49	23.79	A2
		9774.3	2756.20	23.812	1219	294.9	308.3	321.8	595842.1	5.64	7.25	
98-3004	OZ	182.0	118.28	0.875	52	56.1	58.6	61.1	4731.6	19.01	24.83	A1
		9784.1	3004.20	22.225	1320	273.8	286.1	298.4	646138.7	5.79	7.57	
98-2953	OZ	182.5	116.28	0.938	50	58.4	61.0	63.6	4561.7	18.75	24.31	A1
		9810.1	2953.40	23.812	1270	285.3	297.9	310.4	622939.7	5.71	7.41	
99-3207	OZ	184.8	126.28	0.688	60	51.2	54.4	57.7	5543.2	21.17	27.98	A3
		9934.0	3207.40	17.462	1524	249.9	265.8	281.7	756968.3	6.45	8.53	
99-3055	OZ	184.8	120.28	0.812	53	56.3	59.8	63.2	4989.3	20.39	26.41	A3
		9934.9	3055.00	20.638	1371	275.1	291.8	308.4	681335.5	6.21	8.05	
100-2959	OZ	186.7	116.51	0.75	56	53.3	55.9	58.4	5226.6	19.54	25.88	A2
		10035.7	2959.40	19.05	1422	260.3	272.7	285.2	713735.9	5.95	7.89	
101-2832	OZ	187.0	111.51	0.875	51	58.5	61.2	63.8	4767.9	18.88	24.57	A2
		10052.4	2832.40	22.225	1295	285.5	298.6	311.6	651092.2	5.75	7.49	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
101-3004	OZ	187.0	118.28	0.875	52	58.9	62.4	65.9	4861.7	20.13	25.88	A3
		10053.2	3004.20	22.225	1320	287.8	304.8	321.7	663910.5	6.13	7.89	
101-2903	OZ	187.2	114.28	1	48	63.6	67.1	70.7	4492.1	19.60	24.84	A3
		10063.0	2902.60	25.4	1219	310.3	327.8	345.4	613439.7	5.98	7.57	
101-2903	OZ	187.2	114.28	1	48	63.6	67.1	70.7	4492.1	19.60	24.84	A3
		10063.0	2902.60	25.4	1219	310.3	327.8	345.4	613440.9	5.98	7.57	
101-3030	OZ	187.3	119.28	0.875	53	56.6	59.1	61.6	4963.1	19.14	25.10	A1
		10069.2	3029.60	22.225	1346	276.1	288.3	300.5	677758.1	5.83	7.65	
101-2928	OZ	187.6	115.28	1	48	61.2	63.8	66.4	4596.4	18.62	24.05	A1
		10086.4	2928.00	25.4	1244	298.7	311.3	324.0	627678.2	5.68	7.33	
101-2953	OZ	187.8	116.28	0.938	50	61.4	64.9	68.4	4694.1	19.87	25.36	A3
		10094.8	2953.40	23.812	1270	299.5	316.8	334.0	641017.1	6.05	7.73	
102-3106	OZ	190.5	122.28	0.812	56	54.4	56.8	59.2	5333.6	19.54	25.88	A1
		10241.1	3105.80	20.638	1422	265.4	277.3	289.2	728350.2	5.95	7.89	
102-2909	OZ	190.5	114.51	0.812	53	56.2	58.8	61.4	5143.6	19.27	25.36	A2
		10242.1	2908.60	20.638	1371	274.5	287.2	299.9	702403.2	5.87	7.73	
102-3061	OZ	190.5	120.51	0.688	60	50.8	53.3	55.8	5716.2	20.06	26.93	A2
		10244.2	3061.00	17.462	1524	248.2	260.3	272.3	780604.4	6.11	8.21	
103-3030	OZ	192.2	119.28	0.875	53	59.4	62.8	66.3	5092.2	20.26	26.15	A3
		10331.0	3029.60	22.225	1346	290.0	306.8	323.6	695380.9	6.17	7.97	
104-2858	OZ	192.8	112.51	0.875	52	59.0	61.6	64.3	5012.2	19.01	24.83	A2
		10364.3	2857.80	22.225	1320	287.9	300.8	313.7	684460.1	5.79	7.57	
104-2756	OZ	192.9	108.51	1	48	63.8	66.6	69.3	4628.5	18.49	23.79	A2
		10368.5	2756.20	25.4	1219	311.5	325.0	338.4	632065.9	5.64	7.25	
104-2756	OZ	192.9	108.51	1	48	63.8	66.6	69.3	4628.5	18.49	23.79	A2
		10368.6	2756.20	25.4	1219	311.5	325.0	338.4	632067.2	5.64	7.25	
104-3055	OZ	193.0	120.28	0.875	53	57.0	59.5	62.0	5211.9	19.27	25.36	A1
		10378.1	3055.00	22.225	1371	278.4	290.5	302.6	711731.6	5.87	7.73	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
104-2928	OZ	193.1	115.28	1	48	64.1	67.7	71.2	4729.9	19.73	25.10	A3
		10379.4	2928.00	25.4	1244	313.0	330.4	347.8	645912.5	6.02	7.65	
104-2807	OZ	193.5	110.51	0.938	50	61.5	64.2	66.9	4838.5	18.75	24.31	A2
		10405.4	2807.00	23.812	1270	300.2	313.4	326.6	660744.6	5.71	7.41	
104-2953	OZ	193.7	116.28	1	50	61.8	64.3	66.9	4842.9	18.75	24.31	A1
		10414.8	2953.40	25.4	1270	301.5	314.0	326.6	661342.0	5.71	7.41	
104-2953	OZ	193.7	116.28	1	50	61.8	64.3	66.9	4842.9	18.75	24.31	A1
		10414.8	2953.40	25.4	1270	301.5	314.0	326.6	661342.9	5.71	7.41	
104-3004	OZ	194.1	118.28	0.938	52	59.5	62.0	64.5	5046.4	19.01	24.83	A1
		10435.0	3004.20	23.812	1320	290.4	302.7	315.1	689128.6	5.79	7.57	
105-3106	OZ	195.0	122.28	0.812	56	57.1	60.5	63.8	5459.5	20.65	26.93	A3
		10482.9	3105.80	20.638	1422	278.9	295.3	311.7	745540.6	6.29	8.21	
106-3207	OZ	196.3	126.28	0.75	60	52.2	54.6	57.0	5889.7	20.06	26.93	A1
		10555.0	3207.40	19.05	1524	255.0	266.5	278.1	804293.2	6.11	8.21	
106-3055	OZ	197.8	120.28	0.875	53	59.8	63.2	66.7	5339.9	20.39	26.41	A3
		10633.0	3055.00	22.225	1371	292.1	308.8	325.5	729207.9	6.21	8.05	
107-2883	OZ	198.2	113.51	0.875	53	59.4	62.1	64.7	5253.0	19.14	25.10	A2
		10657.4	2883.20	22.225	1346	290.2	303.0	315.8	717347.4	5.83	7.65	
107-3080	OZ	198.4	121.28	0.875	55	57.5	59.9	62.4	5456.5	19.40	25.62	A1
		10667.6	3080.40	22.225	1397	280.6	292.6	304.6	745133.9	5.91	7.81	
107-2953	OZ	199.0	116.28	1	50	64.7	68.2	71.7	4975.3	19.87	25.36	A3
		10699.5	2953.40	25.4	1270	315.7	333.0	350.2	679419.4	6.05	7.73	
107-2953	OZ	199.0	116.28	1	50	64.7	68.2	71.7	4975.3	19.87	25.36	A3
		10699.5	2953.40	25.4	1270	315.7	333.0	350.2	679420.3	6.05	7.73	
107-2782	OZ	199.1	109.51	1	48	64.4	67.1	69.8	4877.6	18.62	24.05	A2
		10703.5	2781.60	25.4	1244	314.4	327.7	341.0	666077.7	5.68	7.33	
107-3004	OZ	199.1	118.28	0.938	52	62.3	65.8	69.3	5176.5	20.13	25.88	A3
		10704.1	3004.20	23.812	1320	304.4	321.4	338.3	706900.3	6.13	7.89	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
107-2979	OZ	199.9	117.28	1	51	62.3	64.9	67.4	5097.0	18.88	24.57	A1
		10746.4	2978.80	25.4	1295	304.3	316.7	329.1	696044.9	5.75	7.49	
108-3207	OZ	200.4	126.28	0.75	60	54.9	58.2	61.4	6011.6	21.17	27.98	A3
		10773.5	3207.40	19.05	1524	268.1	284.0	299.9	820939.1	6.45	8.53	
108-2959	OZ	201.2	116.51	0.812	56	57.1	59.6	62.2	5634.4	19.54	25.88	A2
		10818.7	2959.40	20.638	1422	278.5	291.0	303.5	769422.9	5.95	7.89	
109-3080	OZ	203.0	121.28	0.875	55	60.3	63.7	67.0	5583.4	20.52	26.67	A3
		10915.8	3080.40	22.225	1397	294.2	310.8	327.3	762466.1	6.25	8.13	
110-2909	OZ	204.1	114.51	0.875	53	59.9	62.5	65.1	5511.8	19.27	25.36	A2
		10975.3	2908.60	22.225	1371	292.4	305.1	317.8	752685.1	5.87	7.73	
110-3106	OZ	204.3	122.28	0.875	56	57.9	60.4	62.8	5719.5	19.54	25.88	A1
		10982.1	3105.80	22.225	1422	282.8	294.7	306.6	781048.4	5.95	7.89	
110-2979	OZ	205.0	117.28	1	51	65.2	68.7	72.2	5228.3	20.00	25.62	A3
		11023.1	2978.80	25.4	1295	318.4	335.5	352.6	713968.2	6.09	7.81	
110-2807	OZ	205.4	110.51	1	50	65.0	67.7	70.4	5134.4	18.75	24.31	A2
		11041.7	2807.00	25.4	1270	317.2	330.4	343.6	701149.7	5.71	7.41	
110-2807	OZ	205.4	110.51	1	50	65.0	67.7	70.4	5134.4	18.75	24.31	A2
		11041.7	2807.00	25.4	1270	317.2	330.4	343.6	701150.7	5.71	7.41	
110-2858	OZ	205.5	112.51	0.938	52	62.5	65.2	67.8	5343.1	19.01	24.83	A2
		11048.6	2857.80	23.812	1320	305.3	318.3	331.2	729652.2	5.79	7.57	
111-3055	OZ	205.9	120.28	0.938	53	60.5	63.0	65.5	5559.9	19.27	25.36	A1
		11071.2	3055.00	23.812	1371	295.4	307.5	319.6	759260.2	5.87	7.73	
111-3004	OZ	206.1	118.28	1	52	62.9	65.4	67.9	5358.8	19.01	24.83	A1
		11081.0	3004.20	25.4	1320	307.0	319.3	331.6	731792.2	5.79	7.57	
111-3004	OZ	206.1	118.28	1	52	62.9	65.4	67.9	5358.8	19.01	24.83	A1
		11081.1	3004.20	25.4	1320	307.0	319.3	331.6	731793.2	5.79	7.57	
111-3061	OZ	206.9	120.51	0.75	60	54.7	57.2	59.7	6207.1	20.06	26.93	A2
		11123.8	3061.00	19.05	1524	267.2	279.3	291.4	847634.8	6.11	8.21	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
112-3106	OZ	208.8	122.28	0.875	56	60.7	64.0	67.4	5845.4	20.65	26.93	A3
		11223.8	3105.80	22.225	1422	296.3	312.7	329.1	798238.8	6.29	8.21	
113-2934	OZ	209.7	115.51	0.875	55	60.3	62.9	65.5	5766.0	19.40	25.62	A2
		11272.7	2934.00	22.225	1397	294.6	307.2	319.8	787399.6	5.91	7.81	
113-3055	OZ	210.7	120.28	0.938	53	63.3	66.7	70.1	5687.9	20.39	26.41	A3
		11326.0	3055.00	23.812	1371	309.1	325.8	342.5	776736.5	6.21	8.05	
114-3004	OZ	211.1	118.28	1	52	65.7	69.2	72.7	5488.9	20.13	25.88	A3
		11350.2	3004.20	25.4	1320	321.0	337.9	354.9	749563.9	6.13	7.89	
114-3004	OZ	211.1	118.28	1	52	65.7	69.2	72.7	5489.0	20.13	25.88	A3
		11350.2	3004.20	25.4	1320	321.0	337.9	354.9	749565.0	6.13	7.89	
114-2832	OZ	211.7	111.51	1	51	65.5	68.2	70.9	5399.1	18.88	24.57	A2
		11383.2	2832.40	25.4	1295	320.0	333.1	346.1	737289.4	5.75	7.49	
114-3207	OZ	211.8	126.28	0.812	60	55.9	58.3	60.7	6355.2	20.06	26.93	A1
		11389.1	3207.40	20.638	1524	273.1	284.7	296.2	867852.5	6.11	8.21	
114-3030	OZ	212.4	119.28	1	53	63.4	65.9	68.4	5628.3	19.14	25.10	A1
		11418.7	3029.60	25.4	1346	309.7	321.9	334.1	768593.1	5.83	7.65	
116-2959	OZ	215.7	116.51	0.875	56	60.8	63.3	65.9	6039.4	19.54	25.88	A2
		11596.3	2959.40	22.225	1422	296.8	309.3	321.8	824728.0	5.95	7.89	
116-3207	OZ	215.9	126.28	0.812	60	58.6	61.9	65.1	6477.0	21.17	27.98	A3
		11607.6	3207.40	20.638	1524	286.2	302.1	318.0	884498.3	6.45	8.53	
117-3030	OZ	217.3	119.28	1	53	66.3	69.7	73.2	5757.3	20.26	26.15	A3
		11680.5	3029.60	25.4	1346	323.5	340.4	357.2	786215.9	6.17	7.97	
117-2909	OZ	217.7	114.51	0.938	53	63.5	66.1	68.7	5877.4	19.27	25.36	A2
		11703.2	2908.60	23.812	1371	310.2	323.0	335.7	802606.1	5.87	7.73	
117-3106	OZ	218.0	122.28	0.938	56	61.5	63.9	66.4	6102.8	19.54	25.88	A1
		11718.0	3105.80	23.812	1422	300.2	312.1	324.0	833385.9	5.95	7.89	
117-2858	OZ	218.1	112.51	1	52	66.1	68.8	71.4	5671.6	19.01	24.83	A2
		11727.8	2857.80	25.4	1320	322.7	335.7	348.6	774501.4	5.79	7.57	

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Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
117-2858	OZ	218.1	112.51	1	52	66.1	68.8	71.4	5671.6	19.01	24.83	A2
		11727.8	2857.80	25.4	1320	322.7	335.7	348.6	774502.5	5.79	7.57	
118-3055	OZ	218.7	120.28	1	53	64.0	66.4	68.9	5905.5	19.27	25.36	A1
		11759.3	3055.00	25.4	1371	312.3	324.4	336.5	806450.4	5.87	7.73	
118-3055	OZ	218.7	120.28	1	53	64.0	66.4	68.9	5905.5	19.27	25.36	A1
		11759.3	3055.00	25.4	1371	312.3	324.4	336.5	806451.7	5.87	7.73	
120-3106	OZ	222.5	122.28	0.938	56	64.2	67.6	71.0	6228.6	20.65	26.93	A3
		11959.7	3105.80	23.812	1422	313.7	330.1	346.5	850576.3	6.29	8.21	
120-3061	OZ	223.2	120.51	0.812	60	58.6	61.1	63.6	6694.8	20.06	26.93	A2
		11997.8	3061.00	20.638	1524	286.2	298.3	310.3	914233.9	6.11	8.21	
120-3055	OZ	223.5	120.28	1	53	66.8	70.2	73.6	6033.5	20.39	26.41	A3
		12014.1	3055.00	25.4	1371	326.1	342.7	359.4	823926.7	6.21	8.05	
120-3055	OZ	223.5	120.28	1	53	66.8	70.2	73.6	6033.5	20.39	26.41	A3
		12014.1	3055.00	25.4	1371	326.1	342.7	359.4	823928.0	6.21	8.05	
121-2883	OZ	224.6	113.51	1	53	66.7	69.3	71.9	5952.0	19.14	25.10	A2
		12075.4	2883.20	25.4	1346	325.4	338.2	351.1	812794.7	5.83	7.65	
121-3080	OZ	225.1	121.28	1	55	64.5	67.0	69.4	6190.5	19.40	25.62	A1
		12102.7	3080.40	25.4	1397	314.9	326.9	338.9	845370.7	5.91	7.81	
122-3207	OZ	227.3	126.28	0.875	60	59.6	62.0	64.4	6817.6	20.06	26.93	A1
		12218.0	3207.40	22.225	1524	291.2	302.7	314.3	931009.5	6.11	8.21	
124-3080	OZ	229.7	121.28	1	55	67.3	70.7	74.1	6317.4	20.52	26.67	A3
		12350.8	3080.40	25.4	1397	328.5	345.1	361.6	862702.9	6.25	8.13	
124-2959	OZ	230.1	116.51	0.938	56	64.5	67.1	69.6	6441.6	19.54	25.88	A2
		12368.6	2959.40	23.812	1422	315.0	327.5	340.0	879654.7	5.95	7.89	
124-2909	OZ	231.1	114.51	1	53	67.2	69.8	72.4	6240.3	19.27	25.36	A2
		12425.9	2908.60	25.4	1371	328.0	340.8	353.5	852171.5	5.87	7.73	
124-2909	OZ	231.1	114.51	1	53	67.2	69.8	72.4	6240.3	19.27	25.36	A2
		12426.0	2908.60	25.4	1371	328.0	340.8	353.5	852172.9	5.87	7.73	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or OZ-Pile.

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BALL & SOCKET | MULTI-USE

Section	Solution Type	Section Modulus	Width	Thickness	Pipe Diameter	Weight at Ratio			Moment of Inertia	Coating Area		Configuration
						60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
124-3207	OZ	231.3	126.28	0.875	60	62.3	65.6	68.8	6939.5	21.17	27.98	A3
		12436.4	3207.40	22.225	1524	304.3	320.2	336.1	947655.4	6.45	8.53	
124-3106	OZ	231.5	122.28	1	56	65.0	67.5	69.9	6483.4	19.54	25.88	A1
		12448.8	3105.80	25.4	1422	317.5	329.4	341.3	885359.6	5.95	7.89	
127-3106	OZ	236.0	122.28	1	56	67.8	71.1	74.5	6609.2	20.65	26.93	A3
		12690.5	3105.80	25.4	1422	331.0	347.4	363.8	902550.1	6.29	8.21	
128-2934	OZ	237.7	115.51	1	55	67.7	70.3	72.9	6536.7	19.40	25.62	A2
		12779.4	2934.00	25.4	1397	330.6	343.2	355.8	892638.0	5.91	7.81	
129-3061	OZ	239.3	120.51	0.875	60	62.5	65.0	67.4	7179.4	20.06	26.93	A2
		12866.3	3061.00	22.225	1524	305.1	317.2	329.3	980411.6	6.11	8.21	
130-3207	OZ	242.6	126.28	0.938	60	63.3	65.7	68.1	7277.1	20.06	26.93	A1
		13041.4	3207.40	23.812	1524	309.2	320.8	332.3	993758.2	6.11	8.21	
131-2959	OZ	244.3	116.51	1	56	68.2	70.8	73.4	6841.0	19.54	25.88	A2
		13135.5	2959.40	25.4	1422	333.2	345.7	358.1	934199.5	5.95	7.89	
133-3207	OZ	246.6	126.28	0.938	60	66.0	69.3	72.5	7399.0	21.17	27.98	A3
		13259.9	3207.40	23.812	1524	322.3	338.2	354.1	1010404.1	6.45	8.53	
137-3061	OZ	255.4	120.51	0.938	60	66.4	68.8	71.3	7660.9	20.06	26.93	A2
		13729.2	3061.00	23.812	1524	324.0	336.1	348.2	1046161.4	6.11	8.21	
139-3207	OZ	257.8	126.28	1	60	67.0	69.4	71.7	7733.7	20.06	26.93	A1
		13859.6	3207.40	25.4	1524	327.2	338.8	350.3	1056104.6	6.11	8.21	
141-3207	OZ	261.9	126.28	1	60	69.7	73.0	76.2	7855.6	21.17	27.98	A3
		14078.1	3207.40	25.4	1524	340.3	356.2	372.1	1072750.5	6.45	8.53	
146-3061	OZ	271.3	120.51	1	60	70.2	72.7	75.2	8139.3	20.06	26.93	A2
		14586.5	3061.00	25.4	1524	342.9	355.0	367.1	1111489.7	6.11	8.21	

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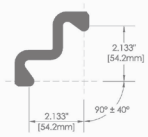
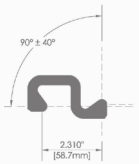
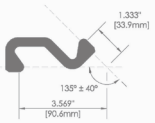
PilePro® Sheet Pile Connectors



HR® Omega



HR® 90



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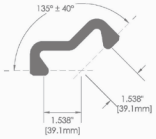

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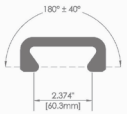

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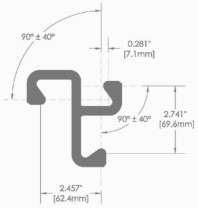
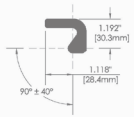


HR® Tee



C9®

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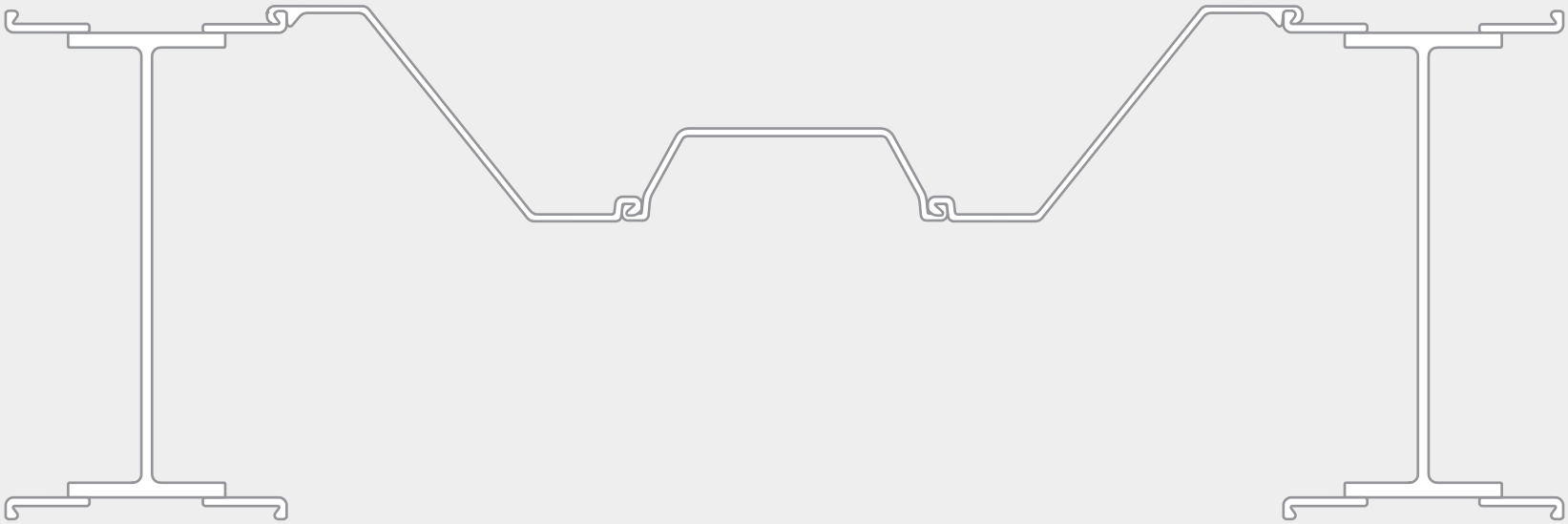
Configuration A



SECTION NAME:
69 - 2740

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

These are examples from a large variety of possible IZ-Pile solutions.
Please configure your own system on sheet-pile.com/iz-pile

Sheet Pile LLC is the owner and assignee of numerous patents and IP, that may be related to this sheet pile solution.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
27-2372	IZ	50.3	93.4	25.4	29.5	33.6	537.3	8.83	17.85	W21X101	B2
		2702.5	2372.0	123.8	143.9	163.9	73372.5	2.69	5.44	W530X150	
27-2314	IZ	50.4	91.1	25.0	29.2	33.4	678.5	8.83	17.85	W27X94	B2
		2709.1	2314.0	122.1	142.7	163.3	92650.2	2.69	5.44	W690X140	
28-2619	IZ	51.1	103.1	32.6	36.3	40.0	421.8	8.79	17.78	HP16x183	B1
		2746.4	2619.1	159.0	177.1	195.3	57596.6	2.68	5.42	HP410x272	
28-1653	IZ	51.4	65.1	24.6	28.8	33.0	471.0	6.1	12.2	W18X65	B3
		2760.8	1653.0	120.0	140.6	161.1	64325.5	1.86	3.72	W460X97	
28-2527	IZ	52.0	99.5	27.4	31.2	35.1	637.1	8.79	17.78	W24X131	B1
		2797.6	2527.0	133.7	152.5	171.3	87006.1	2.68	5.42	W610X195	
28-1688	IZ	52.1	66.5	24.6	28.8	32.9	618.0	6.1	12.2	W24X68	B3
		2799.1	1688.0	120.3	140.4	160.6	84392.9	1.86	3.72	W610X101	
28-1670	IZ	52.1	65.7	24.9	29.1	33.2	551.0	6.1	12.2	W21X68	B3
		2802.3	1670.0	121.6	142.0	162.3	75241.8	1.86	3.72	W530X101	
28-2384	IZ	52.2	93.9	25.6	29.7	33.8	628.1	8.83	17.85	W24X104	B2
		2807.6	2384.0	125.1	145.1	165.1	85772.1	2.69	5.44	W610X155	
28-2467	IZ	52.2	97.1	26.2	30.2	34.1	783.4	8.79	17.78	W30X116	B1
		2807.8	2467.0	128.1	147.3	166.6	106976.7	2.68	5.42	W760X173	
28-2289	IZ	52.4	90.1	26.5	30.7	35.0	642.1	8.83	17.85	W24X103	B2
		2815.0	2289.0	129.3	150.1	170.9	87686.4	2.69	5.44	W610X153	
28-2487	IZ	52.4	97.9	31.1	35.0	38.9	516.4	8.79	17.78	W18X158	B1
		2815.2	2487.0	151.7	170.8	189.9	70521.7	2.68	5.42	W460X235	
28-2740	IZ	52.5	107.9	26.1	29.5	32.9	859.2	8.79	17.78	880mm HR King Pile	A13
		2822.7	2740.0	127.6	144.2	160.8	117330.3	2.68	5.42	880mm HR King Pile	
28-2325	IZ	52.6	91.5	25.6	29.8	34.0	779.6	8.83	17.85	W30X99	B2
		2827.8	2325.0	124.9	145.4	165.9	106467.3	2.69	5.44	W760X147	
28-2373	IZ	52.9	93.4	26.6	30.7	34.9	568.0	8.83	17.85	W21X111	B2
		2841.4	2373.0	130.0	150.1	170.2	77571.0	2.69	5.44	W530X165	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
28-2525	IZ	52.9	99.4	37.0	40.8	44.7	389.3	8.79	17.78	W12X210	B1
		2842.6	2525.0	180.5	199.3	218.1	53156.1	2.68	5.42	W310X313	
29-2599	IZ	52.9	102.3	33.9	37.6	41.4	409.6	8.79	17.78	W14X193	B1
		2846.7	2599.0	165.4	183.6	201.9	55937.7	2.68	5.42	W360X287	
29-1654	IZ	53.0	65.1	25.7	29.9	34.1	489.5	6.1	12.2	W18X71	B3
		2850.8	1654.0	125.7	146.2	166.7	66851.6	1.86	3.72	W460X106	
29-2657	IZ	53.0	104.6	31.7	35.4	39.1	477.3	8.79	17.78	HP18x181	B1
		2851.0	2657.2	155.0	172.9	190.8	65174.4	2.68	5.42	HP360x269	
29-2518	IZ	53.2	99.1	29.4	33.3	37.1	585.9	8.79	17.78	W21X147	B1
		2857.7	2518.0	143.6	162.4	181.3	80015.4	2.68	5.42	W530X219	
29-2346	IZ	53.3	92.4	28.0	32.1	36.3	505.8	8.83	17.85	W18X119	B2
		2866.1	2346.0	136.5	156.8	177.1	69074.0	2.69	5.44	W460X177	
29-2314	IZ	53.6	91.1	26.1	30.3	34.6	726.2	8.83	17.85	W27X102	B2
		2882.7	2314.0	127.6	148.1	168.7	99165.3	2.69	5.44	W690X152	
29-2511	IZ	53.8	98.9	28.1	32.0	35.9	471.5	8.83	17.85	HP18x135	B2
		2892.2	2510.8	137.4	156.4	175.3	64389.4	2.69	5.44	HP360x202	
29-1671	IZ	54.0	65.8	25.9	30.0	34.2	572.7	6.1	12.2	W21X73	B3
		2901.7	1671.0	126.3	146.6	166.9	78200.8	1.86	3.72	W530X109	
29-1740	IZ	54.1	68.5	25.3	29.3	33.3	493.2	6.1	12.2	W18X76	B3
		2909.5	1740.0	123.5	143.0	162.5	67354.1	1.86	3.72	W460X113	
30-2454	IZ	54.8	96.6	27.9	31.8	35.8	757.8	8.79	17.78	W27X129	B1
		2948.2	2454.0	136.1	155.5	174.8	103481.4	2.68	5.42	W690X192	
30-2492	IZ	55.2	98.1	26.2	30.1	34.0	907.0	8.79	17.78	W33X118	B1
		2966.6	2492.0	127.7	146.8	165.8	123854.6	2.68	5.42	W840X176	
30-2467	IZ	55.5	97.1	27.1	31.1	35.0	837.1	8.79	17.78	W30X124	B1
		2984.6	2467.0	132.5	151.8	171.0	114311.0	2.68	5.42	W760X185	
30-2375	IZ	55.8	93.5	28.0	32.1	36.2	604.8	8.83	17.85	W21X122	B2
		2998.1	2375.0	136.5	156.6	176.6	82597.5	2.69	5.44	W530X182	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
30-1688	IZ	55.8	66.5	26.1	30.2	34.3	667.4	6.1	12.2	W24X76	B3
		2998.2	1688.0	127.3	147.4	167.5	91144.7	1.86	3.72	W610X113	
30-2601	IZ	56.2	102.4	35.9	39.7	43.4	441.0	8.79	17.78	W14X211	B1
		3018.9	2601.0	175.5	193.8	212.0	60226.8	2.68	5.42	W360X314	
30-2343	IZ	56.2	92.2	29.4	33.6	37.8	540.8	8.83	17.85	W18X130	B2
		3020.7	2343.0	143.7	164.1	184.4	73856.6	2.69	5.44	W460X193	
30-2528	IZ	56.2	99.5	39.3	43.2	47.0	422.9	8.79	17.78	W12X230	B1
		3023.6	2528.0	192.1	210.8	229.6	57751.6	2.68	5.42	W310X342	
30-2385	IZ	56.4	93.9	27.2	31.3	35.4	683.4	8.83	17.85	W24X117	B2
		3030.0	2385.0	133.0	153.0	172.9	93322.6	2.69	5.44	W610X174	
30-2326	IZ	56.5	91.6	26.8	30.9	35.1	842.7	8.83	17.85	W30X108	B2
		3036.3	2326.0	130.6	151.1	171.6	115074.2	2.69	5.44	W760X161	
30-2740	IZ	56.5	107.9	28.2	31.6	35.0	924.3	8.79	17.78	880mm HR King Pile	A17
		3036.7	2740.0	137.6	154.2	170.8	126224.8	2.68	5.42	880mm HR King Pile	
30-2489	IZ	56.5	98.0	33.1	37.0	40.9	566.4	8.79	17.78	W18X175	B1
		3039.1	2489.0	161.6	180.7	199.8	77344.9	2.68	5.42	W460X260	
31-2528	IZ	57.2	99.5	29.2	33.0	36.9	706.7	8.79	17.78	W24X146	B1
		3073.4	2528.0	142.4	161.2	179.9	96505.9	2.68	5.42	W610X217	
31-1742	IZ	57.3	68.6	27.0	31.0	35.0	526.9	6.1	12.2	W18X86	B3
		3081.5	1742.0	131.9	151.4	170.9	71954.2	1.86	3.72	W460X128	
31-1672	IZ	57.4	65.8	27.6	31.7	35.9	614.7	6.1	12.2	W21X83	B3
		3086.3	1672.0	134.6	154.9	175.2	83947.0	1.86	3.72	W530X123	
31-2316	IZ	57.6	91.2	27.6	31.8	36.1	786.0	8.83	17.85	W27X114	B2
		3097.5	2316.0	134.9	155.5	176.0	107329.1	2.69	5.44	W690X170	
31-2660	IZ	57.8	104.7	34.4	38.1	41.8	529.7	8.79	17.78	HP18x204	B1
		3109.5	2660.4	168.2	186.0	203.9	72329.1	2.68	5.42	HP460x304	
31-2514	IZ	58.2	99.0	30.7	34.6	38.5	515.9	8.83	17.85	HP18x157	B2
		3130.0	2514.0	149.9	168.9	187.8	70457.2	2.69	5.44	HP360x234	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
32-1723	IZ	58.5	67.8	28.1	32.1	36.1	489.8	6.1	12.2	W16X89	B3
		3147.6	1723.0	137.0	156.7	176.4	66885.7	1.86	3.72	W410X132	
32-2468	IZ	58.6	97.2	28.2	32.1	36.1	887.5	8.79	17.78	W30X132	B1
		3147.9	2468.0	137.6	156.8	176.0	121194.8	2.68	5.42	W760X196	
32-2376	IZ	58.6	93.5	29.2	33.3	37.4	638.6	8.83	17.85	W21X132	B2
		3148.3	2376.0	142.7	162.8	182.8	87207.8	2.69	5.44	W530X196	
32-2515	IZ	59.2	99.0	31.7	35.6	39.5	665.8	8.79	17.78	W21X166	B1
		3184.7	2515.0	155.0	173.8	192.7	90923.0	2.68	5.42	W530X248	
32-2600	IZ	59.3	102.4	27.6	31.2	34.8	969.8	8.83	17.85	880mm HR King Pile	A1
		3186.0	2600.0	134.6	152.2	169.8	132429.2	2.69	5.44	880mm HR King Pile	
32-2345	IZ	59.3	92.3	31.1	35.2	39.4	578.1	8.83	17.85	W18X143	B2
		3189.8	2345.0	151.7	172.0	192.3	78948.1	2.69	5.44	W460X213	
32-1689	IZ	59.4	66.5	27.5	31.6	35.7	715.4	6.1	12.2	W24X84	B3
		3192.8	1689.0	134.2	154.3	174.4	97700.3	1.86	3.72	W610X125	
32-2530	IZ	59.4	99.6	41.9	45.8	49.6	457.6	8.79	17.78	W12X252	B1
		3196.2	2530.0	204.6	223.4	242.2	62485.5	2.68	5.42	W310X375	
32-2604	IZ	59.9	102.5	38.5	42.2	46.0	480.1	8.79	17.78	W14X233	B1
		3222.0	2604.0	188.0	206.2	224.4	65568.0	2.68	5.42	W360X347	
32-1713	IZ	60.0	67.4	27.2	31.3	35.3	800.5	6.1	12.2	W27X84	B3
		3224.8	1713.0	132.8	152.6	172.4	109320.7	1.86	3.72	W690X125	
32-2327	IZ	60.2	91.6	27.8	32.0	36.2	902.4	8.83	17.85	W30X116	B2
		3234.2	2327.0	136.0	156.4	176.9	123224.0	2.69	5.44	W760X173	
33-2492	IZ	60.7	98.1	27.6	31.5	35.5	1004.3	8.79	17.78	W33X130	B1
		3265.3	2492.0	135.0	154.0	173.1	137140.6	2.68	5.42	W840X193	
33-2387	IZ	60.8	94.0	29.0	33.1	37.2	744.5	8.83	17.85	W24X131	B2
		3269.3	2387.0	141.7	161.7	181.7	101673.7	2.69	5.44	W610X195	
33-1743	IZ	60.8	68.6	28.9	32.9	36.9	565.1	6.1	12.2	W18X97	B3
		3270.1	1743.0	141.3	160.8	180.3	77174.5	1.86	3.72	W460X144	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
33-1674	IZ	60.9	65.9	29.4	33.5	37.7	657.7	6.1	12.2	W21X93	B3
		3271.8	1674.0	143.4	163.7	183.9	89812.2	1.86	3.72	W530X138	
33-2555	IZ	61.1	100.6	28.9	32.7	36.5	836.3	8.79	17.78	W27X146	B1
		3286.3	2555.0	141.2	159.8	178.3	114198.6	2.68	5.42	W690X217	
33-1725	IZ	61.6	67.9	30.0	34.0	38.1	522.7	6.1	12.2	W16X100	B3
		3312.2	1725.0	146.4	166.1	185.8	71377.4	1.86	3.72	W410X149	
33-2529	IZ	62.1	99.6	31.1	35.0	38.8	776.3	8.79	17.78	W24X162	B1
		3339.0	2529.0	151.9	170.7	189.5	106013.4	2.68	5.42	W610X241	
34-2378	IZ	62.7	93.6	31.2	35.3	39.4	690.7	8.83	17.85	W21X147	B2
		3368.8	2378.0	152.2	172.2	192.2	94327.0	2.69	5.44	W530X219	
34-2347	IZ	62.7	92.4	33.0	37.1	41.3	618.5	8.83	17.85	W18X158	B2
		3371.5	2347.0	160.9	181.2	201.5	84456.0	2.69	5.44	W460X235	
34-2352	IZ	62.8	92.6	27.8	31.9	36.1	1032.0	8.83	17.85	W33X118	B2
		3375.7	2352.0	135.5	155.8	176.0	140933.8	2.69	5.44	W840X176	
34-2517	IZ	63.4	99.1	33.5	37.4	41.3	570.2	8.83	17.85	HP18x181	B2
		3406.3	2517.2	163.8	182.7	201.6	77869.1	2.69	5.44	HP360x269	
34-2314	IZ	63.4	91.1	29.6	33.8	38.0	875.9	8.83	17.85	W27X129	B2
		3407.7	2314.0	144.5	165.1	185.7	119608.5	2.69	5.44	W690X192	
34-1744	IZ	63.4	68.7	30.5	34.5	38.5	594.0	6.1	12.2	W18X106	B3
		3408.5	1744.0	148.9	168.3	187.8	81122.7	1.86	3.72	W460X158	
34-2518	IZ	63.4	99.1	33.7	37.5	41.4	720.6	8.79	17.78	W21X182	B1
		3410.7	2518.0	164.4	183.3	202.2	98399.6	2.68	5.42	W530X272	
34-2600	IZ	63.5	102.4	29.7	33.3	36.9	1038.4	8.83	17.85	880mm HR King Pile	A5
		3411.5	2600.0	145.2	162.7	180.3	141802.6	2.69	5.44	880mm HR King Pile	
34-2327	IZ	63.6	91.6	28.8	33.0	37.2	959.3	8.83	17.85	W30X124	B2
		3420.4	2327.0	140.7	161.2	181.6	130999.6	2.69	5.44	W760X185	
34-1690	IZ	63.7	66.5	29.4	33.5	37.6	773.9	6.1	12.2	W24X94	B3
		3425.7	1690.0	143.4	163.5	183.6	105684.0	1.86	3.72	W610X140	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	ft²/ft (m²/m)	in (mm)	
34-1772	IZ	63.8	69.8	29.2	33.1	37.0	682.1	6.1	12.2	W21X101	B3
		3430.8	1772.0	142.5	161.7	180.9	93146.8	1.86	3.72	W530X150	
34-2534	IZ	63.8	99.8	45.0	48.9	52.7	506.4	8.79	17.78	W12X279	B1
		3431.8	2534.0	219.8	238.5	257.3	69150.3	2.68	5.42	W310X415	
34-1724	IZ	64.0	67.9	28.0	32.0	36.0	945.0	6.1	12.2	W30X90	B3
		3441.3	1724.0	136.5	156.2	175.9	129050.6	1.86	3.72	W760X134	
35-2606	IZ	64.1	102.6	41.3	45.0	48.8	525.0	8.79	17.78	W14X257	B1
		3447.1	2606.0	201.7	219.9	238.1	71699.1	2.68	5.42	W360X382	
35-2504	IZ	64.4	98.6	28.1	32.0	35.9	1144.1	8.79	17.78	W36X135	B1
		3460.5	2504.0	137.2	156.1	175.1	156243.0	2.68	5.42	W920X201	
35-1714	IZ	65.2	67.5	28.9	32.9	37.0	877.6	6.1	12.2	W27X94	B3
		3504.2	1714.0	140.9	160.8	180.6	119842.0	1.86	3.72	W690X140	
35-2466	IZ	65.3	97.1	30.2	34.1	38.0	1001.7	8.79	17.78	W30X148	B1
		3511.9	2466.0	147.2	166.5	185.7	136787.0	2.68	5.42	W760X220	
35-2493	IZ	65.8	98.1	29.0	32.9	36.8	1095.4	8.79	17.78	W33X141	B1
		3536.4	2493.0	141.5	160.6	179.6	149589.1	2.68	5.42	W840X210	
36-2388	IZ	66.2	94.0	30.9	35.0	39.1	818.1	8.83	17.85	W24X146	B2
		3558.1	2388.0	150.9	170.8	190.8	111724.3	2.69	5.44	W610X217	
36-2556	IZ	66.2	100.6	30.7	34.5	38.3	913.7	8.79	17.78	W27X161	B1
		3559.9	2556.0	150.0	168.6	187.2	124773.9	2.68	5.42	W690X240	
36-2527	IZ	66.7	99.5	32.7	36.6	40.4	841.0	8.79	17.78	W24X176	B1
		3583.4	2527.0	159.8	178.6	197.4	114848.8	2.68	5.42	W610X262	
36-1784	IZ	66.7	70.2	29.5	33.4	37.3	802.5	6.1	12.2	W24X104	B3
		3587.0	1784.0	144.2	163.3	182.3	109583.6	1.86	3.72	W610X155	
36-1911	IZ	66.8	75.2	32.6	36.2	39.9	585.1	6.1	12.2	HP18x135	B3
		3589.2	1910.8	159.1	176.8	194.6	79906.1	1.86	3.72	HP360x202	
36-2328	IZ	66.8	91.7	29.9	34.1	38.3	1012.7	8.83	17.85	W30X132	B2
		3592.0	2328.0	146.0	166.5	186.9	138290.2	2.69	5.44	W760X196	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
36-2349	IZ	67.0	92.5	35.1	39.3	43.4	671.3	8.83	17.85	W18X175	B2
		3602.1	2349.0	171.4	191.7	212.0	91674.0	2.69	5.44	W460X260	
36-1773	IZ	67.3	69.8	30.9	34.8	38.7	723.2	6.1	12.2	W21X111	B3
		3617.4	1773.0	150.9	170.0	189.2	98754.9	1.86	3.72	W530X165	
36-1746	IZ	67.7	68.7	32.8	36.7	40.7	642.0	6.1	12.2	W18X119	B3
		3637.6	1746.0	159.9	179.4	198.8	87665.6	1.86	3.72	W460X177	
36-1689	IZ	67.8	66.5	30.9	35.0	39.1	831.3	6.1	12.2	W24X103	B3
		3644.2	1689.0	150.9	171.0	191.1	113517.2	1.86	3.72	W610X153	
37-2520	IZ	68.3	99.2	36.4	40.3	44.1	625.4	8.83	17.85	HP18x204	B2
		3671.6	2520.4	177.7	196.6	215.5	85405.3	2.69	5.44	HP460x304	
37-1725	IZ	68.3	67.9	29.6	33.6	37.7	1012.7	6.1	12.2	W30X99	B3
		3673.1	1725.0	144.6	164.3	184.0	138291.6	1.86	3.72	W760X147	
37-2536	IZ	68.3	99.8	48.2	52.0	55.8	558.3	8.79	17.78	W12X305	B1
		3674.5	2536.0	235.1	253.8	272.5	76245.0	2.68	5.42	W310X454	
37-2519	IZ	68.6	99.2	36.0	39.8	43.7	790.5	8.79	17.78	W21X201	B1
		3690.4	2519.0	175.6	194.5	213.3	107945.3	2.68	5.42	W530X300	
37-2352	IZ	68.6	92.6	29.3	33.5	37.6	1135.1	8.83	17.85	W33X130	B2
		3690.7	2352.0	143.2	163.4	183.7	155010.6	2.69	5.44	W840X193	
37-2375	IZ	69.0	93.5	33.6	37.8	41.9	775.5	8.83	17.85	W21X166	B2
		3709.1	2375.0	164.3	184.3	204.4	105895.6	2.69	5.44	W530X248	
37-2609	IZ	69.1	102.7	44.3	48.0	51.7	578.1	8.79	17.78	W14X283	B1
		3714.8	2609.0	216.2	234.4	252.6	78938.7	2.68	5.42	W360X421	
37-1714	IZ	69.6	67.5	30.4	34.4	38.5	942.0	6.1	12.2	W27X102	B3
		3739.5	1714.0	148.3	168.1	187.9	128637.7	1.86	3.72	W690X152	
38-2415	IZ	69.7	95.1	30.6	34.7	38.7	954.0	8.83	17.85	W27X146	B2
		3748.9	2415.0	149.5	169.3	189.0	130272.5	2.69	5.44	W690X217	
38-2494	IZ	70.6	98.2	30.3	34.2	38.1	1183.5	8.79	17.78	W33X152	B1
		3798.2	2494.0	148.1	167.1	186.2	161612.3	2.68	5.42	W840X226	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
38-2740	IZ	71.0	107.9	27.9	31.3	34.7	1502.3	8.79	17.78	1080mm HR King Pile	A14
		3816.0	2740.0	136.0	152.6	169.2	205145.7	2.68	5.42	1080mm HR King Pile	
38-1775	IZ	71.2	69.9	32.7	36.6	40.5	772.2	6.1	12.2	W21X122	B3
		3827.8	1775.0	159.5	178.7	197.8	105456.7	1.86	3.72	W530X182	
38-2529	IZ	71.2	99.6	34.6	38.5	42.3	907.3	8.79	17.78	W24X192	B1
		3829.9	2529.0	169.0	187.8	206.6	123896.6	2.68	5.42	W610X285	
38-2389	IZ	71.3	94.1	33.0	37.1	41.1	891.8	8.83	17.85	W24X162	B2
		3835.7	2389.0	161.0	181.0	200.9	121782.6	2.69	5.44	W610X241	
39-1743	IZ	71.6	68.6	34.8	38.7	42.7	689.3	6.1	12.2	W18X130	B3
		3849.8	1743.0	169.7	189.2	208.6	94126.5	1.86	3.72	W460X193	
39-2558	IZ	71.7	100.7	32.7	36.5	40.3	996.3	8.79	17.78	W27X178	B1
		3854.1	2558.0	159.7	178.3	196.9	136050.0	2.68	5.42	W690X265	
39-2740	IZ	72.0	107.9	27.9	31.3	34.7	1540.5	8.79	17.78	1180mm HR King Pile	A15
		3869.2	2740.0	136.4	153.0	169.6	210366.8	2.68	5.42	1180mm HR King Pile	
39-2504	IZ	72.2	98.6	30.0	33.8	37.7	1294.0	8.79	17.78	W36X150	B1
		3879.3	2504.0	146.2	165.2	184.2	176704.3	2.68	5.42	W920X223	
39-2364	IZ	72.2	93.1	29.8	33.9	38.0	1282.6	8.83	17.85	W36X135	B2
		3879.4	2364.0	145.5	165.6	185.7	175153.6	2.69	5.44	W920X201	
39-1785	IZ	72.3	70.3	31.7	35.6	39.5	876.2	6.1	12.2	W24X117	B3
		3885.0	1785.0	154.7	173.7	192.7	119658.8	1.86	3.72	W610X174	
39-1914	IZ	72.6	75.4	35.9	39.6	43.2	643.3	6.1	12.2	HP18x157	B3
		3902.7	1914.0	175.5	193.2	210.9	87850.3	1.86	3.72	HP360x234	
39-2500	IZ	73.3	98.4	29.9	33.8	37.7	1400.3	8.79	17.78	W40X149	B1
		3942.8	2500.0	145.8	164.8	183.8	191223.4	2.68	5.42	W1000X222	
39-2378	IZ	73.4	93.6	35.7	39.8	43.9	833.3	8.83	17.85	W21X182	B2
		3944.3	2378.0	174.3	194.3	214.4	113793.5	2.69	5.44	W530X272	
40-1726	IZ	73.6	68.0	31.2	35.2	39.2	1097.5	6.1	12.2	W30X108	B3
		3954.4	1726.0	152.2	171.9	191.6	149872.0	1.86	3.72	W760X161	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
40-2540	IZ	73.6	100.0	51.8	55.6	59.5	618.4	8.79	17.78	W12X336	B1
		3955.1	2540.0	253.0	271.7	290.4	84441.4	2.68	5.42	W310X500	
40-2326	IZ	73.9	91.6	32.0	36.2	40.4	1133.8	8.83	17.85	W30X148	B2
		3975.2	2326.0	156.3	176.7	197.2	154835.6	2.69	5.44	W760X220	
40-2353	IZ	74.0	92.6	30.8	34.9	39.0	1231.6	8.83	17.85	W33X141	B2
		3976.2	2353.0	150.1	170.4	190.6	168192.2	2.69	5.44	W840X210	
40-2612	IZ	74.0	102.8	47.5	51.2	54.9	633.8	8.79	17.78	W14X311	B1
		3979.4	2612.0	231.9	250.0	268.2	86552.2	2.68	5.42	W360X463	
40-2740	IZ	74.9	107.9	33.3	36.7	40.1	1226.3	8.79	17.78	880mm HR King Pile	A21
		4028.7	2740.0	162.5	179.1	195.7	167464.5	2.68	5.42	880mm HR King Pile	
40-1776	IZ	74.9	69.9	34.4	38.3	42.2	817.3	6.1	12.2	W21X132	B3
		4029.3	1776.0	167.9	187.0	206.1	111611.6	1.86	3.72	W530X196	
40-1716	IZ	74.9	67.6	32.4	36.4	40.5	1022.4	6.1	12.2	W27X114	B3
		4029.5	1716.0	158.2	178.0	197.7	139621.7	1.86	3.72	W690X170	
40-2581	IZ	75.0	101.6	31.8	35.6	39.3	1141.0	8.79	17.78	W30X173	B1
		4031.6	2581.0	155.3	173.7	192.1	155819.5	2.68	5.42	W760X257	
40-2416	IZ	75.1	95.1	32.5	36.6	40.6	1035.8	8.83	17.85	W27X161	B2
		4035.8	2416.0	158.9	178.6	198.3	141454.0	2.69	5.44	W690X240	
41-1745	IZ	75.9	68.7	36.9	40.9	44.9	739.2	6.1	12.2	W18X143	B3
		4078.6	1745.0	180.3	199.7	219.2	100945.4	1.86	3.72	W460X213	
41-2530	IZ	76.0	99.6	36.4	40.3	44.1	976.7	8.79	17.78	W24X207	B1
		4085.2	2530.0	177.9	196.7	215.5	133382.8	2.68	5.42	W610X307	
41-2387	IZ	76.1	94.0	34.7	38.8	42.9	960.4	8.83	17.85	W24X176	B2
		4092.0	2387.0	169.4	189.3	209.3	131149.4	2.69	5.44	W610X262	
41-2505	IZ	76.7	98.6	31.2	35.0	38.9	1381.5	8.79	17.78	W36X160	B1
		4123.6	2505.0	152.1	171.1	190.1	188654.7	2.68	5.42	W920X238	
42-2740	IZ	77.3	107.9	29.9	33.3	36.7	1636.3	8.79	17.78	1080mm HR King Pile	A18
		4156.6	2740.0	146.0	162.6	179.2	223457.7	2.68	5.42	1080mm HR King Pile	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
42-2600	IZ	77.8	102.4	29.4	33.0	36.6	1647.4	8.83	17.85	1080mm HR King Pile	A2
		4184.8	2600.0	143.5	161.0	178.6	224973.1	2.69	5.44	1080mm HR King Pile	
42-2556	IZ	78.1	100.6	34.6	38.4	42.2	1097.8	8.79	17.78	W27X194	B1
		4199.4	2556.0	169.1	187.6	206.2	149920.3	2.68	5.42	W690X289	
42-1787	IZ	78.2	70.4	34.1	38.0	41.9	957.7	6.1	12.2	W24X131	B3
		4205.3	1787.0	166.4	185.4	204.4	130784.4	1.86	3.72	W610X195	
42-2492	IZ	78.2	98.1	32.3	36.2	40.1	1323.1	8.79	17.78	W33X169	B1
		4206.8	2492.0	157.7	176.7	195.8	180682.0	2.68	5.42	W840X251	
42-2740	IZ	78.4	107.9	30.0	33.4	36.8	1678.8	8.79	17.78	1180mm HR King Pile	A19
		4216.5	2740.0	146.4	163.0	179.6	229249.1	2.68	5.42	1180mm HR King Pile	
42-1727	IZ	78.5	68.0	32.7	36.7	40.7	1177.8	6.1	12.2	W30X116	B3
		4221.3	1727.0	159.4	179.1	198.8	160833.0	1.86	3.72	W760X173	
42-2379	IZ	78.8	93.7	38.1	42.2	46.3	907.3	8.83	17.85	W21X201	B2
		4235.7	2379.0	186.1	206.1	226.2	123894.4	2.69	5.44	W530X300	
42-2600	IZ	78.8	102.4	29.5	33.1	36.7	1687.7	8.83	17.85	1180mm HR King Pile	A3
		4239.0	2600.0	143.9	161.5	179.0	230475.3	2.69	5.44	1180mm HR King Pile	
43-2354	IZ	79.1	92.7	32.2	36.3	40.5	1324.9	8.83	17.85	W33X152	B2
		4252.0	2354.0	157.1	177.3	197.5	180922.6	2.69	5.44	W840X226	
43-1917	IZ	79.4	75.5	39.7	43.3	46.9	714.4	6.1	12.2	HP18x181	B3
		4267.4	1917.2	193.7	211.4	229.1	97553.1	1.86	3.72	HP360x269	
43-2616	IZ	79.8	103.0	51.0	54.8	58.5	700.4	8.79	17.78	W14X342	B1
		4289.1	2616.0	249.2	267.4	285.5	95646.7	2.68	5.42	W360X509	
43-2364	IZ	80.4	93.1	31.8	35.9	40.0	1441.3	8.83	17.85	W36X150	B2
		4321.1	2364.0	155.1	175.2	195.4	196826.7	2.69	5.44	W920X223	
43-1747	IZ	80.4	68.8	39.5	43.4	47.4	793.2	6.1	12.2	W18X158	B3
		4324.1	1747.0	192.7	212.1	231.5	108319.8	1.86	3.72	W460X235	
43-1778	IZ	80.4	70.0	37.0	40.9	44.8	886.8	6.1	12.2	W21X147	B3
		4325.2	1778.0	180.5	199.6	218.7	121105.8	1.86	3.72	W530X219	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
43-2418	IZ	80.8	95.2	34.6	38.7	42.7	1123.1	8.83	17.85	W27X178	B2
		4344.7	2418.0	169.2	188.8	208.5	153369.2	2.69	5.44	W690X265	
44-2389	IZ	80.9	94.1	36.7	40.8	44.8	1030.4	8.83	17.85	W24X192	B2
		4349.7	2389.0	179.1	199.0	219.0	140713.8	2.69	5.44	W610X285	
44-2469	IZ	81.1	97.2	46.8	50.8	54.7	678.5	8.83	17.85	W14X283	B2
		4360.6	2469.0	228.6	247.9	267.2	92661.7	2.69	5.44	W360X421	
44-2506	IZ	81.4	98.7	32.4	36.2	40.1	1471.9	8.79	17.78	W36X170	B1
		4374.2	2506.0	158.0	177.0	195.9	200994.7	2.68	5.42	W920X253	
44-2360	IZ	81.4	92.9	31.7	35.8	39.9	1554.2	8.83	17.85	W40X149	B2
		4376.1	2360.0	154.7	174.9	195.0	212241.3	2.69	5.44	W1000X222	
44-2582	IZ	81.8	101.7	33.9	37.7	41.4	1254.4	8.79	17.78	W30X191	B1
		4398.1	2582.0	165.5	183.9	202.3	171306.0	2.68	5.42	W760X284	
44-1752	IZ	82.0	69.0	32.5	36.4	40.4	1347.9	6.1	12.2	W33X118	B3
		4408.9	1752.0	158.5	177.9	197.3	184071.3	1.86	3.72	W840X176	
44-2533	IZ	82.6	99.7	39.1	42.9	46.7	1074.3	8.79	17.78	W24X229	B1
		4439.0	2533.0	190.7	209.5	228.2	146709.1	2.68	5.42	W610X341	
45-1714	IZ	82.8	67.5	35.1	39.1	43.2	1144.1	6.1	12.2	W27X129	B3
		4451.2	1714.0	171.2	191.0	210.8	156237.2	1.86	3.72	W690X192	
45-2600	IZ	82.9	102.4	35.1	38.7	42.3	1356.7	8.83	17.85	880mm HR King Pile	A9
		4456.9	2600.0	171.4	189.0	206.5	185262.9	2.69	5.44	880mm HR King Pile	
45-1727	IZ	83.2	68.0	34.0	38.0	42.0	1254.5	6.1	12.2	W30X124	B3
		4472.8	1727.0	165.8	185.5	205.1	171310.1	1.86	3.72	W760X185	
45-2441	IZ	83.8	96.1	33.7	37.7	41.7	1275.0	8.83	17.85	W30X173	B2
		4504.8	2441.0	164.3	183.9	203.4	174109.3	2.69	5.44	W760X257	
45-2500	IZ	83.9	98.4	32.1	35.9	39.8	1618.0	8.79	17.78	W40X167	B1
		4509.1	2500.0	156.5	175.5	194.5	220946.3	2.68	5.42	W1000X249	
45-2600	IZ	84.5	102.4	31.5	35.1	38.7	1788.8	8.83	17.85	1080mm HR King Pile	A6
		4543.7	2600.0	154.0	171.6	189.1	244271.1	2.69	5.44	1080mm HR King Pile	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
46-2365	IZ	85.2	93.1	33.0	37.2	41.3	1534.0	8.83	17.85	W36X160	B2
		4578.7	2365.0	161.3	181.5	201.6	209476.0	2.69	5.44	W920X238	
46-2618	IZ	85.4	103.1	54.3	58.0	61.7	764.5	8.79	17.78	W14X370	B1
		4588.9	2618.0	264.9	283.1	301.2	104397.1	2.68	5.42	W360X551	
46-1788	IZ	85.4	70.4	36.6	40.5	44.4	1055.9	6.1	12.2	W24X146	B3
		4592.1	1788.0	178.6	197.6	216.6	144191.3	1.86	3.72	W610X217	
46-2600	IZ	85.7	102.4	31.6	35.2	38.8	1833.5	8.83	17.85	1180mm HR King Pile	A7
		4605.0	2600.0	154.5	172.0	189.6	250374.4	2.69	5.44	1180mm HR King Pile	
46-2390	IZ	85.9	94.1	38.6	42.7	46.8	1103.9	8.83	17.85	W24X207	B2
		4617.1	2390.0	188.5	208.5	228.4	150748.6	2.69	5.44	W610X307	
46-1920	IZ	85.9	75.6	43.4	47.0	50.6	786.6	6.1	12.2	HP18x204	B3
		4617.7	1920.4	211.8	229.5	247.2	107411.2	1.86	3.72	HP460x304	
46-2559	IZ	86.0	100.7	37.4	41.2	45.0	1222.9	8.79	17.78	W27X217	B1
		4626.2	2559.0	182.4	200.9	219.5	167004.5	2.68	5.42	W690X323	
46-2472	IZ	86.1	97.3	50.2	54.2	58.1	737.3	8.83	17.85	W14X311	B2
		4629.4	2472.0	245.2	264.4	283.7	100689.8	2.69	5.44	W360X463	
46-2400	IZ	86.1	94.5	54.9	58.9	63.0	724.1	8.83	17.85	W12X336	B2
		4631.4	2400.0	267.9	287.7	307.6	98879.9	2.69	5.44	W310X500	
46-1749	IZ	86.2	68.9	42.4	46.3	50.3	864.0	6.1	12.2	W18X175	B3
		4636.0	1749.0	206.8	226.2	245.6	117986.7	1.86	3.72	W460X260	
47-2507	IZ	86.5	98.7	33.8	37.7	41.6	1570.9	8.79	17.78	W36X182	B1
		4648.3	2507.0	165.2	184.1	203.1	214519.4	2.68	5.42	W920X271	
47-2352	IZ	87.1	92.6	34.2	38.4	42.5	1472.9	8.83	17.85	W33X169	B2
		4683.2	2352.0	167.2	187.5	207.7	201143.9	2.69	5.44	W840X251	
47-1728	IZ	87.5	68.0	35.4	39.5	43.5	1326.2	6.1	12.2	W30X132	B3
		4704.1	1728.0	173.0	192.6	212.3	181108.8	1.86	3.72	W760X196	
47-2416	IZ	87.6	95.1	36.7	40.7	44.7	1230.7	8.83	17.85	W27X194	B2
		4707.5	2416.0	179.0	198.8	218.5	168057.5	2.69	5.44	W690X289	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
48-1775	IZ	89.0	69.9	40.3	44.2	48.1	1000.5	6.1	12.2	W21X166	B3
		4785.6	1775.0	196.7	215.8	235.0	136630.2	1.86	3.72	W530X248	
48-2535	IZ	89.2	99.8	41.6	45.4	49.2	1175.0	8.79	17.78	W24X250	B1
		4797.0	2535.0	203.0	221.7	240.4	160460.3	2.68	5.42	W610X372	
48-2584	IZ	89.3	101.7	36.2	40.0	43.8	1381.5	8.79	17.78	W30X211	B1
		4800.4	2584.0	177.0	195.3	213.7	188656.3	2.68	5.42	W760X314	
48-1752	IZ	89.9	69.0	34.6	38.5	42.5	1486.3	6.1	12.2	W33X130	B3
		4832.6	1752.0	168.8	188.2	207.6	202968.9	1.86	3.72	W840X193	
48-2366	IZ	90.1	93.1	34.3	38.4	42.6	1629.6	8.83	17.85	W36X170	B2
		4843.0	2366.0	167.6	187.7	207.8	222537.4	2.69	5.44	W920X253	
49-1815	IZ	90.1	71.5	36.1	40.0	43.8	1233.1	6.1	12.2	W27X146	B3
		4845.7	1815.0	176.4	195.1	213.8	168388.3	1.86	3.72	W690X217	
49-2621	IZ	90.5	103.2	57.4	61.2	64.9	828.2	8.79	17.78	W14X398	B1
		4864.6	2621.0	280.5	298.6	316.7	113102.9	2.68	5.42	W360X592	
49-2740	IZ	90.7	107.9	29.3	32.7	36.1	2285.3	8.79	17.78	1280mm HR King Pile	A16
		4876.2	2740.0	143.0	159.6	176.3	312078.7	2.68	5.42	1280mm HR King Pile	
49-2442	IZ	91.0	96.1	35.9	39.9	43.9	1394.8	8.83	17.85	W30X191	B2
		4890.3	2442.0	175.2	194.7	214.2	190476.2	2.69	5.44	W760X284	
49-2600	IZ	91.1	102.4	34.8	38.6	42.3	1532.6	8.79	17.78	W33X201	B1
		4895.6	2600.0	170.1	188.4	206.7	209286.3	2.68	5.42	W840X299	
49-2508	IZ	91.3	98.7	35.2	39.1	43.0	1667.0	8.79	17.78	W36X194	B1
		4911.3	2508.0	172.0	190.9	209.9	227636.8	2.68	5.42	W920X289	
49-2560	IZ	91.9	100.8	39.5	43.3	47.1	1317.3	8.79	17.78	W27X235	B1
		4941.9	2560.0	193.0	211.6	230.1	179884.1	2.68	5.42	W690X350	
50-2476	IZ	92.0	97.5	54.0	57.9	61.8	807.5	8.83	17.85	W14X342	B2
		4945.1	2476.0	263.5	282.7	301.9	110275.6	2.69	5.44	W360X509	
50-1789	IZ	92.3	70.4	39.3	43.2	47.1	1154.1	6.1	12.2	W24X162	B3
		4963.9	1789.0	192.1	211.1	230.0	157604.9	1.86	3.72	W610X241	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
50-2360	IZ	92.5	92.9	34.0	38.1	42.3	1784.8	8.83	17.85	W40X167	B2
		4974.0	2360.0	166.0	186.2	206.4	243727.3	2.69	5.44	W1000X249	
50-2393	IZ	92.8	94.2	41.4	45.5	49.5	1207.0	8.83	17.85	W24X229	B2
		4987.4	2393.0	202.1	222.0	241.9	164832.8	2.69	5.44	W610X341	
51-2500	IZ	93.9	98.4	34.0	37.9	41.8	1829.7	8.79	17.78	W40X183	B1
		5047.8	2500.0	165.9	184.9	203.9	249867.4	2.68	5.42	W1000X272	
51-1764	IZ	94.6	69.4	35.2	39.1	43.0	1681.6	6.1	12.2	W36X135	B3
		5086.1	1764.0	171.7	190.9	210.2	229637.0	1.86	3.72	W920X201	
51-1778	IZ	94.9	70.0	43.0	46.9	50.8	1077.5	6.1	12.2	W21X182	B3
		5100.2	1778.0	210.0	229.1	248.2	147141.4	1.86	3.72	W530X272	
51-2367	IZ	95.5	93.2	35.9	40.0	44.1	1734.4	8.83	17.85	W36X182	B2
		5132.2	2367.0	175.1	195.2	215.4	236852.9	2.69	5.44	W920X271	
52-2419	IZ	95.9	95.2	39.5	43.6	47.6	1362.8	8.83	17.85	W27X217	B2
		5155.3	2419.0	193.1	212.8	232.5	186108.0	2.69	5.44	W690X323	
52-2624	IZ	96.2	103.3	60.6	64.3	68.0	897.3	8.79	17.78	W14X426	B1
		5170.5	2624.0	296.0	314.1	332.2	122541.0	2.68	5.42	W360X634	
52-2740	IZ	96.8	107.9	31.3	34.7	38.1	2439.6	8.79	17.78	1280mm HR King Pile	A20
		5205.4	2740.0	153.0	169.6	186.3	333147.1	2.68	5.42	1280mm HR King Pile	
52-1753	IZ	97.0	69.0	36.5	40.4	44.4	1615.7	6.1	12.2	W33X141	B3
		5216.0	1753.0	178.1	197.5	216.9	220634.8	1.86	3.72	W840X210	
52-1726	IZ	97.2	68.0	38.3	42.3	46.3	1489.9	6.1	12.2	W30X148	B3
		5223.5	1726.0	186.8	206.5	226.2	203455.4	1.86	3.72	W760X220	
52-1816	IZ	97.2	71.5	38.7	42.5	46.3	1341.9	6.1	12.2	W27X161	B3
		5228.0	1816.0	188.8	207.5	226.2	183243.0	1.86	3.72	W690X240	
53-2478	IZ	97.7	97.6	57.4	61.3	65.2	875.1	8.83	17.85	W14X370	B2
		5253.1	2478.0	280.0	299.3	318.5	119508.7	2.69	5.44	W360X551	
53-2538	IZ	97.8	99.9	45.0	48.8	52.7	1306.9	8.79	17.78	W24X279	B1
		5256.9	2538.0	219.8	238.5	257.2	178471.3	2.68	5.42	W610X415	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	ft²/ft (m²/m)	in (mm)	
53-2509	IZ	98.0	98.8	37.2	41.1	45.0	1798.0	8.79	17.78	W36X210	B1
		5269.1	2509.0	181.6	200.5	219.5	245538.1	2.68	5.42	W920X313	
53-2600	IZ	98.1	102.4	30.9	34.5	38.1	2472.7	8.83	17.85	1280mm HR King Pile	A4
		5276.0	2600.0	150.9	168.5	186.0	337664.0	2.69	5.44	1280mm HR King Pile	
53-1787	IZ	98.7	70.4	41.6	45.5	49.4	1246.0	6.1	12.2	W24X176	B3
		5309.1	1787.0	203.3	222.3	241.3	170156.7	1.86	3.72	W610X262	
53-2444	IZ	98.8	96.2	38.4	42.3	46.3	1529.0	8.83	17.85	W30X211	B2
		5313.1	2444.0	187.3	206.8	226.2	208804.7	2.69	5.44	W760X314	
53-2582	IZ	99.1	101.7	39.1	42.8	46.6	1550.5	8.79	17.78	W30X235	B1
		5326.6	2582.0	190.8	209.2	227.6	211732.5	2.68	5.42	W760X350	
54-2601	IZ	99.4	102.4	37.2	40.9	44.7	1687.4	8.79	17.78	W33X221	B1
		5346.4	2601.0	181.5	199.8	218.0	230428.1	2.68	5.42	W840X329	
54-2395	IZ	99.7	94.3	44.0	48.1	52.2	1313.5	8.83	17.85	W24X250	B2
		5362.4	2395.0	215.0	234.9	254.8	179372.7	2.69	5.44	W610X372	
54-2562	IZ	99.8	100.9	42.1	45.9	49.7	1445.3	8.79	17.78	W27X258	B1
		5363.4	2562.0	205.7	224.3	242.8	197374.5	2.68	5.42	W690X384	
54-2460	IZ	100.3	96.9	36.9	40.8	44.8	1687.8	8.83	17.85	W33X201	B2
		5391.3	2460.0	180.0	199.3	218.7	230477.7	2.69	5.44	W840X299	
54-2600	IZ	100.6	102.4	34.5	38.3	42.0	1944.6	8.79	17.78	W40X199	B1
		5408.3	2600.0	168.6	186.9	205.2	265546.2	2.68	5.42	W1000X296	
54-2368	IZ	100.6	93.2	37.3	41.5	45.6	1836.1	8.83	17.85	W36X194	B2
		5409.6	2368.0	182.3	202.5	222.6	250736.5	2.69	5.44	W920X289	
55-2628	IZ	101.3	103.5	63.9	67.6	71.3	963.2	8.79	17.78	W14X455	B1
		5446.4	2628.0	312.0	330.1	348.1	131531.1	2.68	5.42	W360X677	
55-2420	IZ	102.1	95.3	41.9	45.9	49.9	1462.6	8.83	17.85	W27X235	B2
		5486.9	2420.0	204.4	224.1	243.7	199724.9	2.69	5.44	W690X350	
55-1779	IZ	102.1	70.0	46.3	50.2	54.1	1176.3	6.1	12.2	W21X201	B3
		5491.6	1779.0	225.8	244.9	264.0	160630.3	1.86	3.72	W530X300	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
55-2740	IZ	102.6	107.9	35.0	38.4	41.8	2170.8	8.79	17.78	1080mm HR King Pile	A22
		5514.1	2740.0	170.9	187.5	204.1	296439.6	2.68	5.42	1080mm HR King Pile	
55-1869	IZ	102.9	73.6	57.4	61.1	64.8	861.2	6.1	12.2	W14X283	B3
		5534.2	1869.0	280.0	298.2	316.4	117602.1	1.86	3.72	W360X421	
55-2481	IZ	103.0	97.7	60.7	64.7	68.6	942.4	8.83	17.85	W14X398	B2
		5534.9	2481.0	296.5	315.7	334.9	128687.4	2.69	5.44	W360X592	
55-2360	IZ	103.1	92.9	36.0	40.2	44.3	2009.1	8.83	17.85	W40X183	B2
		5542.7	2360.0	176.0	196.2	216.3	274364.1	2.69	5.44	W1000X272	
56-1754	IZ	103.9	69.1	38.4	42.3	46.3	1740.6	6.1	12.2	W33X152	B3
		5586.1	1754.0	187.4	206.8	226.1	237690.0	1.86	3.72	W840X226	
56-2740	IZ	104.0	107.9	35.1	38.5	41.9	2226.6	8.79	17.78	1180mm HR King Pile	A23
		5592.5	2740.0	171.3	187.9	204.5	304065.5	2.68	5.42	1180mm HR King Pile	
56-2600	IZ	104.6	102.4	33.1	36.7	40.3	2635.3	8.83	17.85	1280mm HR King Pile	A8
		5622.9	2600.0	161.4	179.0	196.6	359866.8	2.69	5.44	1280mm HR King Pile	
56-1818	IZ	104.9	71.6	41.5	45.3	49.1	1457.6	6.1	12.2	W27X178	B3
		5638.7	1818.0	202.4	221.1	239.8	199044.7	1.86	3.72	W690X265	
57-1789	IZ	105.2	70.4	44.3	48.2	52.1	1339.2	6.1	12.2	W24X192	B3
		5653.3	1789.0	216.2	235.2	254.2	182885.3	1.86	3.72	W610X285	
57-1764	IZ	105.6	69.4	37.8	41.7	45.7	1894.3	6.1	12.2	W36X150	B3
		5679.1	1764.0	184.6	203.8	223.1	258681.9	1.86	3.72	W920X223	
57-2540	IZ	106.1	100.0	48.1	52.0	55.8	1439.1	8.79	17.78	W24X306	B1
		5704.6	2540.0	235.0	253.7	272.4	196522.5	2.68	5.42	W610X455	
57-2500	IZ	106.4	98.4	37.4	41.3	45.2	2094.3	8.79	17.78	W40X211	B1
		5719.8	2500.0	182.6	201.6	220.6	285991.6	2.68	5.42	W1000X314	
58-1760	IZ	107.2	69.3	37.7	41.7	45.6	2046.7	6.1	12.2	W40X149	B3
		5762.7	1760.0	184.1	203.4	222.7	279492.0	1.86	3.72	W1000X222	
58-2369	IZ	107.6	93.3	39.4	43.6	47.7	1974.9	8.83	17.85	W36X210	B2
		5787.2	2369.0	192.5	212.6	232.7	269685.8	2.69	5.44	W920X313	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
58-2618	IZ	107.7	103.1	37.9	41.6	45.4	1933.0	8.79	17.78	W36X230	B1
		5788.8	2618.0	185.2	203.3	221.4	263968.9	2.68	5.42	W920X342	
58-2603	IZ	107.8	102.5	39.5	43.2	47.0	1841.2	8.79	17.78	W33X241	B1
		5793.5	2603.0	192.9	211.1	229.3	251437.1	2.68	5.42	W840X359	
58-2564	IZ	107.8	100.9	44.9	48.7	52.5	1579.0	8.79	17.78	W27X281	B1
		5796.2	2564.0	219.4	237.9	256.4	215619.7	2.68	5.42	W690X419	
58-2585	IZ	108.4	101.8	42.1	45.9	49.7	1713.6	8.79	17.78	W30X261	B1
		5828.2	2585.0	205.7	224.1	242.5	234002.0	2.68	5.42	W760X389	
58-2398	IZ	108.7	94.4	47.7	51.7	55.8	1452.9	8.83	17.85	W24X279	B2
		5844.2	2398.0	232.8	252.6	272.5	198411.6	2.69	5.44	W610X415	
59-1841	IZ	108.7	72.5	40.1	43.8	47.6	1654.8	6.1	12.2	W30X173	B3
		5846.7	1841.0	195.6	214.1	232.5	225973.6	1.86	3.72	W760X257	
59-2484	IZ	108.8	97.8	64.1	68.0	71.9	1015.2	8.83	17.85	W14X426	B2
		5849.7	2484.0	312.9	332.0	351.2	138638.6	2.69	5.44	W360X634	
59-2508	IZ	108.9	98.7	39.8	43.7	47.5	2021.6	8.79	17.78	W36X232	B1
		5855.1	2508.0	194.2	213.1	232.1	276066.2	2.68	5.42	W920X345	
59-2461	IZ	109.1	96.9	39.3	43.3	47.3	1851.3	8.83	17.85	W33X221	B2
		5865.7	2461.0	192.0	211.4	230.7	252813.6	2.69	5.44	W840X329	
59-2442	IZ	109.1	96.1	41.3	45.3	49.3	1707.8	8.83	17.85	W30X235	B2
		5867.2	2442.0	201.9	221.4	240.9	233220.3	2.69	5.44	W760X350	
59-1872	IZ	109.6	73.7	61.8	65.5	69.2	938.5	6.1	12.2	W14X311	B3
		5892.6	1872.0	301.8	320.0	338.1	128163.3	1.86	3.72	W360X463	
59-2460	IZ	109.8	96.9	36.5	40.5	44.5	2123.2	8.83	17.85	W40X199	B2
		5905.1	2460.0	178.4	197.8	217.1	289939.4	2.69	5.44	W1000X296	
59-2422	IZ	110.3	95.4	44.6	48.6	52.7	1597.9	8.83	17.85	W27X258	B2
		5929.6	2422.0	217.8	237.5	257.1	218209.9	2.69	5.44	W690X384	
59-2632	IZ	110.4	103.6	69.0	72.7	76.4	1081.9	8.79	17.78	W14X500	B1
		5933.4	2632.0	336.9	354.9	373.0	147742.7	2.68	5.42	W360X744	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
59-1800	IZ	110.5	70.9	68.5	72.4	76.2	928.9	6.1	12.2	W12X336	B3
		5941.4	1800.0	334.4	353.3	372.1	126849.1	1.86	3.72	W310X500	
60-2600	IZ	110.9	102.4	36.5	40.3	44.0	2162.1	8.79	17.78	W40X215	B1
		5964.8	2600.0	178.3	196.5	214.8	295257.1	2.68	5.42	W1000X321	
60-2600	IZ	111.1	102.4	36.9	40.5	44.1	2352.0	8.83	17.85	1080mm HR King Pile	A10
		5974.4	2600.0	180.2	197.8	215.4	321182.8	2.69	5.44	1080mm HR King Pile	
60-1790	IZ	111.8	70.5	46.9	50.7	54.6	1437.2	6.1	12.2	W24X207	B3
		6011.0	1790.0	228.8	247.8	266.8	196260.1	1.86	3.72	W610X307	
60-1765	IZ	112.0	69.5	39.5	43.5	47.4	2018.1	6.1	12.2	W36X160	B3
		6024.0	1765.0	192.9	212.2	231.4	275596.2	1.86	3.72	W920X238	
61-2600	IZ	112.6	102.4	37.0	40.6	44.2	2410.8	8.83	17.85	1180mm HR King Pile	A11
		6055.2	2600.0	180.7	198.2	215.8	329219.3	2.69	5.44	1180mm HR King Pile	
61-1816	IZ	113.9	71.5	44.2	48.0	51.8	1601.0	6.1	12.2	W27X194	B3
		6124.3	1816.0	215.6	234.3	253.0	218636.3	1.86	3.72	W690X289	
61-2488	IZ	114.1	98.0	67.5	71.5	75.4	1084.6	8.83	17.85	W14X455	B2
		6132.9	2488.0	329.7	348.9	368.0	148108.7	2.69	5.44	W360X677	
62-2619	IZ	114.5	103.1	39.7	43.4	47.1	2063.9	8.79	17.78	W36X245	B1
		6153.9	2619.0	193.8	211.9	230.0	281850.1	2.68	5.42	W920X365	
62-1752	IZ	114.7	69.0	41.2	45.2	49.1	1939.8	6.1	12.2	W33X169	B3
		6167.7	1752.0	201.1	220.4	239.8	264901.2	1.86	3.72	W840X251	
62-2543	IZ	115.0	100.1	51.6	55.4	59.3	1582.0	8.79	17.78	W24X335	B1
		6181.1	2543.0	252.0	270.7	289.4	216029.7	2.68	5.42	W610X498	
63-2567	IZ	116.2	101.1	47.9	51.7	55.5	1720.2	8.79	17.78	W27X307	B1
		6247.7	2567.0	233.8	252.3	270.8	234912.7	2.68	5.42	W690X457	
63-2360	IZ	116.3	92.9	39.7	43.8	47.9	2289.4	8.83	17.85	W40X211	B2
		6252.6	2360.0	193.6	213.8	234.0	312631.2	2.69	5.44	W1000X314	
63-2502	IZ	117.1	98.5	40.3	44.1	48.0	2324.5	8.79	17.78	W40X235	B1
		6298.3	2502.0	196.6	215.5	234.5	317433.0	2.68	5.42	W1000X350	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
63-1876	IZ	117.4	73.9	66.7	70.4	74.2	1030.7	6.1	12.2	W14X342	B3
		6311.9	1876.0	325.9	344.0	362.1	140756.4	1.86	3.72	W360X509	
63-2400	IZ	117.4	94.5	51.0	55.0	59.1	1592.7	8.83	17.85	W24X306	B2
		6313.5	2400.0	248.9	268.8	288.6	217499.1	2.69	5.44	W610X455	
63-2478	IZ	117.5	97.6	40.1	44.0	48.0	2109.7	8.83	17.85	W36X230	B2
		6317.9	2478.0	195.8	215.0	234.2	288095.8	2.69	5.44	W920X342	
63-2463	IZ	117.9	97.0	41.8	45.7	49.7	2013.8	8.83	17.85	W33X241	B2
		6336.4	2463.0	204.0	223.3	242.7	274998.6	2.69	5.44	W840X359	
64-2601	IZ	118.0	102.4	42.1	45.9	49.6	2037.6	8.79	17.78	W33X263	B1
		6345.6	2601.0	205.7	223.9	242.2	278254.2	2.68	5.42	W840X392	
64-1842	IZ	118.3	72.5	43.0	46.8	50.6	1813.5	6.1	12.2	W30X191	B3
		6358.0	1842.0	210.0	228.4	246.9	247643.5	1.86	3.72	W760X284	
64-1766	IZ	118.6	69.5	41.2	45.2	49.1	2146.0	6.1	12.2	W36X170	B3
		6377.8	1766.0	201.3	220.5	239.7	293057.7	1.86	3.72	W920X253	
64-2424	IZ	118.7	95.4	47.6	51.6	55.6	1739.1	8.83	17.85	W27X281	B2
		6384.2	2424.0	232.2	251.9	271.5	237491.6	2.69	5.44	W690X419	
64-2445	IZ	118.9	96.3	44.6	48.6	52.6	1880.1	8.83	17.85	W30X261	B2
		6394.5	2445.0	217.7	237.2	256.7	256738.6	2.69	5.44	W760X389	
64-2368	IZ	119.1	93.2	42.2	46.3	50.4	2211.7	8.83	17.85	W36X232	B2
		6405.7	2368.0	205.9	226.0	246.1	302029.1	2.69	5.44	W920X345	
64-2510	IZ	119.2	98.8	42.8	46.6	50.5	2230.7	8.79	17.78	W36X256	B1
		6406.4	2510.0	208.8	227.7	246.6	304622.8	2.68	5.42	W920X381	
65-2587	IZ	120.3	101.9	45.7	49.5	53.2	1925.2	8.79	17.78	W30X292	B1
		6467.5	2587.0	223.2	241.5	259.9	262903.7	2.68	5.42	W760X434	
65-2637	IZ	120.5	103.8	74.5	78.2	81.9	1219.3	8.79	17.78	W14X550	B1
		6478.7	2637.0	363.6	381.6	399.6	166501.8	2.68	5.42	W360X818	
65-2460	IZ	120.7	96.9	38.6	42.6	46.6	2353.1	8.83	17.85	W40X215	B2
		6491.7	2460.0	188.6	208.0	227.3	321341.2	2.69	5.44	W1000X321	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
65-1793	IZ	121.0	70.6	50.6	54.4	58.3	1574.3	6.1	12.2	W24X229	B3
		6504.7	1793.0	246.8	265.8	284.7	214981.2	1.86	3.72	W610X341	
65-2620	IZ	121.1	103.1	41.4	45.1	48.8	2194.9	8.79	17.78	W36X260	B1
		6509.0	2620.0	202.1	220.2	238.3	299739.0	2.68	5.42	W920X387	
66-1760	IZ	122.1	69.3	40.8	44.8	48.7	2355.8	6.1	12.2	W40X167	B3
		6565.5	1760.0	199.3	218.6	237.8	321711.9	1.86	3.72	W1000X249	
66-2492	IZ	123.4	98.1	72.9	76.8	80.7	1209.8	8.83	17.85	W14X500	B2
		6634.7	2492.0	356.0	375.1	394.2	165204.5	2.69	5.44	W360X744	
67-2600	IZ	123.9	102.4	38.2	42.0	45.7	2658.9	8.79	17.78	W44X230	B1
		6662.4	2600.0	186.7	205.0	223.3	363098.1	2.68	5.42	W1100X343	
67-2479	IZ	124.7	97.6	42.0	45.9	49.8	2247.9	8.83	17.85	W36X245	B2
		6702.6	2479.0	204.9	224.1	243.3	306977.0	2.69	5.44	W920X365	
67-1819	IZ	125.0	71.6	48.0	51.8	55.6	1776.2	6.1	12.2	W27X217	B3
		6719.0	1819.0	234.2	252.9	271.6	242557.3	1.86	3.72	W690X323	
67-1878	IZ	125.0	73.9	71.2	74.9	78.6	1119.7	6.1	12.2	W14X370	B3
		6721.2	1878.0	347.7	365.8	383.8	152906.8	1.86	3.72	W360X551	
68-2547	IZ	125.6	100.3	55.8	59.6	63.4	1758.4	8.79	17.78	W24X370	B1
		6754.6	2547.0	272.3	290.9	309.6	240126.5	2.68	5.42	W610X551	
68-1767	IZ	125.8	69.6	43.3	47.2	51.2	2286.2	6.1	12.2	W36X182	B3
		6764.8	1767.0	211.4	230.6	249.8	312194.3	1.86	3.72	W920X271	
68-2570	IZ	126.2	101.2	51.3	55.1	58.8	1892.7	8.79	17.78	W27X336	B1
		6783.8	2570.0	250.3	268.8	287.3	258463.8	2.68	5.42	W690X500	
68-2600	IZ	126.6	102.4	40.5	44.2	48.0	2492.5	8.79	17.78	W40X249	B1
		6807.4	2600.0	197.6	215.9	234.1	340371.8	2.68	5.42	W1000X371	
68-2403	IZ	126.7	94.6	54.7	58.7	62.8	1743.7	8.83	17.85	W24X335	B2
		6813.1	2403.0	266.9	286.7	306.5	238116.7	2.69	5.44	W610X498	
69-2427	IZ	127.6	95.6	50.7	54.7	58.7	1888.3	8.83	17.85	W27X307	B2
		6858.3	2427.0	247.4	267.1	286.7	257870.5	2.69	5.44	W690X457	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
69-2362	IZ	127.7	93.0	42.7	46.8	50.9	2533.1	8.83	17.85	W40X235	B2
		6863.4	2362.0	208.4	228.6	248.7	345913.7	2.69	5.44	W1000X350	
69-2740	IZ	127.9	107.9	36.4	39.8	43.2	3222.6	8.79	17.78	1280mm HR King Pile	A24
		6876.2	2740.0	177.9	194.5	211.1	440074.1	2.68	5.42	1280mm HR King Pile	
69-2503	IZ	128.7	98.5	43.8	47.7	51.5	2573.0	8.79	17.78	W40X264	B1
		6916.7	2503.0	213.7	232.7	251.7	351366.0	2.68	5.42	W1000X393	
69-1844	IZ	128.7	72.6	46.3	50.0	53.8	1990.9	6.1	12.2	W30X211	B3
		6917.9	1844.0	225.9	244.4	262.8	271873.7	1.86	3.72	W760X314	
69-2461	IZ	128.7	96.9	44.6	48.5	52.5	2221.5	8.83	17.85	W33X263	B2
		6918.1	2461.0	217.6	236.9	256.3	303360.4	2.69	5.44	W840X392	
70-2604	IZ	129.3	102.5	45.4	49.1	52.8	2252.4	8.79	17.78	W33X291	B1
		6951.1	2604.0	221.4	239.7	257.9	307585.1	2.68	5.42	W840X433	
70-2370	IZ	130.0	93.3	45.3	49.4	53.6	2433.0	8.83	17.85	W36X256	B2
		6987.4	2370.0	221.3	241.4	261.5	332250.7	2.69	5.44	W920X381	
70-1795	IZ	130.3	70.7	54.1	58.0	61.8	1715.9	6.1	12.2	W24X250	B3
		7005.2	1795.0	264.0	283.0	301.9	234325.4	1.86	3.72	W610X372	
70-2622	IZ	130.3	103.2	43.8	47.5	51.2	2381.0	8.79	17.78	W36X280	B1
		7007.4	2622.0	213.6	231.7	249.8	325142.6	2.68	5.42	W920X417	
70-1860	IZ	130.5	73.2	44.2	48.0	51.7	2196.8	6.1	12.2	W33X201	B3
		7017.4	1860.0	216.0	234.2	252.5	299995.6	1.86	3.72	W840X299	
71-2447	IZ	131.4	96.3	48.4	52.3	56.3	2103.7	8.83	17.85	W30X292	B2
		7067.0	2447.0	236.1	255.6	275.0	287275.3	2.69	5.44	W760X434	
71-2480	IZ	131.6	97.6	43.8	47.7	51.6	2386.3	8.83	17.85	W36X260	B2
		7076.3	2480.0	213.7	232.9	252.1	325865.7	2.69	5.44	W920X387	
71-1881	IZ	132.0	74.1	75.6	79.3	83.0	1208.0	6.1	12.2	W14X398	B3
		7095.1	1881.0	369.2	387.3	405.3	164960.0	1.86	3.72	W360X592	
71-2642	IZ	132.1	104.0	81.0	84.7	88.4	1381.1	8.79	17.78	W14X605	B1
		7103.5	2642.0	395.6	413.6	431.6	188599.0	2.68	5.42	W360X900	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
71-2590	IZ	132.5	102.0	49.6	53.4	57.1	2147.0	8.79	17.78	W30X326	B1
		7125.0	2590.0	242.3	260.7	279.0	293193.1	2.68	5.42	W760X484	
71-1768	IZ	132.7	69.6	45.3	49.2	53.1	2422.0	6.1	12.2	W36X194	B3
		7135.9	1768.0	221.0	240.2	259.4	330746.9	1.86	3.72	W920X289	
72-1820	IZ	133.2	71.7	51.0	54.9	58.7	1908.6	6.1	12.2	W27X235	B3
		7160.2	1820.0	249.2	267.9	286.5	260632.2	1.86	3.72	W690X350	
72-2497	IZ	133.9	98.3	78.7	82.6	86.5	1354.6	8.83	17.85	W14X550	B2
		7197.7	2497.0	384.2	403.3	422.3	184980.4	2.69	5.44	W360X818	
72-2460	IZ	134.1	96.9	40.5	44.4	48.4	2878.2	8.83	17.85	W44X230	B2
		7211.8	2460.0	197.5	216.9	236.3	393043.0	2.69	5.44	W1100X343	
72-2504	IZ	134.5	98.6	45.6	49.4	53.3	2701.0	8.79	17.78	W40X278	B1
		7232.2	2504.0	222.4	241.4	260.4	368844.3	2.68	5.42	W1000X415	
73-1760	IZ	136.3	69.3	43.6	47.5	51.5	2656.7	6.1	12.2	W40X183	B3
		7329.2	1760.0	212.6	231.9	251.2	362793.0	1.86	3.72	W1000X272	
74-2572	IZ	136.9	101.3	55.0	58.8	62.6	2079.8	8.79	17.78	W27X368	B1
		7357.7	2572.0	268.7	287.2	305.7	284009.0	2.68	5.42	W690X548	
74-2460	IZ	137.3	96.9	42.8	46.8	50.7	2702.3	8.83	17.85	W40X249	B2
		7380.5	2460.0	209.0	228.4	247.7	369023.3	2.69	5.44	W1000X371	
74-2600	IZ	137.3	102.4	38.4	42.0	45.6	3460.4	8.83	17.85	1280mm HR King Pile	A12
		7383.6	2600.0	187.7	205.2	222.8	472551.5	2.69	5.44	1280mm HR King Pile	
74-2407	IZ	137.9	94.8	59.1	63.1	67.2	1930.1	8.83	17.85	W24X370	B2
		7414.3	2407.0	288.3	308.1	327.9	263578.3	2.69	5.44	W610X551	
74-2430	IZ	138.0	95.7	54.3	58.3	62.3	2070.5	8.83	17.85	W27X336	B2
		7421.3	2430.0	264.9	284.5	304.1	282750.1	2.69	5.44	W690X500	
75-2623	IZ	138.9	103.3	46.1	49.8	53.5	2550.7	8.79	17.78	W36X300	B1
		7466.7	2623.0	224.9	243.0	261.1	348321.6	2.68	5.42	W920X446	
75-2602	IZ	139.3	102.4	43.7	47.4	51.1	2764.3	8.79	17.78	W40X277	B1
		7489.8	2602.0	213.1	231.4	249.6	377485.5	2.68	5.42	W1000X412	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
75-1884	IZ	139.7	74.2	80.0	83.7	87.4	1303.6	6.1	12.2	W14X426	B3
		7511.5	1884.0	390.7	408.8	426.8	178022.7	1.86	3.72	W360X634	
75-2363	IZ	139.8	93.0	46.4	50.5	54.7	2796.2	8.83	17.85	W40X264	B2
		7516.6	2363.0	226.6	246.7	266.9	381845.1	2.69	5.44	W1000X393	
76-2606	IZ	140.4	102.6	48.5	52.2	55.9	2467.6	8.79	17.78	W33X318	B1
		7547.1	2606.0	236.6	254.8	273.1	336976.1	2.68	5.42	W840X473	
76-2464	IZ	140.5	97.0	48.0	51.9	55.9	2448.2	8.83	17.85	W33X291	B2
		7555.4	2464.0	234.2	253.5	272.8	334327.3	2.69	5.44	W840X433	
76-2482	IZ	141.4	97.7	46.3	50.2	54.1	2582.6	8.83	17.85	W36X280	B2
		7600.9	2482.0	225.8	245.0	264.2	352681.1	2.69	5.44	W920X417	
76-2600	IZ	141.4	102.4	42.0	45.8	49.5	3062.6	8.79	17.78	W44X262	B1
		7604.1	2600.0	205.2	223.4	241.7	418224.8	2.68	5.42	W1100X390	
76-1769	IZ	142.1	69.6	48.1	52.0	55.9	2607.5	6.1	12.2	W36X210	B3
		7641.2	1769.0	234.6	253.8	273.0	356078.2	1.86	3.72	W920X313	
76-1861	IZ	142.2	73.3	47.5	51.2	55.0	2412.8	6.1	12.2	W33X221	B3
		7644.9	1861.0	231.9	250.1	268.4	329495.3	1.86	3.72	W840X329	
77-1798	IZ	142.2	70.8	58.9	62.8	66.6	1901.2	6.1	12.2	W24X279	B3
		7647.3	1798.0	287.6	306.5	325.4	259626.0	1.86	3.72	W610X415	
77-1842	IZ	142.4	72.5	50.3	54.0	57.8	2228.4	6.1	12.2	W30X235	B3
		7655.6	1842.0	245.4	263.8	282.2	304310.8	1.86	3.72	W760X350	
77-1860	IZ	143.4	73.2	43.8	47.5	51.3	2772.7	6.1	12.2	W40X199	B3
		7711.6	1860.0	213.9	232.1	250.4	378638.4	1.86	3.72	W1000X296	
78-1822	IZ	144.1	71.7	54.7	58.5	62.3	2088.0	6.1	12.2	W27X258	B3
		7748.3	1822.0	267.0	285.7	304.3	285137.6	1.86	3.72	W690X384	
78-2593	IZ	144.3	102.1	53.2	57.0	60.7	2365.5	8.79	17.78	W30X357	B1
		7755.9	2593.0	259.9	278.2	296.5	323033.1	2.68	5.42	W760X531	
78-2450	IZ	144.3	96.5	52.5	56.5	60.5	2337.9	8.83	17.85	W30X326	B2
		7758.6	2450.0	256.3	275.8	295.2	319265.7	2.69	5.44	W760X484	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
78-2648	IZ	144.5	104.3	87.5	91.2	94.9	1564.0	8.79	17.78	W14X665	B1
		7766.4	2648.0	427.3	445.3	463.2	213576.5	2.68	5.42	W360X990	
78-2502	IZ	145.9	98.5	85.6	89.5	93.4	1525.2	8.83	17.85	W14X605	B2
		7844.7	2502.0	417.9	437.0	456.0	208277.1	2.69	5.44	W360X900	
79-2364	IZ	146.0	93.1	48.3	52.4	56.5	2931.7	8.83	17.85	W40X278	B2
		7849.9	2364.0	235.8	255.9	276.1	400345.6	2.69	5.44	W1000X415	
79-1888	IZ	146.7	74.3	84.5	88.2	91.9	1394.4	6.1	12.2	W14X455	B3
		7884.8	1888.0	412.8	430.8	448.7	190419.0	1.86	3.72	W360X677	
79-2602	IZ	146.7	102.4	46.1	49.8	53.5	2922.2	8.79	17.78	W40X297	B1
		7886.5	2602.0	224.9	243.2	261.4	399056.9	2.68	5.42	W1000X443	
80-2432	IZ	149.3	95.7	58.2	62.3	66.3	2268.2	8.83	17.85	W27X368	B2
		8024.5	2432.0	284.4	304.0	323.5	309745.8	2.69	5.44	W690X548	
81-2483	IZ	150.4	97.8	48.7	52.6	56.6	2761.9	8.83	17.85	W36X300	B2
		8084.8	2483.0	237.8	256.9	276.1	377156.0	2.69	5.44	W920X446	
81-2462	IZ	150.7	96.9	46.2	50.1	54.1	2989.4	8.83	17.85	W40X277	B2
		8099.7	2462.0	225.4	244.8	264.1	408224.3	2.69	5.44	W1000X412	
81-2622	IZ	151.1	103.2	49.3	53.0	56.7	2801.0	8.79	17.78	W36X328	B1
		8121.0	2622.0	240.6	258.7	276.8	382499.3	2.68	5.42	W920X488	
82-2466	IZ	152.2	97.1	51.2	55.2	59.2	2675.5	8.83	17.85	W33X318	B2
		8182.9	2466.0	250.2	269.5	288.8	365365.2	2.69	5.44	W840X473	
82-2460	IZ	152.6	96.9	44.4	48.4	52.4	3304.9	8.83	17.85	W44X262	B2
		8205.6	2460.0	217.0	236.4	255.7	451307.0	2.69	5.44	W1100X390	
82-1878	IZ	153.1	73.9	48.4	52.1	55.8	2748.7	6.1	12.2	W36X230	B3
		8231.5	1878.0	236.5	254.6	272.6	375355.6	1.86	3.72	W920X342	
83-1863	IZ	153.7	73.3	50.7	54.5	58.2	2627.0	6.1	12.2	W33X241	B3
		8266.0	1863.0	247.7	265.9	284.1	358743.0	1.86	3.72	W840X359	
83-1800	IZ	153.9	70.9	63.3	67.2	71.0	2087.1	6.1	12.2	W24X306	B3
		8273.1	1800.0	309.1	328.0	346.8	285008.0	1.86	3.72	W610X455	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
83-1760	IZ	154.0	69.3	48.4	52.3	56.3	3032.4	6.1	12.2	W40X211	B3
		8282.1	1760.0	236.3	255.6	274.9	414105.8	1.86	3.72	W1000X314	
83-2609	IZ	154.7	102.7	52.6	56.3	60.1	2749.0	8.79	17.78	W33X354	B1
		8314.5	2609.0	256.8	275.0	293.2	375401.5	2.68	5.42	W840X527	
84-1824	IZ	155.3	71.8	58.6	62.4	66.2	2275.1	6.1	12.2	W27X281	B3
		8351.8	1824.0	286.1	304.7	323.3	310688.7	1.86	3.72	W690X419	
84-1845	IZ	155.4	72.6	54.5	58.3	62.1	2455.8	6.1	12.2	W30X261	B3
		8352.7	1845.0	266.2	284.6	303.0	335361.7	1.86	3.72	W760X389	
84-2602	IZ	155.8	102.4	45.4	49.1	52.9	3398.7	8.79	17.78	W44X290	B1
		8377.7	2602.0	221.6	239.8	258.1	464125.4	2.68	5.42	W1100X433	
84-2508	IZ	156.4	98.7	51.3	55.2	59.1	3188.6	8.79	17.78	W40X327	B1
		8406.1	2508.0	250.6	269.5	288.4	435436.7	2.68	5.42	W1000X486	
84-2453	IZ	156.6	96.6	56.3	60.3	64.3	2568.7	8.83	17.85	W30X357	B2
		8422.0	2453.0	274.9	294.3	313.7	350776.8	2.69	5.44	W760X531	
84-2596	IZ	156.7	102.2	57.3	61.0	64.8	2600.4	8.79	17.78	W30X391	B1
		8424.9	2596.0	279.6	297.8	316.1	355110.3	2.68	5.42	W760X582	
85-1768	IZ	157.6	69.6	51.7	55.7	59.6	2925.1	6.1	12.2	W36X232	B3
		8471.8	1768.0	252.5	271.7	290.9	399446.5	1.86	3.72	W920X345	
85-2509	IZ	157.7	98.8	51.9	55.8	59.7	3216.6	8.79	17.78	W40X331	B1
		8479.8	2509.0	253.6	272.5	291.4	439251.2	2.68	5.42	W1000X494	
85-1860	IZ	157.9	73.2	46.6	50.3	54.0	3076.8	6.1	12.2	W40X215	B3
		8488.3	1860.0	227.4	245.6	263.9	420169.7	1.86	3.72	W1000X321	
85-2462	IZ	158.4	96.9	48.7	52.7	56.6	3156.3	8.83	17.85	W40X297	B2
		8518.2	2462.0	237.9	257.2	276.6	431022.3	2.69	5.44	W1000X443	
85-2508	IZ	158.7	98.7	92.4	96.3	100.2	1718.0	8.83	17.85	W14X665	B2
		8531.0	2508.0	451.4	470.3	489.3	234601.8	2.69	5.44	W360X990	
85-2654	IZ	158.8	104.5	94.6	98.3	101.9	1779.1	8.79	17.78	W14X730	B1
		8539.7	2654.0	461.9	479.8	497.6	242954.4	2.68	5.42	W360X1086	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
86-1892	IZ	159.0	74.5	91.6	95.3	98.9	1558.6	6.1	12.2	W14X500	B3
		8548.1	1892.0	447.2	465.1	483.1	212846.7	1.86	3.72	W360X744	
86-2604	IZ	159.9	102.5	49.2	52.9	56.6	3210.3	8.79	17.78	W40X324	B1
		8596.0	2604.0	240.1	258.3	276.6	438397.1	2.68	5.42	W1000X483	
87-1879	IZ	162.5	74.0	50.9	54.6	58.3	2930.7	6.1	12.2	W36X245	B3
		8738.4	1879.0	248.5	266.5	284.6	400219.6	1.86	3.72	W920X365	
88-2482	IZ	163.2	97.7	52.1	56.0	59.9	3026.3	8.83	17.85	W36X328	B2
		8774.4	2482.0	254.3	273.5	292.7	413273.1	2.69	5.44	W920X488	
88-2625	IZ	163.7	103.3	52.8	56.5	60.2	3060.6	8.79	17.78	W36X359	B1
		8799.1	2625.0	257.6	275.7	293.8	417956.0	2.68	5.42	W920X534	
89-1803	IZ	166.2	71.0	68.2	72.1	75.9	2287.5	6.1	12.2	W24X335	B3
		8937.7	1803.0	333.0	351.8	370.6	312374.3	1.86	3.72	W610X498	
90-1827	IZ	167.0	71.9	62.7	66.5	70.3	2472.5	6.1	12.2	W27X307	B3
		8979.8	1827.0	306.2	324.8	343.4	337640.0	1.86	3.72	W690X457	
90-2469	IZ	167.2	97.2	55.6	59.6	63.5	2972.6	8.83	17.85	W33X354	B2
		8990.8	2469.0	271.5	290.8	310.1	405934.9	2.69	5.44	W840X527	
90-2611	IZ	167.7	102.8	56.4	60.2	63.9	3014.1	8.79	17.78	W33X387	B1
		9016.6	2611.0	275.5	293.7	311.9	411606.0	2.68	5.42	W840X576	
90-2462	IZ	167.8	96.9	48.0	52.0	55.9	3659.9	8.83	17.85	W44X290	B2
		9021.5	2462.0	234.4	253.7	273.1	499790.8	2.69	5.44	W1100X433	
90-1861	IZ	168.1	73.3	54.4	58.1	61.9	2902.3	6.1	12.2	W33X263	B3
		9038.5	1861.0	265.6	283.9	302.1	396338.8	1.86	3.72	W840X392	
91-2368	IZ	169.1	93.2	54.4	58.5	62.6	3447.8	8.83	17.85	W40X327	B2
		9089.2	2368.0	265.5	285.7	305.8	470821.7	2.69	5.44	W1000X486	
91-1762	IZ	169.2	69.4	52.4	56.4	60.3	3358.3	6.1	12.2	W40X235	B3
		9099.3	1762.0	256.1	275.3	294.6	458606.5	1.86	3.72	W1000X350	
91-2456	IZ	169.7	96.7	60.6	64.5	68.5	2816.7	8.83	17.85	W30X391	B2
		9125.7	2456.0	295.7	315.1	334.4	384648.6	2.69	5.44	W760X582	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
92-2369	IZ	170.5	93.3	55.0	59.2	63.3	3477.2	8.83	17.85	W40X331	B2
		9166.9	2369.0	268.7	288.9	309.0	474846.8	2.69	5.44	W1000X494	
92-2671	IZ	171.2	105.2	103.0	106.7	110.3	1954.7	8.79	17.78	W14X808	B1
		9204.5	2671.0	503.0	520.8	538.6	266930.3	2.68	5.42	W360X1202	
92-1880	IZ	171.7	74.0	53.3	57.0	60.7	3112.8	6.1	12.2	W36X260	B3
		9231.0	1880.0	260.0	278.1	296.2	425087.0	1.86	3.72	W920X387	
92-1847	IZ	171.9	72.7	59.5	63.3	67.1	2751.4	6.1	12.2	W30X292	B3
		9243.1	1847.0	290.6	309.0	327.4	375733.2	1.86	3.72	W760X434	
93-1770	IZ	172.0	69.7	55.9	59.9	63.8	3220.6	6.1	12.2	W36X256	B3
		9249.3	1770.0	273.1	292.3	311.5	439802.6	1.86	3.72	W920X381	
93-2464	IZ	172.4	97.0	52.0	56.0	59.9	3460.6	8.83	17.85	W40X324	B2
		9266.1	2464.0	253.9	273.3	292.6	472571.8	2.69	5.44	W1000X483	
93-1897	IZ	172.8	74.7	99.1	102.8	106.5	1748.3	6.1	12.2	W14X550	B3
		9290.0	1897.0	484.1	502.0	519.9	238752.0	1.86	3.72	W360X818	
93-2514	IZ	173.6	99.0	99.9	103.8	107.7	1944.7	8.83	17.85	W14X730	B2
		9334.5	2514.0	487.7	506.7	525.6	265565.5	2.69	5.44	W360X1086	
94-2605	IZ	174.7	102.6	50.3	54.1	57.8	3845.5	8.79	17.78	W44X335	B1
		9394.3	2605.0	245.7	264.0	282.2	525143.9	2.68	5.42	W1100X499	
95-1860	IZ	175.8	73.2	49.0	52.7	56.5	3771.3	6.1	12.2	W44X230	B3
		9449.6	1860.0	239.2	257.4	275.7	515001.3	1.86	3.72	W1100X343	
95-2607	IZ	176.2	102.6	53.6	57.3	61.0	3572.6	8.79	17.78	W40X362	B1
		9473.3	2607.0	261.5	279.7	297.9	487874.6	2.68	5.42	W1000X539	
95-2485	IZ	176.5	97.8	55.8	59.7	63.6	3300.3	8.83	17.85	W36X359	B2
		9488.2	2485.0	272.3	291.5	310.6	450690.3	2.69	5.44	W920X534	
96-2627	IZ	178.1	103.4	56.8	60.5	64.2	3365.8	8.79	17.78	W36X393	B1
		9575.5	2627.0	277.2	295.2	313.3	459623.7	2.68	5.42	W920X585	
97-1860	IZ	179.8	73.2	52.1	55.8	59.6	3538.6	6.1	12.2	W40X249	B3
		9664.7	1860.0	254.4	272.6	290.9	483233.3	1.86	3.72	W1000X371	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
97-2608	IZ	179.9	102.7	54.7	58.4	62.2	3655.7	8.79	17.78	W40X372	B1
		9674.7	2608.0	267.1	285.3	303.5	499214.3	2.68	5.42	W1000X554	
97-1830	IZ	180.9	72.0	67.5	71.3	75.1	2713.5	6.1	12.2	W27X336	B3
		9725.6	1830.0	329.3	347.9	366.4	370546.0	1.86	3.72	W690X500	
97-2471	IZ	181.0	97.3	59.7	63.6	67.6	3252.6	8.83	17.85	W33X387	B2
		9729.8	2471.0	291.3	310.6	329.9	444165.9	2.69	5.44	W840X576	
97-1807	IZ	181.1	71.1	74.0	77.9	81.7	2534.6	6.1	12.2	W24X370	B3
		9736.3	1807.0	361.3	380.1	398.9	346125.9	1.86	3.72	W610X551	
99-1864	IZ	183.7	73.4	58.9	62.6	66.4	3201.0	6.1	12.2	W33X291	B3
		9878.5	1864.0	287.5	305.7	324.0	437123.9	1.86	3.72	W840X433	
99-1882	IZ	184.5	74.1	56.5	60.2	63.9	3371.0	6.1	12.2	W36X280	B3
		9921.2	1882.0	276.0	294.1	312.1	460345.9	1.86	3.72	W920X417	
100-2514	IZ	185.3	99.0	59.2	63.1	66.9	3852.8	8.79	17.78	W40X392	B1
		9964.7	2514.0	289.0	307.9	326.8	526136.1	2.68	5.42	W1000X584	
100-1763	IZ	185.5	69.4	57.4	61.4	65.3	3710.5	6.1	12.2	W40X264	B3
		9974.5	1763.0	280.4	299.7	318.9	506702.4	1.86	3.72	W1000X393	
100-2531	IZ	186.5	99.6	108.8	112.6	116.5	2128.9	8.83	17.85	W14X808	B2
		10024.7	2531.0	531.0	549.8	568.6	290715.7	2.69	5.44	W360X1202	
101-2465	IZ	187.7	97.0	53.2	57.2	61.1	4131.8	8.83	17.85	W44X335	B2
		10093.6	2465.0	259.9	279.2	298.5	564231.5	2.69	5.44	W1100X499	
101-1902	IZ	188.6	74.9	108.2	111.8	115.5	1971.7	6.1	12.2	W14X605	B3
		10141.5	1902.0	528.2	546.0	563.9	269256.4	1.86	3.72	W360X900	
102-1850	IZ	188.9	72.8	65.0	68.7	72.5	3060.6	6.1	12.2	W30X326	B3
		10156.9	1850.0	317.3	335.6	354.0	417955.4	1.86	3.72	W760X484	
102-2467	IZ	189.5	97.1	56.6	60.6	64.5	3843.1	8.83	17.85	W40X362	B2
		10190.6	2467.0	276.5	295.8	315.1	524815.5	2.69	5.44	W1000X539	
103-2487	IZ	191.7	97.9	60.0	63.9	67.8	3622.4	8.83	17.85	W36X393	B2
		10305.8	2487.0	292.9	312.1	331.2	494677.2	2.69	5.44	W920X585	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
103-2609	IZ	192.2	102.7	57.6	61.3	65.0	3935.7	8.79	17.78	W40X397	B1
		10335.6	2609.0	281.2	299.4	317.6	537451.9	2.68	5.42	W1000X591	
104-2468	IZ	193.5	97.2	57.9	61.8	65.8	3930.8	8.83	17.85	W40X372	B2
		10402.8	2468.0	282.5	301.8	321.1	536783.5	2.69	5.44	W1000X554	
104-1764	IZ	193.8	69.4	60.0	63.9	67.8	3891.5	6.1	12.2	W40X278	B3
		10420.1	1764.0	292.7	312.0	331.2	531424.8	1.86	3.72	W1000X415	
105-2587	IZ	194.8	101.9	74.7	78.4	82.2	3166.7	8.79	17.78	W27X539	B1
		10470.6	2587.0	364.6	382.9	401.3	432435.4	2.68	5.42	W690X802	
105-1832	IZ	195.8	72.1	72.7	76.5	80.3	2975.2	6.1	12.2	W27X368	B3
		10525.6	1832.0	355.1	373.6	392.2	406287.3	1.86	3.72	W690X548	
106-1883	IZ	196.4	74.1	59.7	63.4	67.1	3607.0	6.1	12.2	W36X300	B3
		10558.7	1883.0	291.7	309.8	327.8	492562.3	1.86	3.72	W920X446	
106-1862	IZ	197.4	73.3	56.5	60.3	64.0	3917.3	6.1	12.2	W40X277	B3
		10614.0	1862.0	276.0	294.3	312.5	534943.4	1.86	3.72	W1000X412	
106-2631	IZ	197.5	103.6	61.9	65.6	69.3	3779.1	8.79	17.78	W36X439	B1
		10618.6	2631.0	302.4	320.4	338.5	516066.2	2.68	5.42	W920X653	
107-1866	IZ	199.1	73.5	63.2	66.9	70.7	3500.6	6.1	12.2	W33X318	B3
		10706.2	1866.0	308.7	326.9	345.1	478031.6	1.86	3.72	W840X473	
107-2374	IZ	199.7	93.5	62.7	66.8	70.9	4150.4	8.83	17.85	W40X392	B2
		10734.5	2374.0	306.2	326.3	346.3	566780.5	2.69	5.44	W1000X584	
108-1860	IZ	200.2	73.2	54.3	58.0	61.7	4335.6	6.1	12.2	W44X262	B3
		10764.7	1860.0	264.9	283.2	301.4	592060.0	1.86	3.72	W1100X390	
110-1853	IZ	205.2	73.0	70.0	73.8	77.5	3364.9	6.1	12.2	W30X357	B3
		11032.7	1853.0	341.8	360.1	378.4	459510.0	1.86	3.72	W760X531	
110-1908	IZ	205.4	75.1	117.1	120.8	124.4	2223.7	6.1	12.2	W14X665	B3
		11042.5	1908.0	571.8	589.6	607.4	303667.7	1.86	3.72	W360X990	
111-2469	IZ	206.5	97.2	60.9	64.8	68.8	4226.6	8.83	17.85	W40X397	B2
		11099.5	2469.0	297.3	316.6	335.9	577174.1	2.69	5.44	W1000X591	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
111-2612	IZ	206.9	102.8	61.5	65.2	69.0	4268.3	8.79	17.78	W40X431	B1
		11123.5	2612.0	300.4	318.6	336.7	582872.0	2.68	5.42	W1000X642	
112-1862	IZ	207.7	73.3	59.9	63.6	67.4	4138.1	6.1	12.2	W40X297	B3
		11167.7	1862.0	292.5	310.7	328.9	565087.8	1.86	3.72	W1000X443	
113-2447	IZ	210.1	96.3	79.0	83.0	87.0	3416.2	8.83	17.85	W27X539	B2
		11295.6	2447.0	385.6	405.1	424.5	466506.4	2.69	5.44	W690X802	
114-2491	IZ	212.1	98.1	65.5	69.4	73.3	4058.6	8.83	17.85	W36X439	B2
		11404.0	2491.0	319.6	338.7	357.8	554235.6	2.69	5.44	W920X653	
115-1882	IZ	213.3	74.1	64.2	67.9	71.6	3956.2	6.1	12.2	W36X328	B3
		11470.4	1882.0	313.6	331.6	349.6	540255.3	1.86	3.72	W920X488	
118-1869	IZ	218.9	73.6	69.0	72.7	76.4	3891.7	6.1	12.2	W33X354	B3
		11770.6	1869.0	336.7	354.9	373.1	531444.5	1.86	3.72	W840X527	
118-1862	IZ	220.3	73.3	59.0	62.7	66.4	4803.9	6.1	12.2	W44X290	B3
		11841.4	1862.0	287.8	306.1	324.3	656015.8	1.86	3.72	W1100X433	
119-2472	IZ	221.9	97.3	65.0	69.0	72.9	4577.6	8.83	17.85	W40X431	B2
		11929.7	2472.0	317.6	336.8	356.1	625118.3	2.69	5.44	W1000X642	
120-1856	IZ	222.5	73.1	75.6	79.4	83.1	3691.9	6.1	12.2	W30X391	B3
		11961.0	1856.0	369.1	387.4	405.7	504156.0	1.86	3.72	W760X582	
121-1768	IZ	224.6	69.6	68.1	72.0	76.0	4580.6	6.1	12.2	W40X327	B3
		12075.7	1768.0	332.5	351.7	370.9	625521.7	1.86	3.72	W1000X486	
121-1914	IZ	225.0	75.4	126.8	130.5	134.1	2519.9	6.1	12.2	W14X730	B3
		12095.7	1914.0	619.2	636.9	654.7	344121.3	1.86	3.72	W360X1086	
122-1864	IZ	226.1	73.4	64.2	68.0	71.7	4539.2	6.1	12.2	W40X324	B3
		12154.3	1864.0	313.6	331.9	350.1	619867.7	1.86	3.72	W1000X483	
122-1769	IZ	226.5	69.6	69.0	72.9	76.8	4619.4	6.1	12.2	W40X331	B3
		12178.1	1769.0	336.7	355.9	375.1	630824.5	1.86	3.72	W1000X494	
124-1885	IZ	230.8	74.2	69.1	72.8	76.4	4315.9	6.1	12.2	W36X359	B3
		12408.0	1885.0	337.2	355.2	373.2	589380.3	1.86	3.72	W920X534	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
126-2637	IZ	234.9	103.8	71.9	75.6	79.3	4605.5	8.79	17.78	W36X527	B1
		12629.0	2637.0	351.1	369.1	387.1	628923.7	2.68	5.42	W920X784	
127-1871	IZ	237.1	73.7	74.3	78.0	81.7	4260.4	6.1	12.2	W33X387	B3
		12744.8	1871.0	362.8	381.0	399.1	581801.4	1.86	3.72	W840X576	
129-2617	IZ	240.0	103.0	69.8	73.5	77.3	5045.3	8.79	17.78	W40X503	B1
		12902.4	2617.0	340.9	359.0	377.2	688986.5	2.68	5.42	W1000X748	
130-1931	IZ	241.4	76.0	138.2	141.8	145.4	2756.3	6.1	12.2	W14X808	B3
		12979.1	1931.0	674.7	692.3	709.9	376394.6	1.86	3.72	W360X1202	
133-1865	IZ	246.5	73.4	65.8	69.6	73.3	5425.8	6.1	12.2	W44X335	B3
		13254.7	1865.0	321.5	339.7	357.9	740936.7	1.86	3.72	W1100X499	
134-1867	IZ	248.7	73.5	70.3	74.1	77.8	5043.0	6.1	12.2	W40X362	B3
		13372.1	1867.0	343.4	361.6	379.8	688664.3	1.86	3.72	W1000X539	
135-1887	IZ	250.8	74.3	74.6	78.3	82.0	4739.4	6.1	12.2	W36X393	B3
		13483.5	1887.0	364.3	382.3	400.3	647206.5	1.86	3.72	W920X585	
135-2497	IZ	251.5	98.3	76.0	79.9	83.8	4930.7	8.83	17.85	W36X527	B2
		13520.7	2497.0	371.0	390.0	409.1	673329.0	2.69	5.44	W920X784	
137-1868	IZ	253.9	73.5	71.9	75.7	79.4	5158.1	6.1	12.2	W40X372	B3
		13650.9	1868.0	351.2	369.4	387.6	704388.8	1.86	3.72	W1000X554	
138-2477	IZ	256.8	97.5	73.8	77.7	81.7	5398.0	8.83	17.85	W40X503	B2
		13804.2	2477.0	360.3	379.6	398.8	737145.1	2.69	5.44	W1000X748	
143-1774	IZ	265.4	69.8	79.2	83.1	87.0	5517.1	6.1	12.2	W40X392	B3
		14269.2	1774.0	386.6	405.8	424.9	753412.3	1.86	3.72	W1000X584	
146-1869	IZ	271.0	73.6	75.9	79.7	83.4	5548.2	6.1	12.2	W40X397	B3
		14570.3	1869.0	370.8	388.9	407.1	757656.1	1.86	3.72	W1000X591	
149-1847	IZ	276.2	72.7	100.1	103.9	107.6	4490.3	6.1	12.2	W27X539	B3
		14847.2	1847.0	488.7	507.0	525.4	613187.7	1.86	3.72	W690X802	
149-1891	IZ	277.6	74.4	81.8	85.4	89.1	5311.6	6.1	12.2	W36X439	B3
		14924.7	1891.0	399.2	417.2	435.2	725339.7	1.86	3.72	W920X653	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		King Pile Beam	Configuration
				60%	80%	100%		Front	Front & Back		
		in³/ft (cm³/m)	in (mm)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	lb/ft² (kg/m²)	in⁴/ft (cm⁴/m)	ft²/ft (m²/m)	ft²/ft (m²/m)	in (mm)	
152-2624	IZ	282.2	103.3	80.4	84.1	87.8	6066.6	8.79	17.78	W40X593	B1
		15173.0	2624.0	392.3	410.4	428.5	828447.6	2.68	5.42	W1000X883	
154-2646	IZ	287.1	104.2	85.8	89.4	93.1	5810.2	8.79	17.78	W36X650	B1
		15436.4	2646.0	418.8	436.7	454.6	793429.2	2.68	5.42	W920X967	
157-1872	IZ	291.3	73.7	81.4	85.1	88.8	6009.7	6.1	12.2	W40X431	B3
		15661.8	1872.0	397.4	415.6	433.7	820677.9	1.86	3.72	W1000X642	
162-2484	IZ	301.3	97.8	84.9	88.9	92.8	6475.8	8.83	17.85	W40X593	B2
		16196.5	2484.0	414.6	433.8	453.0	884330.7	2.69	5.44	W1000X883	
165-2506	IZ	306.5	98.7	90.6	94.5	98.4	6201.5	8.83	17.85	W36X650	B2
		16476.0	2506.0	442.3	461.3	480.3	846865.3	2.69	5.44	W920X967	
177-1897	IZ	329.3	74.7	95.6	99.2	102.9	6455.5	6.1	12.2	W36X527	B3
		17702.0	1897.0	466.7	484.6	502.5	881559.8	1.86	3.72	W920X784	
181-1877	IZ	337.2	73.9	92.9	96.6	100.3	7088.5	6.1	12.2	W40X503	B3
		18127.2	1877.0	453.7	471.8	489.8	967994.1	1.86	3.72	W1000X748	
189-2657	IZ	352.1	104.6	102.4	106.0	109.7	7387.7	8.79	17.78	W36X798	B1
		18928.0	2657.0	499.7	517.6	535.5	1008862.3	2.68	5.42	W920X1188	
202-2517	IZ	374.8	99.1	108.1	112.0	115.8	7865.1	8.83	17.85	W36X798	B2
		20151.0	2517.0	527.7	546.6	565.6	1074047.7	2.69	5.44	W920X1188	
213-1884	IZ	395.6	74.2	107.5	111.2	114.9	8503.3	6.1	12.2	W40X593	B3
		21267.3	1884.0	524.9	542.9	560.9	1161196.3	1.86	3.72	W1000X883	
216-1906	IZ	401.2	75.0	114.7	118.4	122.0	8119.1	6.1	12.2	W36X650	B3
		21570.8	1906.0	560.0	577.8	595.7	1108741.3	1.86	3.72	W920X967	
264-1917	IZ	490.5	75.5	137.5	141.2	144.8	10292.5	6.1	12.2	W36X798	B3
		26370.1	1917.0	671.5	689.2	706.9	1405526.6	1.86	3.72	W920X1188	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ-Pile.

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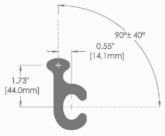
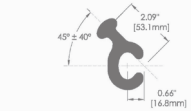
PilePro® Sheet Pile Connectors



PZ 90



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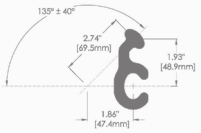

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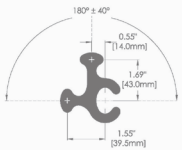

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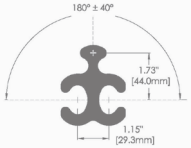

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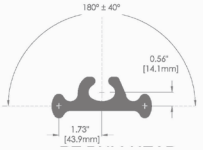
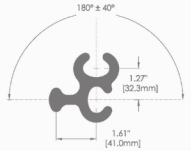


Bullhead



PZT-S

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

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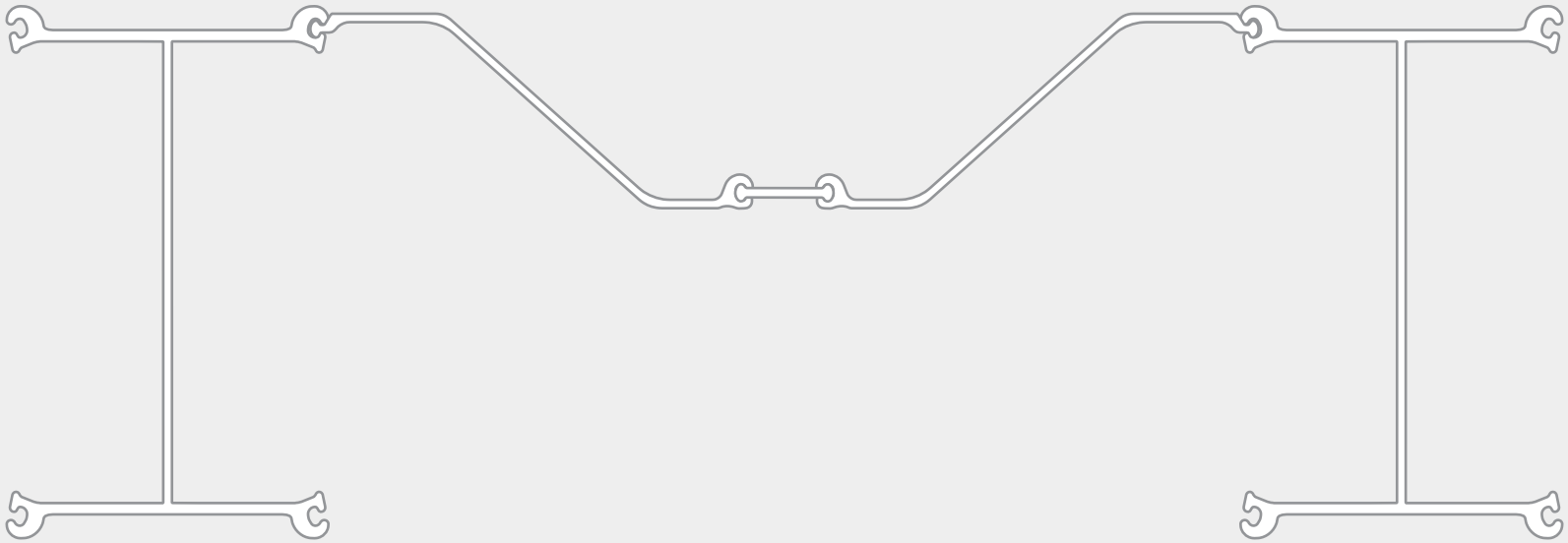
Configuration A



SECTION NAME:
85 - 1983

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

These are examples from a large variety of possible IZ-Pile solutions.
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Sheet Pile LLC is the owner and assignee of numerous patents and IP, that may be related to this sheet pile solution.

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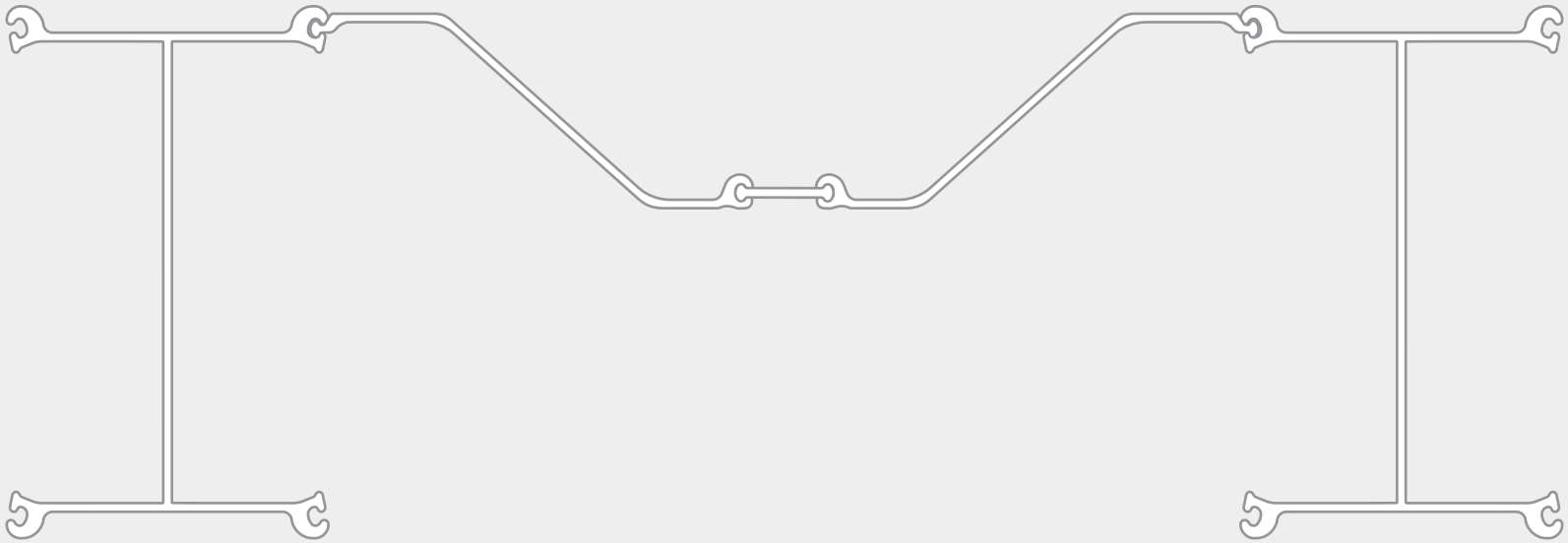
Configuration B



SECTION NAME:
49 - 2055

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

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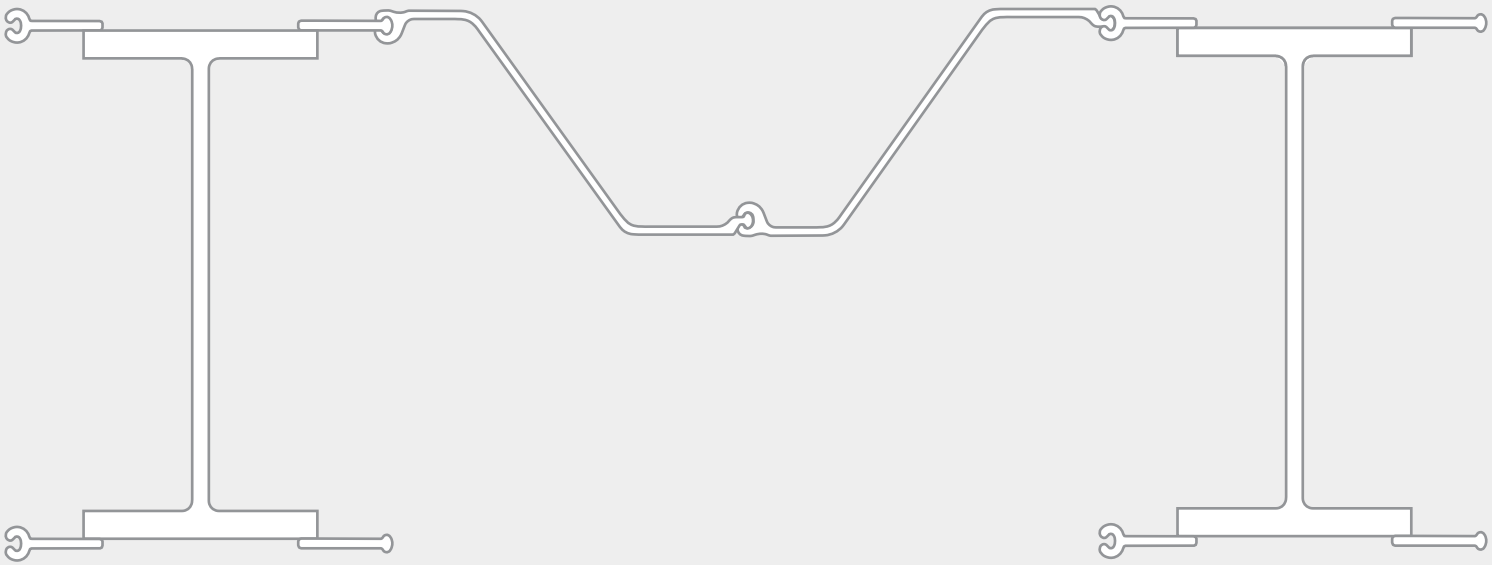
Configuration C



SECTION NAME:
79 - 2045

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

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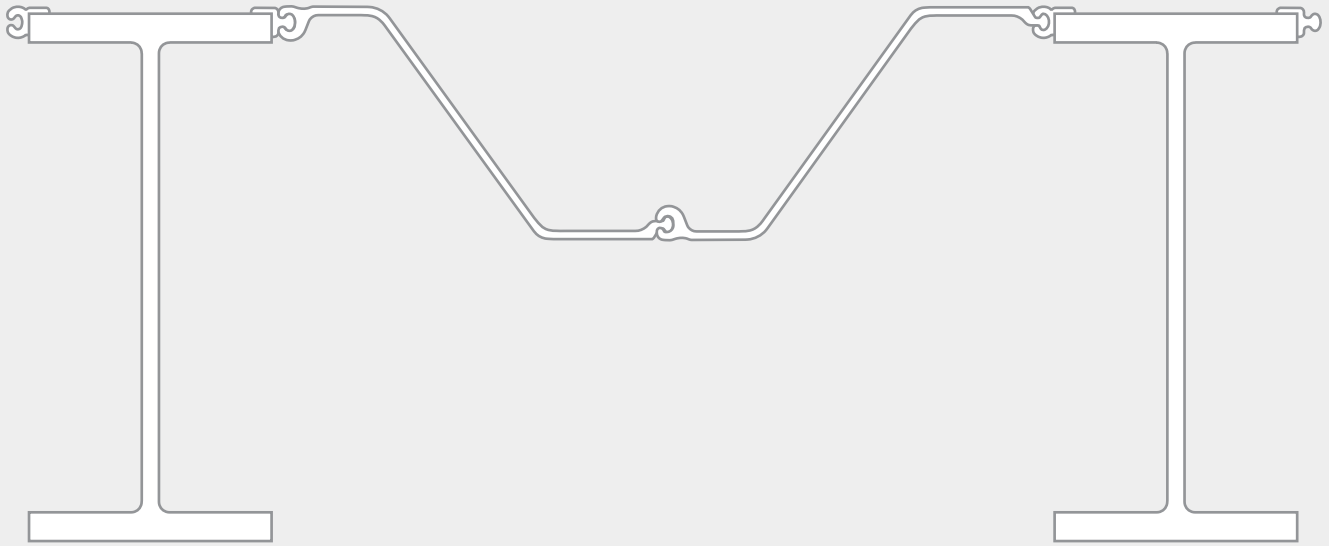
Configuration D



SECTION NAME:
85 - 1901

Section width in mm

Section modulus (eslastic) in $cm^3/m \div 100$

These are examples from a large variety of possible IZ-Pile solutions.
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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
27-1782	IZ	50.2	70.2	32.4	36.3	40.2	329.3	12.2	11.22	W12X120	D1
		2700.6	1782.0	158.0	177.1	196.3	44964.4	3.72	3.42	W310X179	
27-1948	IZ	50.3	76.7	27.5	31.4	35.3	426.9	12.2	11.22	W16X100	C1
		2705.5	1948.4	134.3	153.2	172.2	58303.2	3.72	3.42	W410X149	
27-1532	IZ	50.3	60.3	24.7	29.3	33.9	523.0	12.2	11.22	W21X55	D2
		2705.5	1531.6	120.7	143.0	165.3	71426.0	3.72	3.42	W530X82	
27-1681	IZ	50.3	66.2	27.5	31.7	35.8	539.0	12.2	11.22	W21X83	D1
		2706.1	1681.0	134.3	154.6	174.9	73605.4	3.72	3.42	W530X123	
27-1697	IZ	50.4	66.8	26.0	30.1	34.3	603.4	12.2	11.22	W24X76	D1
		2710.3	1697.0	127.0	147.1	167.3	82393.0	3.72	3.42	W610X113	
27-1514	IZ	50.4	59.6	25.0	29.6	34.3	456.8	12.2	11.22	W18X55	D2
		2712.3	1513.6	122.2	144.7	167.3	62382.6	3.72	3.42	W460X82	
27-2056	IZ	50.5	81.0	28.9	32.6	36.2	365.6	12.2	11.22	W14X120	C1
		2713.2	2056.4	141.0	158.9	176.9	49923.5	3.72	3.42	W360X179	
27-1895	IZ	50.5	74.6	25.3	29.3	33.3	540.4	12.2	11.22	W21X83	C1
		2713.3	1895.4	123.5	143.0	162.5	73802.3	3.72	3.42	W530X123	
27-2087	IZ	50.8	82.2	28.7	32.3	35.9	401.5	12.2	11.22	HP16x121	C1
		2729.0	2086.6	140.0	157.8	175.5	54834.1	3.72	3.42	HP410x181	
27-1911	IZ	51.0	75.3	24.0	28.0	31.9	610.3	12.2	11.22	W24X76	C1
		2741.7	1911.4	117.2	136.5	155.8	83347.4	3.72	3.42	W610X113	
28-1501	IZ	51.1	59.1	25.2	29.9	34.6	602.6	12.2	11.22	W24X55	D2
		2747.7	1500.6	123.2	146.0	168.8	82294.7	3.72	3.42	W610X82	
28-1734	IZ	51.2	68.3	29.9	33.9	38.0	434.0	12.2	11.22	W16X100	D1
		2750.2	1734.0	146.0	165.7	185.4	59267.9	3.72	3.42	W410X149	
28-1729	IZ	51.2	68.1	23.7	28.1	32.5	466.6	12.2	11.22	W18X60	C2
		2752.4	1729.0	115.9	137.3	158.7	63717.4	3.72	3.42	W460X89	
28-1504	IZ	51.2	59.2	25.5	30.2	34.8	420.3	12.2	11.22	W16X57	D2
		2753.0	1503.6	124.5	147.3	170.0	57400.9	3.72	3.42	W410X85	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
28-1966	IZ	51.3	77.4	26.6	30.4	34.3	476.7	12.2	11.22	W18X97	C1
		2758.2	1966.4	129.8	148.6	167.4	65094.6	3.72	3.42	W460X144	
28-1703	IZ	51.4	67.0	23.5	28.0	32.4	541.8	12.2	11.22	W21X57	C2
		2766.0	1703.0	114.9	136.6	158.3	73991.1	3.72	3.42	W530X85	
28-1715	IZ	51.5	67.5	23.1	27.5	31.9	606.8	12.2	11.22	W24X55	C2
		2766.6	1715.0	112.7	134.3	155.8	82859.9	3.72	3.42	W610X82	
28-1489	IZ	51.7	58.6	25.8	30.5	35.2	544.3	12.2	11.22	W21X57	D2
		2778.9	1488.6	125.8	148.8	171.7	74335.1	3.72	3.42	W530X85	
28-1998	IZ	51.8	78.7	32.1	35.9	39.7	348.0	12.2	11.22	W12X136	C1
		2787.4	1998.4	156.8	175.3	193.8	47524.8	3.72	3.42	W310X202	
28-1842	IZ	51.9	72.5	31.3	35.1	38.9	375.7	12.2	11.22	W14X120	D1
		2788.4	1842.0	152.8	171.4	189.9	51306.1	3.72	3.42	W360X179	
28-1752	IZ	51.9	69.0	28.9	32.9	36.9	482.5	12.2	11.22	W18X97	D1
		2792.2	1752.0	140.9	160.4	179.9	65896.4	3.72	3.42	W460X144	
28-1872	IZ	52.0	73.7	31.0	34.8	38.5	411.4	12.2	11.22	HP16x121	D1
		2796.2	1872.2	151.6	169.8	188.1	56184.3	3.72	3.42	HP410x181	
28-1515	IZ	52.1	59.6	26.0	30.6	35.2	475.3	12.2	11.22	W18X60	D2
		2803.5	1514.6	126.8	149.3	171.9	64900.8	3.72	3.42	W460X89	
28-1797	IZ	52.3	70.7	24.2	28.4	32.6	427.4	12.2	11.22	W16X67	C2
		2812.7	1797.0	118.1	138.6	159.2	58363.0	3.72	3.42	W410X100	
28-1730	IZ	52.7	68.1	24.6	28.9	33.3	483.3	12.2	11.22	W18X65	C2
		2832.7	1730.0	119.9	141.3	162.6	66002.1	3.72	3.42	W460X97	
29-1746	IZ	53.0	68.7	23.9	28.2	32.5	556.0	12.2	11.22	W21X62	C2
		2849.0	1746.0	116.6	137.7	158.9	75925.1	3.72	3.42	W530X92	
29-2057	IZ	53.2	81.0	30.6	34.3	37.9	389.4	12.2	11.22	W14X132	C1
		2858.8	2057.4	149.3	167.3	185.2	53174.3	3.72	3.42	W360X196	
29-1532	IZ	53.5	60.3	26.1	30.7	35.2	561.2	12.2	11.22	W21X62	D2
		2875.8	1531.6	127.4	149.7	172.0	76638.9	3.72	3.42	W530X92	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
29-1935	IZ	53.5	76.2	25.6	29.5	33.4	409.5	12.2	11.22	HP16x88	C2
		2876.2	1935.5	124.8	143.9	163.0	55925.6	3.72	3.42	HP410x131	
29-1784	IZ	53.5	70.2	35.0	38.9	42.9	359.2	12.2	11.22	W12X136	D1
		2876.7	1784.0	171.0	190.1	209.3	49047.6	3.72	3.42	W310X202	
29-1897	IZ	53.7	74.7	26.9	30.9	34.9	580.5	12.2	11.22	W21X93	C1
		2887.7	1897.4	131.3	150.7	170.2	79267.8	3.72	3.42	W530X138	
29-1967	IZ	53.8	77.5	28.0	31.8	35.7	503.7	12.2	11.22	W18X106	C1
		2890.2	1967.4	136.6	155.4	174.1	68787.3	3.72	3.42	W460X158	
29-1516	IZ	53.8	59.7	26.9	31.5	36.1	493.3	12.2	11.22	W18X65	D2
		2891.0	1515.6	131.3	153.9	176.4	67361.4	3.72	3.42	W460X97	
29-1683	IZ	53.9	66.3	29.3	33.4	37.6	582.2	12.2	11.22	W21X93	D1
		2896.4	1683.0	143.0	163.3	183.6	79507.3	3.72	3.42	W530X138	
29-1583	IZ	53.9	62.3	26.4	30.8	35.2	440.4	12.2	11.22	W16X67	D2
		2898.1	1582.6	128.7	150.3	171.9	60136.0	3.72	3.42	W410X100	
29-1698	IZ	54.1	66.8	27.4	31.5	35.7	651.4	12.2	11.22	W24X84	D1
		2907.2	1698.0	133.9	154.0	174.1	88959.9	3.72	3.42	W610X125	
29-1502	IZ	54.3	59.1	26.6	31.3	35.9	644.9	12.2	11.22	W24X62	D2
		2920.7	1501.6	129.9	152.7	175.4	88060.1	3.72	3.42	W610X92	
29-1912	IZ	54.3	75.3	25.2	29.2	33.2	654.6	12.2	11.22	W24X84	C1
		2921.4	1912.4	123.3	142.6	161.9	89395.9	3.72	3.42	W610X125	
29-1716	IZ	54.4	67.6	24.3	28.7	33.1	645.4	12.2	11.22	W24X62	C2
		2923.4	1716.0	118.6	140.1	161.7	88139.4	3.72	3.42	W610X92	
29-1731	IZ	54.4	68.1	25.7	30.0	34.4	502.2	12.2	11.22	W18X71	C2
		2924.3	1731.0	125.3	146.6	168.0	68574.2	3.72	3.42	W460X106	
29-1753	IZ	54.6	69.0	30.4	34.4	38.4	511.6	12.2	11.22	W18X106	D1
		2935.7	1753.0	148.5	168.0	187.5	69869.7	3.72	3.42	W460X158	
30-1843	IZ	54.8	72.6	33.2	37.0	40.8	401.2	12.2	11.22	W14X132	D1
		2945.9	1843.0	162.1	180.6	199.2	54792.9	3.72	3.42	W360X196	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
30-1798	IZ	55.1	70.8	25.9	30.1	34.3	455.1	12.2	11.22	W16X77	C2
		2959.7	1798.0	126.3	146.9	167.4	62154.2	3.72	3.42	W410X114	
30-1817	IZ	55.2	71.5	25.2	29.4	33.6	502.8	12.2	11.22	W18X76	C2
		2966.2	1817.0	123.2	143.6	163.9	68666.7	3.72	3.42	W460X113	
30-2000	IZ	55.2	78.8	34.6	38.4	42.2	378.2	12.2	11.22	W12X152	C1
		2968.5	2000.4	168.8	187.3	205.8	51652.5	3.72	3.42	W310X226	
30-1747	IZ	55.3	68.8	24.9	29.2	33.5	584.1	12.2	11.22	W21X68	C2
		2970.8	1747.0	121.4	142.6	163.8	79764.9	3.72	3.42	W530X101	
30-1721	IZ	55.5	67.8	27.7	31.8	35.9	424.5	12.2	11.22	HP16x88	D2
		2981.6	1721.0	135.5	155.3	175.2	57973.8	3.72	3.42	HP410x131	
30-2090	IZ	55.5	82.3	31.6	35.2	38.8	443.7	12.2	11.22	HP16x141	C1
		2982.0	2089.8	154.1	171.8	189.5	60594.4	3.72	3.42	HP410x211	
30-1517	IZ	55.6	59.7	28.2	32.8	37.4	513.7	12.2	11.22	W18X71	D2
		2991.3	1516.6	137.5	160.0	182.5	70144.8	3.72	3.42	W460X106	
30-2077	IZ	55.9	81.8	32.2	35.9	39.5	413.0	12.2	11.22	W14X145	C1
		3007.8	2077.4	157.3	175.1	192.9	56395.8	3.72	3.42	W360X216	
30-1533	IZ	56.0	60.3	27.2	31.8	36.4	591.7	12.2	11.22	W21X68	D2
		3009.2	1532.6	132.9	155.2	177.5	80797.8	3.72	3.42	W530X101	
30-1722	IZ	56.2	67.8	27.1	31.2	35.3	749.7	12.2	11.22	W27X84	D1
		3019.9	1722.0	132.5	152.3	172.1	102375.2	3.72	3.42	W690X125	
30-2134	IZ	56.3	84.0	30.0	33.6	37.1	493.9	12.2	11.22	HP18x135	C1
		3029.3	2134.2	146.6	164.0	181.3	67440.9	3.72	3.42	HP360x202	
30-1995	IZ	56.5	78.6	26.9	30.6	34.4	603.6	12.2	11.22	W21X101	C1
		3035.7	1995.4	131.1	149.6	168.2	82420.6	3.72	3.42	W530X150	
30-1603	IZ	56.6	63.1	27.5	31.9	36.3	516.0	12.2	11.22	W18X76	D2
		3043.7	1602.6	134.5	155.8	177.1	70462.0	3.72	3.42	W460X113	
31-1936	IZ	56.7	76.2	25.0	28.9	32.8	756.5	12.2	11.22	W27X84	C1
		3047.6	1936.4	122.1	141.2	160.3	103312.1	3.72	3.42	W690X125	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
31-1765	IZ	56.7	69.5	24.6	28.9	33.2	673.2	12.2	11.22	W24X68	C2
		3048.9	1765.0	120.2	141.1	162.1	91924.7	3.72	3.42	W610X101	
31-1584	IZ	56.9	62.3	28.3	32.7	37.1	470.3	12.2	11.22	W16X77	D2
		3058.4	1583.6	138.1	159.7	181.2	64226.1	3.72	3.42	W410X114	
31-1937	IZ	56.9	76.3	27.7	31.6	35.6	441.1	12.2	11.22	HP16x101	C2
		3060.0	1937.0	135.4	154.5	173.6	60236.2	3.72	3.42	HP410x151	
31-1551	IZ	57.0	61.0	26.9	31.4	35.9	676.5	12.2	11.22	W24X68	D2
		3063.9	1550.6	131.4	153.4	175.5	92376.4	3.72	3.42	W610X101	
31-1748	IZ	57.1	68.8	25.8	30.1	34.4	605.7	12.2	11.22	W21X73	C2
		3069.3	1748.0	125.9	147.0	168.2	82718.9	3.72	3.42	W530X109	
31-1781	IZ	57.1	70.1	29.1	33.0	37.0	610.3	12.2	11.22	W21X101	D1
		3069.5	1781.0	142.2	161.4	180.5	83337.5	3.72	3.42	W530X150	
31-1875	IZ	57.1	73.8	34.3	38.0	41.7	456.8	12.2	11.22	HP16x141	D1
		3070.0	1875.4	167.3	185.5	203.7	62381.4	3.72	3.42	HP410x211	
31-1786	IZ	57.1	70.3	37.8	41.7	45.6	391.3	12.2	11.22	W12X152	D1
		3070.9	1786.0	184.4	203.5	222.7	53433.6	3.72	3.42	W310X226	
31-1848	IZ	57.4	72.8	24.2	29.9	35.5	593.4	13.32	12.27	W21X44	C3
		3086.9	1848.4	118.2	145.8	173.4	81031.0	4.06	3.74	W530X66	
31-1835	IZ	57.5	72.3	22.9	28.6	34.2	509.1	13.32	12.27	W18X35	C3
		3089.6	1835.4	111.7	139.4	167.2	69516.2	4.06	3.74	W460X52	
31-1969	IZ	57.8	77.5	30.0	33.8	37.7	548.4	12.2	11.22	W18X119	C1
		3107.4	1969.4	146.4	165.2	183.9	74887.7	3.72	3.42	W460X177	
31-1863	IZ	57.8	73.3	35.0	38.8	42.5	426.7	12.2	11.22	W14X145	D1
		3107.6	1863.0	170.9	189.2	207.6	58267.3	3.72	3.42	W360X216	
31-1920	IZ	57.8	75.6	32.5	36.1	39.8	506.8	12.2	11.22	HP18x135	D1
		3108.6	1919.8	158.6	176.4	194.2	69206.8	3.72	3.42	HP360x202	
31-1534	IZ	58.0	60.4	28.3	32.8	37.4	615.4	12.2	11.22	W21X73	D2
		3118.1	1533.6	138.0	160.3	182.5	84032.3	3.72	3.42	W530X109	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
31-1890	IZ	58.0	74.4	24.3	29.8	35.4	598.3	13.32	12.27	W21X48	C3
		3118.6	1890.4	118.7	145.7	172.6	81707.1	4.06	3.74	W530X72	
31-1913	IZ	58.3	75.3	26.9	30.9	34.8	708.6	12.2	11.22	W24X94	C1
		3136.7	1913.4	131.4	150.7	170.0	96766.8	3.72	3.42	W610X140	
31-1819	IZ	58.4	71.6	26.9	31.1	35.2	536.6	12.2	11.22	W18X86	C2
		3138.2	1819.0	131.3	151.6	172.0	73276.3	3.72	3.42	W460X128	
31-1800	IZ	58.4	70.9	27.9	32.1	36.3	488.7	12.2	11.22	W16X89	C2
		3140.8	1800.0	136.2	156.7	177.3	66741.1	3.72	3.42	W410X132	
31-1699	IZ	58.5	66.9	29.3	33.4	37.5	710.1	12.2	11.22	W24X94	D1
		3143.1	1699.0	143.0	163.1	183.2	96964.1	3.72	3.42	W610X140	
32-1634	IZ	58.7	64.3	26.3	32.4	38.4	606.3	13.32	12.27	W21X44	D3
		3154.2	1634.0	128.6	158.1	187.5	82797.8	4.06	3.74	W530X66	
32-2002	IZ	58.9	78.8	37.3	41.1	44.8	412.8	12.2	11.22	W12X170	C1
		3166.7	2002.4	182.0	200.5	218.9	56367.3	3.72	3.42	W310X253	
32-1836	IZ	58.9	72.3	23.7	29.4	35.1	528.0	13.32	12.27	W18X40	C3
		3169.2	1836.4	115.7	143.4	171.2	72099.7	4.06	3.74	W460X60	
32-1755	IZ	59.0	69.1	32.7	36.7	40.6	559.8	12.2	11.22	W18X119	D1
		3172.0	1755.0	159.5	179.0	198.4	76445.2	3.72	3.42	W460X177	
32-2078	IZ	59.1	81.8	34.3	37.9	41.6	442.1	12.2	11.22	W14X159	C1
		3177.7	2078.4	167.4	185.2	203.0	60377.0	3.72	3.42	W360X237	
32-1723	IZ	59.2	67.8	30.2	34.3	38.3	458.6	12.2	11.22	HP16x101	D2
		3181.1	1722.6	147.4	167.2	187.1	62620.5	3.72	3.42	HP410x151	
32-1676	IZ	59.3	66.0	26.4	32.3	38.2	611.9	13.32	12.27	W21X48	D3
		3189.6	1676.0	128.9	157.6	186.4	83566.7	4.06	3.74	W530X72	
32-1849	IZ	59.4	72.8	25.2	30.8	36.5	618.3	13.32	12.27	W21X50	C3
		3192.3	1849.4	122.9	150.5	178.0	84435.4	4.06	3.74	W530X74	
32-1621	IZ	59.5	63.8	24.8	30.9	37.0	527.2	13.32	12.27	W18X35	D3
		3200.0	1621.0	121.3	151.0	180.7	72000.5	4.06	3.74	W460X52	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
32-1996	IZ	59.7	78.6	28.4	32.2	36.0	641.3	12.2	11.22	W21X111	C1
		3207.8	1996.4	138.5	157.0	175.5	87573.3	3.72	3.42	W530X165	
32-1605	IZ	60.1	63.2	29.4	33.8	38.1	552.8	12.2	11.22	W18X86	D2
		3232.7	1604.6	143.6	164.9	186.2	75484.6	3.72	3.42	W460X128	
32-1861	IZ	60.2	73.3	25.9	31.5	37.1	710.4	13.32	12.27	W24X55	C3
		3239.1	1861.4	126.4	153.8	181.1	97010.2	4.06	3.74	W610X82	
33-2093	IZ	60.4	82.4	34.5	38.1	41.7	492.1	12.2	11.22	HP16x162	C1
		3246.5	2093.0	168.4	186.1	203.7	67206.8	3.72	3.42	HP410x242	
33-1837	IZ	60.4	72.3	24.7	30.4	36.0	545.7	13.32	12.27	W18X46	C3
		3247.0	1837.4	120.5	148.2	175.9	74517.7	4.06	3.74	W460X68	
33-1765	IZ	60.4	69.5	26.0	30.3	34.6	722.9	12.2	11.22	W24X76	C2
		3247.2	1765.0	126.9	147.8	168.8	98714.0	3.72	3.42	W610X113	
33-1749	IZ	60.5	68.9	27.4	31.7	36.1	648.1	12.2	11.22	W21X83	C2
		3254.1	1749.0	133.9	155.0	176.1	88510.5	3.72	3.42	W530X123	
33-1892	IZ	60.5	74.5	25.5	31.0	36.5	629.3	13.32	12.27	W21X55	C3
		3255.3	1892.4	124.3	151.2	178.2	85941.2	4.06	3.74	W530X82	
33-1586	IZ	60.6	62.4	30.6	35.0	39.4	506.7	12.2	11.22	W16X89	D2
		3256.4	1585.6	149.3	170.8	192.4	69197.7	3.72	3.42	W410X132	
33-1782	IZ	60.6	70.2	30.8	34.7	38.7	651.3	12.2	11.22	W21X111	D1
		3258.1	1782.0	150.5	169.6	188.8	88945.1	3.72	3.42	W530X165	
33-1635	IZ	60.8	64.4	27.4	33.5	39.5	632.9	13.32	12.27	W21X50	D3
		3267.7	1635.0	133.9	163.4	192.8	86430.6	4.06	3.74	W530X74	
33-1873	IZ	61.0	73.8	24.8	30.4	36.0	548.8	13.32	12.27	W18X50	C3
		3280.1	1873.4	121.2	148.4	175.6	74949.8	4.06	3.74	W460X74	
33-1551	IZ	61.1	61.0	28.5	33.0	37.5	730.8	12.2	11.22	W24X76	D2
		3282.7	1550.6	139.0	161.0	183.1	99794.5	3.72	3.42	W610X113	
33-2007	IZ	61.1	79.0	27.2	30.9	34.7	734.4	12.2	11.22	W24X104	C1
		3282.8	2007.4	132.7	151.1	169.5	100290.3	3.72	3.42	W610X155	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
33-1622	IZ	61.1	63.9	25.8	31.8	37.9	547.0	13.32	12.27	W18X40	D3
		3283.4	1622.0	125.8	155.5	185.2	74696.8	4.06	3.74	W460X60	
33-1647	IZ	61.1	64.8	28.2	34.2	40.2	720.1	13.32	12.27	W24X55	D3
		3283.4	1647.0	137.7	167.0	196.2	98337.4	4.06	3.74	W610X82	
33-1788	IZ	61.1	70.4	40.8	44.7	48.6	428.0	12.2	11.22	W12X170	D1
		3283.4	1788.0	199.1	218.2	237.3	58444.3	3.72	3.42	W310X253	
33-1864	IZ	61.2	73.4	37.3	41.1	44.8	457.9	12.2	11.22	W14X159	D1
		3291.4	1864.0	182.2	200.5	218.8	62536.0	3.72	3.42	W360X237	
33-1723	IZ	61.4	67.8	28.8	32.9	36.9	827.0	12.2	11.22	W27X94	D1
		3302.2	1723.0	140.6	160.4	180.2	112935.6	3.72	3.42	W690X140	
33-1937	IZ	61.5	76.3	26.5	30.4	34.3	827.7	12.2	11.22	W27X94	C1
		3304.8	1937.4	129.4	148.4	167.5	113024.4	3.72	3.42	W690X140	
33-1733	IZ	61.5	68.2	27.9	31.9	36.0	908.5	12.2	11.22	W30X90	D1
		3308.3	1733.0	136.1	155.9	175.6	124061.8	3.72	3.42	W760X134	
33-1802	IZ	61.6	70.9	29.7	33.9	38.1	522.3	12.2	11.22	W16X100	C2
		3309.5	1802.0	145.2	165.7	186.2	71319.6	3.72	3.42	W410X149	
33-1966	IZ	61.6	77.4	31.7	35.6	39.4	592.7	12.2	11.22	W18X130	C1
		3310.3	1966.4	155.0	173.8	192.6	80936.9	3.72	3.42	W460X193	
33-1793	IZ	61.6	70.6	29.5	33.4	37.3	741.3	12.2	11.22	W24X104	D1
		3313.8	1793.0	143.8	162.9	182.0	101235.4	3.72	3.42	W610X155	
33-1940	IZ	61.7	76.4	30.8	34.7	38.7	488.2	12.2	11.22	HP16x121	C2
		3317.6	1940.2	150.6	169.7	188.7	66661.5	3.72	3.42	HP410x181	
33-1535	IZ	61.8	60.4	30.1	34.7	39.2	661.6	12.2	11.22	W21X83	D2
		3321.7	1534.6	147.1	169.4	191.6	90350.0	3.72	3.42	W530X123	
33-2137	IZ	61.8	84.2	33.0	36.6	40.1	547.7	12.2	11.22	HP18x157	C1
		3322.7	2137.4	161.4	178.6	195.9	74793.5	3.72	3.42	HP360x234	
33-1849	IZ	61.8	72.8	26.3	32.0	37.6	651.3	13.32	12.27	W21X57	C3
		3324.7	1849.4	128.5	156.0	183.6	88935.3	4.06	3.74	W530X85	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
33-1820	IZ	61.9	71.7	28.7	32.9	37.1	575.1	12.2	11.22	W18X97	C2
		3327.5	1820.0	140.3	160.6	180.9	78528.6	3.72	3.42	W460X144	
33-1947	IZ	62.0	76.7	25.7	29.6	33.5	916.1	12.2	11.22	W30X90	C1
		3336.0	1947.4	125.5	144.5	163.4	125098.9	3.72	3.42	W760X134	
33-1678	IZ	62.1	66.1	27.7	33.6	39.4	645.3	13.32	12.27	W21X55	D3
		3337.9	1678.0	135.2	163.9	192.6	88120.6	4.06	3.74	W530X82	
33-1912	IZ	62.1	75.3	28.3	32.2	36.2	762.0	12.2	11.22	W24X103	C1
		3340.4	1912.4	138.0	157.4	176.7	104053.8	3.72	3.42	W610X153	
34-1874	IZ	62.4	73.8	25.7	31.3	36.8	564.6	13.32	12.27	W18X55	C3
		3352.3	1874.4	125.5	152.7	179.9	77103.7	4.06	3.74	W460X82	
34-1879	IZ	62.4	74.0	37.5	41.2	45.0	508.8	12.2	11.22	HP16x162	D1
		3356.7	1878.6	183.2	201.3	219.5	69487.0	3.72	3.42	HP410x242	
34-1698	IZ	62.6	66.8	30.8	34.9	39.1	767.7	12.2	11.22	W24X103	D1
		3365.3	1698.0	150.5	170.6	190.8	104830.4	3.72	3.42	W610X153	
34-1623	IZ	62.6	63.9	26.9	33.0	39.0	565.7	13.32	12.27	W18X46	D3
		3365.8	1623.0	131.2	160.9	190.6	77245.4	4.06	3.74	W460X68	
34-2081	IZ	62.8	81.9	36.7	40.4	44.0	478.5	12.2	11.22	W14X176	C1
		3376.8	2081.4	179.2	197.0	214.8	65340.6	3.72	3.42	W360X262	
34-1862	IZ	62.8	73.3	27.0	32.6	38.2	746.0	13.32	12.27	W24X62	C3
		3378.7	1862.4	131.8	159.2	186.5	101867.0	4.06	3.74	W610X92	
34-2005	IZ	62.9	79.0	40.2	44.0	47.7	452.1	12.2	11.22	W12X190	C1
		3383.0	2005.4	196.2	214.7	233.1	61739.1	3.72	3.42	W310X283	
34-1752	IZ	63.1	69.0	34.6	38.6	42.6	607.2	12.2	11.22	W18X130	D1
		3391.2	1752.0	169.2	188.7	208.2	82914.7	3.72	3.42	W460X193	
34-1892	IZ	63.1	74.5	26.6	32.1	37.6	661.8	13.32	12.27	W21X62	C3
		3391.4	1892.4	129.7	156.6	183.6	90380.1	4.06	3.74	W530X92	
34-1659	IZ	63.3	65.3	27.0	32.9	38.9	569.4	13.32	12.27	W18X50	D3
		3403.1	1659.0	131.8	160.8	189.9	77760.7	4.06	3.74	W460X74	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
34-1998	IZ	63.3	78.7	30.0	33.7	37.5	686.9	12.2	11.22	W21X122	C1
		3404.7	1998.4	146.2	164.7	183.2	93800.7	3.72	3.42	W530X182	
34-1635	IZ	63.4	64.4	28.7	34.7	40.8	667.9	13.32	12.27	W21X57	D3
		3409.7	1635.0	140.2	169.6	199.1	91208.3	4.06	3.74	W530X85	
34-1875	IZ	63.7	73.8	26.5	32.0	37.6	580.4	13.32	12.27	W18X60	C3
		3423.6	1875.4	129.2	156.4	183.5	79256.4	4.06	3.74	W460X89	
34-1923	IZ	63.8	75.7	35.8	39.5	43.1	565.1	12.2	11.22	HP18x157	D1
		3428.0	1923.0	175.0	192.7	210.5	77164.6	3.72	3.42	HP360x234	
34-1648	IZ	63.9	64.9	29.5	35.4	41.4	758.5	13.32	12.27	W24X62	D3
		3435.5	1648.0	143.9	173.1	202.3	103580.9	4.06	3.74	W610X92	
34-1751	IZ	64.0	68.9	29.1	33.5	37.8	691.4	12.2	11.22	W21X93	C2
		3439.6	1751.0	142.2	163.3	184.5	94416.2	3.72	3.42	W530X138	
34-1766	IZ	64.0	69.5	27.3	31.6	35.9	770.8	12.2	11.22	W24X84	C2
		3439.7	1766.0	133.5	154.4	175.3	105255.2	3.72	3.42	W610X125	
34-1588	IZ	64.0	62.5	32.7	37.1	41.5	542.9	12.2	11.22	W16X100	D2
		3440.0	1587.6	159.5	181.0	202.5	74131.3	3.72	3.42	W410X149	
34-1606	IZ	64.0	63.2	31.5	35.9	40.2	594.6	12.2	11.22	W18X97	D2
		3440.6	1605.6	153.8	175.1	196.4	81197.6	3.72	3.42	W460X144	
35-1726	IZ	64.4	67.9	33.7	37.7	41.8	509.6	12.2	11.22	HP16x121	D2
		3463.7	1725.8	164.4	184.2	204.0	69595.6	3.72	3.42	HP410x181	
35-1821	IZ	64.5	71.7	30.2	34.4	38.5	604.2	12.2	11.22	W18X106	C2
		3466.8	1821.0	147.5	167.8	188.1	82510.8	3.72	3.42	W460X158	
35-1784	IZ	64.6	70.2	32.6	36.5	40.4	700.7	12.2	11.22	W21X122	D1
		3473.0	1784.0	159.1	178.2	197.4	95680.7	3.72	3.42	W530X182	
35-1660	IZ	64.7	65.4	28.0	33.9	39.9	586.2	13.32	12.27	W18X55	D3
		3480.7	1660.0	136.7	165.7	194.7	80055.9	4.06	3.74	W460X82	
35-1911	IZ	64.8	75.3	27.2	32.7	38.1	769.0	13.32	12.27	W24X68	C3
		3482.9	1911.4	132.9	159.6	186.3	105010.6	4.06	3.74	W610X101	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
35-1678	IZ	64.8	66.1	28.9	34.8	40.7	680.1	13.32	12.27	W21X62	D3
		3485.1	1678.0	141.3	170.0	198.7	92878.7	4.06	3.74	W530X92	
35-1876	IZ	64.9	73.9	27.2	32.8	38.3	595.7	13.32	12.27	W18X65	C3
		3491.6	1876.4	132.9	160.1	187.2	81354.5	4.06	3.74	W460X97	
35-1552	IZ	65.0	61.1	30.0	34.5	39.0	783.3	12.2	11.22	W24X84	D2
		3495.7	1551.6	146.5	168.5	190.5	106969.7	3.72	3.42	W610X125	
35-1893	IZ	65.1	74.5	27.5	33.0	38.5	687.7	13.32	12.27	W21X68	C3
		3497.8	1893.4	134.2	161.1	188.0	93915.3	4.06	3.74	W530X101	
35-2103	IZ	65.1	82.8	37.5	41.1	44.7	537.7	12.2	11.22	HP16x183	C1
		3501.4	2102.5	183.1	200.6	218.2	73431.2	3.72	3.42	HP410x272	
35-1867	IZ	65.2	73.5	40.0	43.8	47.5	496.7	12.2	11.22	W14X176	D1
		3505.7	1867.0	195.3	213.6	231.9	67835.2	3.72	3.42	W360X262	
35-1791	IZ	65.4	70.5	44.0	47.9	51.9	469.7	12.2	11.22	W12X190	D1
		3514.9	1791.0	215.0	234.1	253.2	64147.3	3.72	3.42	W310X283	
35-1937	IZ	65.5	76.3	27.8	31.7	35.6	886.7	12.2	11.22	W27X102	C1
		3519.9	1937.4	135.8	154.9	174.0	121085.5	3.72	3.42	W690X152	
35-1537	IZ	65.6	60.5	32.1	36.6	41.2	708.8	12.2	11.22	W21X93	D2
		3526.1	1536.6	156.6	178.8	201.1	96792.3	3.72	3.42	W530X138	
35-1968	IZ	65.6	77.5	33.7	37.5	41.4	639.2	12.2	11.22	W18X143	C1
		3526.9	1968.4	164.4	183.2	202.0	87290.9	3.72	3.42	W460X213	
35-1723	IZ	65.8	67.8	30.3	34.3	38.4	891.4	12.2	11.22	W27X102	D1
		3538.8	1723.0	147.9	167.7	187.5	121733.3	3.72	3.42	W690X152	
35-1734	IZ	65.9	68.3	29.5	33.6	37.6	976.1	12.2	11.22	W30X99	D1
		3540.5	1734.0	144.2	163.9	183.6	133301.5	3.72	3.42	W760X147	
35-1790	IZ	65.9	70.5	27.1	31.3	35.5	879.5	12.2	11.22	W27X84	C2
		3542.7	1790.0	132.1	152.8	173.4	120097.0	3.72	3.42	W690X125	
36-1948	IZ	66.0	76.7	27.2	31.1	34.9	977.6	12.2	11.22	W30X99	C1
		3546.0	1948.4	132.7	151.6	170.6	133506.7	3.72	3.42	W760X147	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
36-1697	IZ	66.1	66.8	29.7	35.5	41.3	784.1	13.32	12.27	W24X68	D3
		3551.5	1697.0	144.8	173.2	201.5	107076.7	4.06	3.74	W610X101	
36-2008	IZ	66.2	79.1	29.1	32.9	36.6	802.2	12.2	11.22	W24X117	C1
		3556.7	2008.4	142.0	160.4	178.8	109547.2	3.72	3.42	W610X174	
36-1661	IZ	66.2	65.4	28.8	34.8	40.7	603.0	13.32	12.27	W18X60	D3
		3556.9	1661.0	140.8	169.8	198.8	82341.4	4.06	3.74	W460X89	
36-1877	IZ	66.4	73.9	28.2	33.8	39.4	613.1	13.32	12.27	W18X71	C3
		3570.1	1877.4	137.9	165.0	192.1	83717.8	4.06	3.74	W460X106	
36-1849	IZ	66.5	72.8	29.0	33.1	37.2	710.4	12.2	11.22	W21X101	C2
		3573.3	1849.0	141.5	161.5	181.5	97015.7	3.72	3.42	W530X150	
36-1576	IZ	66.6	62.0	29.7	34.1	38.5	888.7	12.2	11.22	W27X84	D2
		3579.9	1575.6	144.8	166.4	188.1	121357.3	3.72	3.42	W690X125	
36-1943	IZ	66.7	76.5	33.9	37.8	41.7	533.4	12.2	11.22	HP16x141	C2
		3584.5	1943.4	165.7	184.8	203.8	72836.4	3.72	3.42	HP410x211	
36-1894	IZ	66.7	74.6	28.3	33.8	39.3	707.6	13.32	12.27	W21X73	C3
		3585.7	1894.4	138.3	165.2	192.1	96633.6	4.06	3.74	W530X109	
36-1988	IZ	66.8	78.3	32.2	36.1	39.9	585.2	12.2	11.22	HP18x135	C2
		3589.5	1987.8	157.4	176.0	194.6	79913.4	3.72	3.42	HP360x202	
36-1999	IZ	66.8	78.7	31.5	35.3	39.0	728.2	12.2	11.22	W21X132	C1
		3590.0	1999.4	153.6	172.1	190.6	99442.8	3.72	3.42	W530X196	
36-1963	IZ	66.8	77.3	27.7	33.1	38.4	608.8	13.32	12.27	W18X76	C3
		3591.4	1963.4	135.4	161.4	187.3	83140.2	4.06	3.74	W460X113	
36-1607	IZ	66.8	63.3	33.2	37.5	41.9	626.3	12.2	11.22	W18X106	D2
		3593.4	1606.6	162.0	183.3	204.5	85523.4	3.72	3.42	W460X158	
36-2008	IZ	66.9	79.1	43.3	47.0	50.8	492.8	12.2	11.22	W12X210	C1
		3599.1	2008.4	211.2	229.6	248.0	67302.9	3.72	3.42	W310X313	
36-1679	IZ	67.0	66.1	30.0	35.8	41.7	707.9	13.32	12.27	W21X68	D3
		3600.2	1679.0	146.3	175.0	203.7	96665.3	4.06	3.74	W530X101	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
36-2082	IZ	67.0	82.0	39.2	42.8	46.4	518.1	12.2	11.22	W14X193	C1
		3600.6	2082.4	191.2	209.0	226.7	70751.8	3.72	3.42	W360X287	
36-1794	IZ	67.2	70.6	31.6	35.5	39.4	815.2	12.2	11.22	W24X117	D1
		3614.3	1794.0	154.3	173.3	192.4	111321.6	3.72	3.42	W610X174	
36-1754	IZ	67.5	69.1	36.8	40.8	44.8	657.3	12.2	11.22	W18X143	D1
		3626.9	1754.0	179.7	199.2	218.7	89765.6	3.72	3.42	W460X213	
36-1662	IZ	67.5	65.4	29.7	35.6	41.6	619.3	13.32	12.27	W18X65	D3
		3629.8	1662.0	145.0	174.0	202.9	84574.8	4.06	3.74	W460X97	
36-1888	IZ	67.6	74.3	40.8	44.5	48.3	558.1	12.2	11.22	HP16x183	D1
		3634.3	1888.1	199.4	217.5	235.6	76218.1	3.72	3.42	HP410x272	
37-1911	IZ	68.1	75.3	28.5	33.9	39.4	814.9	13.32	12.27	W24X76	C3
		3660.5	1911.4	139.1	165.8	192.4	111279.8	4.06	3.74	W610X113	
37-2141	IZ	68.2	84.3	36.4	39.9	43.5	614.1	12.2	11.22	HP18x181	C1
		3668.3	2140.6	177.7	194.9	212.2	83857.9	3.72	3.42	HP360x269	
37-1767	IZ	68.3	69.6	29.1	33.4	37.7	829.2	12.2	11.22	W24X94	C2
		3670.3	1767.0	142.3	163.2	184.1	113227.9	3.72	3.42	W610X140	
37-1785	IZ	68.4	70.3	34.3	38.2	42.1	745.7	12.2	11.22	W21X132	D1
		3676.3	1785.0	167.4	186.5	205.6	101832.5	3.72	3.42	W530X196	
37-1635	IZ	68.5	64.4	31.7	36.0	40.3	731.8	12.2	11.22	W21X101	D2
		3680.6	1634.6	154.9	175.8	196.7	99929.3	3.72	3.42	W530X150	
37-1680	IZ	68.7	66.1	30.9	36.8	42.7	729.4	13.32	12.27	W21X73	D3
		3696.0	1680.0	150.9	179.6	208.2	99608.5	4.06	3.74	W530X109	
37-1823	IZ	68.8	71.8	32.4	36.5	40.7	652.4	12.2	11.22	W18X119	C2
		3696.5	1823.0	158.1	178.4	198.7	89086.1	3.72	3.42	W460X177	
37-1663	IZ	69.1	65.5	30.8	36.8	42.7	637.8	13.32	12.27	W18X71	D3
		3714.4	1663.0	150.6	179.5	208.5	87102.9	4.06	3.74	W460X106	
37-1749	IZ	69.5	68.9	30.2	35.8	41.4	633.9	13.32	12.27	W18X76	D3
		3739.1	1749.0	147.2	174.7	202.3	86559.6	4.06	3.74	W460X113	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
37-1965	IZ	69.6	77.4	29.3	34.6	39.9	640.0	13.32	12.27	W18X86	C3
		3742.7	1965.4	142.9	168.8	194.7	87391.6	4.06	3.74	W460X128	
37-1773	IZ	69.6	69.8	35.2	39.1	43.1	610.2	12.2	11.22	HP18x135	D2
		3743.1	1773.4	171.7	191.0	210.3	83333.0	3.72	3.42	HP360x202	
38-1697	IZ	69.7	66.8	31.1	36.9	42.7	833.7	13.32	12.27	W24X76	D3
		3745.2	1697.0	151.7	180.1	208.5	113854.8	4.06	3.74	W610X113	
38-1794	IZ	69.7	70.6	47.5	51.4	55.3	513.1	12.2	11.22	W12X210	D1
		3746.7	1794.0	231.7	250.8	269.8	70062.9	3.72	3.42	W310X313	
38-1868	IZ	69.7	73.5	42.7	46.5	50.2	539.3	12.2	11.22	W14X193	D1
		3748.0	1868.0	208.7	227.0	245.3	73648.3	3.72	3.42	W360X287	
38-1895	IZ	69.7	74.6	29.8	35.3	40.8	746.7	13.32	12.27	W21X83	C3
		3748.9	1895.4	145.7	172.5	199.4	101970.5	4.06	3.74	W530X123	
38-1553	IZ	69.8	61.1	32.1	36.6	41.1	847.4	12.2	11.22	W24X94	D2
		3751.0	1552.6	156.5	178.5	200.5	115717.2	3.72	3.42	W610X140	
38-1729	IZ	69.8	68.1	37.2	41.2	45.3	558.7	12.2	11.22	HP16x141	D2
		3754.6	1729.0	181.4	201.2	220.9	76292.9	3.72	3.42	HP410x211	
38-1850	IZ	69.9	72.8	30.6	34.7	38.8	751.1	12.2	11.22	W21X111	C2
		3757.1	1850.0	149.5	169.5	189.4	102568.3	3.72	3.42	W530X165	
38-1970	IZ	69.9	77.6	35.9	39.8	43.6	689.4	12.2	11.22	W18X158	C1
		3758.2	1970.4	175.4	194.2	212.9	94143.5	3.72	3.42	W460X235	
38-1939	IZ	70.4	76.4	29.6	33.5	37.4	960.5	12.2	11.22	W27X114	C1
		3785.2	1939.4	144.6	163.7	182.7	131158.2	3.72	3.42	W690X170	
38-1926	IZ	70.7	75.8	39.5	43.2	46.8	636.5	12.2	11.22	HP18x181	D1
		3802.5	1926.2	193.1	210.8	228.6	86924.6	3.72	3.42	HP360x269	
38-1949	IZ	70.7	76.7	28.6	32.4	36.3	1055.5	12.2	11.22	W30X108	C1
		3803.0	1949.4	139.4	158.4	177.4	144133.2	3.72	3.42	W760X161	
38-1861	IZ	70.7	73.3	29.3	33.4	37.4	850.9	12.2	11.22	W24X104	C2
		3803.5	1861.0	143.1	163.0	182.8	116197.0	3.72	3.42	W610X155	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
38-1791	IZ	71.0	70.5	28.7	32.9	37.1	956.3	12.2	11.22	W27X94	C2
		3818.5	1791.0	139.9	160.6	181.2	130593.8	3.72	3.42	W690X140	
38-1735	IZ	71.1	68.3	31.1	35.1	39.2	1061.1	12.2	11.22	W30X108	D1
		3823.3	1735.0	151.8	171.5	191.2	144903.7	3.72	3.42	W760X161	
38-2084	IZ	71.2	82.1	41.8	45.4	49.0	558.9	12.2	11.22	W14X211	C1
		3825.4	2084.4	203.8	221.6	239.3	76317.0	3.72	3.42	W360X314	
38-1801	IZ	71.2	70.9	27.8	32.0	36.2	1051.2	12.2	11.22	W30X90	C2
		3828.1	1801.0	135.7	156.2	176.7	143552.3	3.72	3.42	W760X134	
38-1725	IZ	71.3	67.9	32.3	36.4	40.4	972.0	12.2	11.22	W27X114	D1
		3830.7	1725.0	157.7	177.5	197.3	132734.7	3.72	3.42	W690X170	
38-1912	IZ	71.3	75.3	29.7	35.2	40.6	859.1	13.32	12.27	W24X84	C3
		3833.8	1912.4	145.2	171.8	198.5	117313.7	4.06	3.74	W610X125	
38-2011	IZ	71.4	79.2	46.2	50.0	53.8	537.2	12.2	11.22	W12X230	C1
		3841.0	2011.4	225.7	244.1	262.4	73362.5	3.72	3.42	W310X342	
39-1609	IZ	71.5	63.3	35.6	40.0	44.3	678.7	12.2	11.22	W18X119	D2
		3845.6	1608.6	174.0	195.2	216.5	92677.9	3.72	3.42	W460X177	
39-2010	IZ	71.7	79.1	31.2	35.0	38.7	877.3	12.2	11.22	W24X131	C1
		3852.2	2010.4	152.4	170.8	189.2	119803.1	3.72	3.42	W610X195	
39-1936	IZ	71.8	76.2	29.5	34.8	40.2	958.4	13.32	12.27	W27X84	C3
		3860.9	1936.4	143.8	170.1	196.4	130883.9	4.06	3.74	W690X125	
39-1947	IZ	71.8	76.6	37.1	41.0	44.9	585.3	12.2	11.22	HP16x162	C2
		3861.0	1946.6	181.1	200.1	219.1	79926.1	3.72	3.42	HP410x242	
39-1587	IZ	71.9	62.5	30.5	34.9	39.3	1061.2	12.2	11.22	W30X90	D2
		3864.4	1586.6	148.7	170.2	191.8	144913.4	3.72	3.42	W760X134	
39-2001	IZ	71.9	78.8	33.8	37.5	41.3	792.4	12.2	11.22	W21X147	C1
		3864.8	2001.4	164.8	183.3	201.8	108214.9	3.72	3.42	W530X219	
39-1681	IZ	72.1	66.2	32.6	38.5	44.3	771.6	13.32	12.27	W21X83	D3
		3873.8	1681.0	159.2	187.9	216.5	105366.7	4.06	3.74	W530X123	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
39-1756	IZ	72.1	69.1	39.3	43.3	47.3	711.5	12.2	11.22	W18X158	D1
		3878.9	1756.0	192.0	211.5	230.9	97167.5	3.72	3.42	W460X235	
39-1636	IZ	72.2	64.4	33.6	37.9	42.1	776.4	12.2	11.22	W21X111	D2
		3883.8	1635.6	163.9	184.8	205.7	106028.7	3.72	3.42	W530X165	
39-1577	IZ	72.3	62.1	31.5	35.9	40.3	973.1	12.2	11.22	W27X94	D2
		3885.6	1576.6	153.6	175.3	197.0	132886.3	3.72	3.42	W690X140	
39-1766	IZ	72.3	69.5	30.6	34.9	39.2	887.0	12.2	11.22	W24X103	C2
		3888.5	1766.0	149.5	170.4	191.3	121128.3	3.72	3.42	W610X153	
39-1991	IZ	72.5	78.4	35.5	39.3	43.1	642.8	12.2	11.22	HP18x157	C2
		3899.9	1991.0	173.2	191.8	210.3	87786.7	3.72	3.42	HP360x234	
39-1751	IZ	72.6	68.9	31.9	37.5	43.1	667.4	13.32	12.27	W18X86	D3
		3903.4	1751.0	155.6	183.1	210.6	91143.9	4.06	3.74	W460X128	
39-1647	IZ	72.6	64.8	32.1	36.3	40.6	873.6	12.2	11.22	W24X104	D2
		3905.0	1646.6	156.6	177.4	198.1	119297.6	3.72	3.42	W610X155	
39-1966	IZ	72.7	77.4	31.0	36.3	41.6	675.5	13.32	12.27	W18X97	C3
		3908.7	1966.4	151.2	177.1	203.0	92245.8	4.06	3.74	W460X144	
39-1820	IZ	72.8	71.7	34.3	38.5	42.6	700.4	12.2	11.22	W18X130	C2
		3911.9	1820.0	167.5	187.8	208.1	95645.2	3.72	3.42	W460X193	
39-1897	IZ	72.8	74.7	31.4	36.9	42.4	786.5	13.32	12.27	W21X93	C3
		3912.8	1897.4	153.4	180.2	207.1	107406.3	4.06	3.74	W530X138	
39-2055	IZ	72.8	80.9	29.6	32.9	36.2	1260.8	8.35	25.36	IZ B2	B2
		3913.0	2055.0	144.4	160.5	176.7	172171.6	2.54	7.73	IZ B2	
39-1722	IZ	73.2	67.8	32.1	37.8	43.6	976.7	13.32	12.27	W27X84	D3
		3934.5	1722.0	156.8	184.8	212.7	133380.3	4.06	3.74	W690X125	
39-1698	IZ	73.2	66.8	32.5	38.3	44.1	881.7	13.32	12.27	W24X84	D3
		3934.7	1698.0	158.6	186.9	215.3	120403.1	4.06	3.74	W610X125	
39-1796	IZ	73.2	70.7	34.0	37.9	41.8	896.9	12.2	11.22	W24X131	D1
		3938.1	1796.0	165.9	184.9	203.9	122473.8	3.72	3.42	W610X195	

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		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
40-1852	IZ	73.8	72.9	32.3	36.4	40.5	800.2	12.2	11.22	W21X122	C2
		3966.3	1852.0	157.8	177.8	197.7	109271.8	3.72	3.42	W530X182	
40-1787	IZ	74.0	70.4	36.8	40.8	44.7	815.4	12.2	11.22	W21X147	D1
		3976.9	1787.0	179.9	199.0	218.2	111353.0	3.72	3.42	W530X219	
40-1552	IZ	74.2	61.1	33.7	38.2	42.8	910.5	12.2	11.22	W24X103	D2
		3991.6	1551.6	164.7	186.7	208.7	124337.8	3.72	3.42	W610X153	
40-1870	IZ	74.2	73.6	45.6	49.4	53.1	583.2	12.2	11.22	W14X211	D1
		3991.7	1870.0	222.7	241.0	259.3	79634.7	3.72	3.42	W360X314	
40-2144	IZ	74.4	84.4	39.7	43.3	46.8	680.9	12.2	11.22	HP18x204	C1
		3997.6	2143.8	193.9	211.2	228.4	92988.1	3.72	3.42	HP460x304	
40-1797	IZ	74.5	70.7	50.8	54.7	58.6	560.5	12.2	11.22	W12X230	D1
		4007.6	1797.0	247.9	266.9	286.0	76545.9	3.72	3.42	W310X342	
40-1995	IZ	74.8	78.6	31.2	36.4	41.6	799.5	13.32	12.27	W21X101	C3
		4021.3	1995.4	152.1	177.7	203.2	109177.1	4.06	3.74	W530X150	
40-1967	IZ	75.0	77.5	32.3	37.6	42.9	702.4	13.32	12.27	W18X106	C3
		4030.4	1967.4	157.9	183.8	209.7	95924.7	4.06	3.74	W460X158	
40-1935	IZ	75.0	76.2	39.5	43.4	47.3	571.1	12.2	11.22	W14X176	C2
		4030.7	1935.0	192.8	211.9	231.0	77994.8	3.72	3.42	W360X262	
40-1913	IZ	75.2	75.3	31.4	36.9	42.3	912.9	13.32	12.27	W24X94	C3
		4041.2	1913.4	153.3	179.9	206.6	124670.0	4.06	3.74	W610X140	
41-1950	IZ	75.3	76.8	29.9	33.7	37.6	1128.8	12.2	11.22	W30X116	C1
		4046.0	1950.4	145.8	164.8	183.7	154151.2	3.72	3.42	W760X173	
41-1791	IZ	75.3	70.5	30.1	34.3	38.6	1020.2	12.2	11.22	W27X102	C2
		4049.8	1791.0	146.9	167.6	188.2	139313.8	3.72	3.42	W690X152	
41-1683	IZ	75.4	66.3	34.4	40.3	46.1	814.5	13.32	12.27	W21X93	D3
		4052.1	1683.0	167.9	196.5	225.1	111230.8	4.06	3.74	W530X138	
41-1972	IZ	75.4	77.7	38.5	42.3	46.2	755.2	12.2	11.22	W18X175	C1
		4052.3	1972.4	188.0	206.7	225.4	103130.9	3.72	3.42	W460X260	

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		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
41-1802	IZ	75.4	70.9	29.4	33.6	37.8	1117.7	12.2	11.22	W30X99	C2
		4054.0	1802.0	143.4	164.0	184.5	152632.8	3.72	3.42	W760X147	
41-1732	IZ	75.5	68.2	40.7	44.7	48.8	614.9	12.2	11.22	HP16x162	D2
		4056.5	1732.2	198.6	218.4	238.1	83973.6	3.72	3.42	HP410x242	
41-1947	IZ	75.6	76.7	30.1	35.5	40.8	1116.8	13.32	12.27	W30X90	C3
		4067.1	1947.4	147.0	173.2	199.3	152515.0	4.06	3.74	W760X134	
41-2013	IZ	75.8	79.3	49.5	53.2	57.0	583.2	12.2	11.22	W12X252	C1
		4073.9	2013.4	241.4	259.8	278.2	79643.8	3.72	3.42	W310X375	
41-1606	IZ	75.9	63.2	37.8	42.2	46.5	730.6	12.2	11.22	W18X130	D2
		4080.5	1605.6	184.6	205.9	227.2	99767.6	3.72	3.42	W460X193	
41-1752	IZ	76.0	69.0	33.8	39.4	45.0	705.7	13.32	12.27	W18X97	D3
		4083.5	1752.0	164.9	192.4	219.8	96370.5	4.06	3.74	W460X144	
41-1777	IZ	76.0	69.9	38.8	42.7	46.7	673.1	12.2	11.22	HP18x157	D2
		4083.6	1776.6	189.4	208.6	227.8	91921.3	3.72	3.42	HP360x234	
41-1736	IZ	76.1	68.3	32.6	36.6	40.6	1141.3	12.2	11.22	W30X116	D1
		4090.8	1736.0	159.0	178.7	198.3	155860.7	3.72	3.42	W760X173	
41-2087	IZ	76.1	82.2	44.9	48.6	52.2	609.7	12.2	11.22	W14X233	C1
		4091.7	2087.4	219.3	237.1	254.8	83266.1	3.72	3.42	W360X347	
41-1862	IZ	76.2	73.3	31.4	35.4	39.5	923.9	12.2	11.22	W24X117	C2
		4096.5	1862.0	153.1	173.0	192.9	126173.2	3.72	3.42	W610X174	
41-1937	IZ	76.5	76.3	30.9	36.3	41.7	1029.5	13.32	12.27	W27X94	C3
		4110.6	1937.4	151.0	177.3	203.6	140581.9	4.06	3.74	W690X140	
41-1638	IZ	76.5	64.5	35.5	39.8	44.0	830.0	12.2	11.22	W21X122	D2
		4114.2	1637.6	173.3	194.2	215.0	113345.6	3.72	3.42	W530X182	
41-1588	IZ	76.6	62.5	32.3	36.7	41.1	1135.0	12.2	11.22	W30X99	D2
		4116.7	1587.6	157.5	179.0	200.6	154992.0	3.72	3.42	W760X147	
41-1956	IZ	76.8	77.0	40.3	44.2	48.0	633.8	12.2	11.22	HP16x183	C2
		4127.1	1956.1	196.8	215.7	234.6	86554.5	3.72	3.42	HP410x272	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
41-1733	IZ	76.8	68.2	32.8	38.5	44.2	1134.1	13.32	12.27	W30X90	D3
		4129.9	1733.0	160.4	188.1	215.9	154870.0	4.06	3.74	W760X134	
41-1822	IZ	77.0	71.7	36.4	40.5	44.7	750.5	12.2	11.22	W18X143	C2
		4141.2	1822.0	177.6	197.9	218.2	102493.6	3.72	3.42	W460X213	
41-1577	IZ	77.1	62.1	33.1	37.5	42.0	1043.5	12.2	11.22	W27X102	D2
		4142.5	1576.6	161.6	183.3	204.9	142501.0	3.72	3.42	W690X152	
42-2007	IZ	77.3	79.0	31.5	36.7	41.8	929.2	13.32	12.27	W24X104	C3
		4153.4	2007.4	153.6	178.9	204.3	126886.9	4.06	3.74	W610X155	
42-1699	IZ	77.4	66.9	34.4	40.2	46.0	940.2	13.32	12.27	W24X94	D3
		4161.7	1699.0	167.7	196.1	224.4	128388.9	4.06	3.74	W610X140	
42-1929	IZ	77.4	76.0	43.2	46.9	50.5	708.9	12.2	11.22	HP18x204	D1
		4161.8	1929.4	211.1	228.9	246.6	96807.6	3.72	3.42	HP460x304	
42-1853	IZ	77.5	73.0	33.9	38.0	42.1	844.7	12.2	11.22	W21X132	C2
		4164.3	1853.0	165.8	185.7	205.7	115351.3	3.72	3.42	W530X196	
42-1937	IZ	77.6	76.3	32.0	35.9	39.8	1072.6	12.2	11.22	W27X129	C1
		4173.1	1937.4	156.1	175.2	194.3	146475.1	3.72	3.42	W690X192	
42-1781	IZ	77.6	70.1	33.9	39.5	45.0	829.8	13.32	12.27	W21X101	D3
		4173.7	1781.0	165.7	192.8	219.8	113315.4	4.06	3.74	W530X150	
42-1996	IZ	77.9	78.6	32.7	37.9	43.1	837.1	13.32	12.27	W21X111	C3
		4187.4	1996.4	159.5	185.0	210.6	114316.5	4.06	3.74	W530X165	
42-1758	IZ	78.1	69.2	42.2	46.2	50.2	782.6	12.2	11.22	W18X175	D1
		4199.4	1758.0	206.1	225.5	245.0	106874.3	3.72	3.42	W460X260	
42-2011	IZ	78.2	79.2	33.4	37.2	41.0	967.3	12.2	11.22	W24X146	C1
		4206.9	2011.4	163.2	181.6	200.0	132095.9	3.72	3.42	W610X217	
42-1723	IZ	78.3	67.8	33.8	39.5	45.2	1053.9	13.32	12.27	W27X94	D3
		4208.3	1723.0	164.9	192.9	220.8	143922.7	4.06	3.74	W690X140	
42-1753	IZ	78.4	69.0	35.3	40.9	46.6	734.7	13.32	12.27	W18X106	D3
		4215.4	1753.0	172.4	199.9	227.3	100326.4	4.06	3.74	W460X158	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
42-1648	IZ	78.7	64.9	34.4	38.7	42.9	953.9	12.2	11.22	W24X117	D2
		4229.5	1647.6	168.0	188.7	209.5	130269.1	3.72	3.42	W610X174	
42-1969	IZ	78.7	77.5	34.3	39.6	44.9	746.9	13.32	12.27	W18X119	C3
		4232.3	1969.4	167.7	193.6	219.4	101997.5	4.06	3.74	W460X177	
42-1912	IZ	78.8	75.3	32.8	38.2	43.7	966.4	13.32	12.27	W24X103	C3
		4236.6	1912.4	160.0	186.6	213.2	131971.6	4.06	3.74	W610X153	
43-1721	IZ	79.1	67.7	43.4	47.5	51.5	602.5	12.2	11.22	W14X176	D2
		4252.1	1720.6	212.0	231.8	251.7	82278.7	3.72	3.42	W360X262	
43-1723	IZ	79.2	67.8	35.0	39.0	43.1	1093.9	12.2	11.22	W27X129	D1
		4255.9	1723.0	170.7	190.5	210.3	149381.5	3.72	3.42	W690X192	
43-1799	IZ	79.2	70.8	54.4	58.3	62.2	609.5	12.2	11.22	W12X252	D1
		4257.7	1799.0	265.6	284.5	303.5	83238.3	3.72	3.42	W310X375	
43-1994	IZ	79.3	78.5	39.1	42.9	46.7	713.9	12.2	11.22	HP18x181	C2
		4264.9	1994.2	190.7	209.3	227.8	97495.8	3.72	3.42	HP360x269	
43-1936	IZ	79.3	76.2	42.1	46.0	49.9	613.7	12.2	11.22	W14X193	C2
		4265.1	1936.0	205.7	224.8	243.9	83808.6	3.72	3.42	W360X287	
43-1948	IZ	79.5	76.7	31.6	36.9	42.3	1178.3	13.32	12.27	W30X99	C3
		4273.8	1948.4	154.2	180.3	206.5	160908.6	4.06	3.74	W760X147	
43-1950	IZ	79.5	76.8	31.0	34.9	38.8	1199.0	12.2	11.22	W30X124	C1
		4275.0	1950.4	151.4	170.4	189.3	163732.2	3.72	3.42	W760X185	
43-1873	IZ	79.6	73.7	49.1	52.9	56.6	637.7	12.2	11.22	W14X233	D1
		4279.2	1873.0	240.0	258.2	276.5	87081.2	3.72	3.42	W360X347	
43-1793	IZ	79.8	70.6	34.3	39.8	45.3	959.4	13.32	12.27	W24X104	D3
		4288.5	1793.0	167.2	194.1	220.9	131012.7	4.06	3.74	W610X155	
43-1998	IZ	79.9	78.7	36.7	40.5	44.3	897.7	12.2	11.22	W21X166	C1
		4293.9	1998.4	179.2	197.7	216.2	122591.4	3.72	3.42	W530X248	
43-1975	IZ	80.0	77.8	29.7	33.6	37.4	1315.1	12.2	11.22	W33X118	C1
		4301.4	1975.4	145.2	163.9	182.6	179581.8	3.72	3.42	W840X176	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
43-1937	IZ	80.4	76.3	32.3	37.6	43.0	1088.5	13.32	12.27	W27X102	C3
		4321.0	1937.4	157.5	183.8	210.1	148643.1	4.06	3.74	W690X152	
43-1797	IZ	80.5	70.7	36.5	40.4	44.3	995.0	12.2	11.22	W24X146	D1
		4327.4	1797.0	178.0	197.1	216.1	135880.2	3.72	3.42	W610X217	
43-1803	IZ	80.5	71.0	30.9	35.1	39.3	1201.8	12.2	11.22	W30X108	C2
		4330.1	1803.0	150.8	171.3	191.8	164111.7	3.72	3.42	W760X161	
43-1608	IZ	80.6	63.3	40.2	44.5	48.9	785.2	12.2	11.22	W18X143	D2
		4332.2	1607.6	196.1	217.3	238.6	107221.4	3.72	3.42	W460X213	
43-1639	IZ	80.6	64.5	37.3	41.6	45.9	879.0	12.2	11.22	W21X132	D2
		4333.4	1638.6	182.3	203.2	224.0	120036.3	3.72	3.42	W530X196	
43-1793	IZ	80.6	70.6	32.0	36.3	40.5	1099.8	12.2	11.22	W27X114	C2
		4334.4	1793.0	156.4	177.0	197.6	150188.6	3.72	3.42	W690X170	
43-1736	IZ	80.8	68.3	33.9	37.9	41.9	1218.1	12.2	11.22	W30X124	D1
		4343.1	1736.0	165.3	185.0	204.7	166342.2	3.72	3.42	W760X185	
43-1761	IZ	80.8	69.3	32.4	36.3	40.3	1328.0	12.2	11.22	W33X118	D1
		4343.8	1761.0	158.1	177.5	196.9	181352.7	3.72	3.42	W840X176	
44-1742	IZ	80.9	68.6	44.3	48.3	52.3	667.8	12.2	11.22	HP16x183	D2
		4348.2	1741.7	216.2	235.8	255.4	91191.2	3.72	3.42	HP410x272	
44-1782	IZ	81.0	70.2	35.6	41.2	46.7	870.7	13.32	12.27	W21X111	D3
		4355.5	1782.0	174.0	201.0	228.0	118906.2	4.06	3.74	W530X165	
44-1734	IZ	81.1	68.3	34.5	40.2	45.9	1201.6	13.32	12.27	W30X99	D3
		4358.4	1734.0	168.4	196.2	223.9	164092.0	4.06	3.74	W760X147	
44-1998	IZ	81.4	78.7	34.2	39.5	44.7	882.5	13.32	12.27	W21X122	C3
		4374.5	1998.4	167.2	192.7	218.2	120517.1	4.06	3.74	W530X182	
44-1698	IZ	81.4	66.8	35.9	41.7	47.5	997.9	13.32	12.27	W24X103	D3
		4374.8	1698.0	175.2	203.6	231.9	136273.7	4.06	3.74	W610X153	
44-1824	IZ	81.6	71.8	38.8	43.0	47.1	804.6	12.2	11.22	W18X158	C2
		4386.4	1824.0	189.5	209.7	230.0	109879.6	3.72	3.42	W460X235	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
44-2089	IZ	81.6	82.3	48.4	52.0	55.7	668.2	12.2	11.22	W14X257	C1
		4386.9	2089.4	236.4	254.1	271.8	91247.6	3.72	3.42	W360X382	
44-2017	IZ	81.6	79.4	53.3	57.1	60.8	647.7	12.2	11.22	W12X279	C1
		4389.6	2017.4	260.4	278.7	297.1	88450.8	3.72	3.42	W310X415	
44-2055	IZ	81.8	80.9	32.9	36.2	39.5	1417.5	8.33	25.3	IZ A2	A2
		4399.3	2055.0	160.4	176.6	192.7	193567.6	2.54	7.71	IZ A2	
44-1864	IZ	82.1	73.4	33.7	37.7	41.8	1004.8	12.2	11.22	W24X131	C2
		4412.1	1864.0	164.4	184.2	204.0	137216.8	3.72	3.42	W610X195	
44-2008	IZ	82.2	79.1	33.4	38.6	43.8	996.9	13.32	12.27	W24X117	C3
		4419.8	2008.4	162.9	188.2	213.6	136130.5	4.06	3.74	W610X174	
44-1966	IZ	82.2	77.4	36.1	41.4	46.7	791.5	13.32	12.27	W18X130	C3
		4420.8	1966.4	176.3	202.2	228.1	108088.1	4.06	3.74	W460X193	
44-1589	IZ	82.3	62.5	34.0	38.4	42.8	1227.7	12.2	11.22	W30X108	D2
		4423.5	1588.6	165.8	187.3	208.8	167649.8	3.72	3.42	W760X161	
44-1755	IZ	82.5	69.1	37.6	43.2	48.8	782.6	13.32	12.27	W18X119	D3
		4434.3	1755.0	183.4	210.8	238.3	106867.2	4.06	3.74	W460X177	
44-1723	IZ	82.6	67.8	35.3	41.0	46.7	1118.3	13.32	12.27	W27X102	D3
		4439.5	1723.0	172.2	200.2	228.1	152720.4	4.06	3.74	W690X152	
44-1784	IZ	82.7	70.2	40.2	44.1	48.0	929.3	12.2	11.22	W21X166	D1
		4444.8	1784.0	196.1	215.2	234.4	126900.1	3.72	3.42	W530X248	
45-1855	IZ	82.9	73.0	36.4	40.5	44.6	913.9	12.2	11.22	W21X147	C2
		4457.1	1855.0	177.8	197.8	217.7	124798.5	3.72	3.42	W530X219	
45-1579	IZ	82.9	62.1	35.3	39.7	44.2	1131.4	12.2	11.22	W27X114	D2
		4458.8	1578.6	172.3	194.0	215.6	154496.2	3.72	3.42	W690X170	
45-1780	IZ	83.4	70.1	42.8	46.7	50.7	750.3	12.2	11.22	HP18x181	D2
		4482.0	1779.8	209.0	228.2	247.4	102457.8	3.72	3.42	HP360x269	
45-1951	IZ	83.4	76.8	32.3	36.2	40.1	1264.8	12.2	11.22	W30X132	C1
		4486.1	1951.4	157.8	176.7	195.7	172713.7	3.72	3.42	W760X196	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
45-1938	IZ	83.7	76.3	44.9	48.8	52.7	657.5	12.2	11.22	W14X211	C2
		4500.3	1938.0	219.2	238.3	257.4	89780.8	3.72	3.42	W360X314	
45-1722	IZ	83.8	67.8	46.4	50.4	54.5	648.6	12.2	11.22	W14X193	D2
		4507.8	1721.6	226.4	246.3	266.1	88577.7	3.72	3.42	W360X287	
45-1949	IZ	84.2	76.7	33.0	38.3	43.7	1256.0	13.32	12.27	W30X108	C3
		4525.6	1949.4	161.0	187.1	213.2	171521.2	4.06	3.74	W760X161	
45-2038	IZ	84.2	80.3	33.1	36.8	40.5	1152.0	12.2	11.22	W27X146	C1
		4527.2	2038.4	161.5	179.6	197.7	157319.7	3.72	3.42	W690X217	
46-2012	IZ	84.6	79.2	35.9	39.7	43.4	1057.8	12.2	11.22	W24X162	C1
		4549.7	2012.4	175.3	193.6	212.0	144451.5	3.72	3.42	W610X241	
46-1999	IZ	84.7	78.7	35.8	41.0	46.2	923.7	13.32	12.27	W21X132	C3
		4554.0	1999.4	174.6	200.1	225.6	126145.9	4.06	3.74	W530X196	
46-1784	IZ	84.8	70.2	37.4	42.9	48.5	919.8	13.32	12.27	W21X122	D3
		4559.3	1784.0	182.6	209.6	236.6	125608.2	4.06	3.74	W530X182	
46-1737	IZ	85.1	68.4	35.3	39.3	43.4	1290.0	12.2	11.22	W30X132	D1
		4575.5	1737.0	172.4	192.1	211.8	176157.9	3.72	3.42	W760X196	
46-1650	IZ	85.2	64.9	37.0	41.2	45.5	1042.7	12.2	11.22	W24X131	D2
		4578.4	1649.6	180.6	201.3	222.0	142388.1	3.72	3.42	W610X195	
46-1939	IZ	85.2	76.4	34.0	39.4	44.8	1162.0	13.32	12.27	W27X114	C3
		4579.7	1939.4	166.2	192.5	218.8	158687.3	4.06	3.74	W690X170	
46-1794	IZ	85.2	70.6	36.4	41.9	47.4	1033.1	13.32	12.27	W24X117	D3
		4580.6	1794.0	177.7	204.5	231.3	141082.3	4.06	3.74	W610X174	
46-2001	IZ	85.3	78.8	39.1	42.9	46.7	968.7	12.2	11.22	W21X182	C1
		4585.4	2001.4	191.1	209.6	228.1	132289.6	3.72	3.42	W530X272	
46-1804	IZ	85.4	71.0	32.3	36.5	40.7	1281.0	12.2	11.22	W30X116	C2
		4591.4	1804.0	157.6	178.1	198.6	174931.5	3.72	3.42	W760X173	
46-1803	IZ	85.5	71.0	58.7	62.6	66.5	678.4	12.2	11.22	W12X279	D1
		4597.7	1803.0	286.7	305.7	324.6	92642.9	3.72	3.42	W310X415	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
46-1875	IZ	85.5	73.8	53.0	56.8	60.5	700.4	12.2	11.22	W14X257	D1
		4598.2	1875.0	259.0	277.2	295.4	95642.7	3.72	3.42	W360X382	
46-1610	IZ	85.6	63.4	42.9	47.3	51.6	844.1	12.2	11.22	W18X158	D2
		4601.8	1609.6	209.5	230.7	251.9	115275.0	3.72	3.42	W460X235	
46-1997	IZ	85.8	78.6	42.6	46.4	50.2	785.5	12.2	11.22	HP18x204	C2
		4611.7	1997.4	208.2	226.7	245.2	107273.6	3.72	3.42	HP460x304	
46-1968	IZ	86.0	77.5	38.0	43.3	48.6	837.8	13.32	12.27	W18X143	C3
		4622.8	1968.4	185.7	211.6	237.5	114414.4	4.06	3.74	W460X213	
46-1735	IZ	86.2	68.3	36.0	41.7	47.4	1286.5	13.32	12.27	W30X108	D3
		4635.3	1735.0	176.0	203.8	231.5	175676.4	4.06	3.74	W760X161	
46-1752	IZ	86.3	69.0	39.6	45.2	50.8	830.3	13.32	12.27	W18X130	D3
		4637.6	1752.0	193.1	220.6	248.1	113388.8	4.06	3.74	W460X193	
47-1824	IZ	86.6	71.8	36.0	39.9	43.7	1184.5	12.2	11.22	W27X146	D1
		4654.8	1824.0	175.8	194.6	213.3	161753.6	3.72	3.42	W690X217	
47-1641	IZ	86.6	64.6	40.1	44.4	48.7	954.8	12.2	11.22	W21X147	D2
		4656.6	1640.6	196.0	216.8	237.6	130384.2	3.72	3.42	W530X219	
47-1975	IZ	87.1	77.8	31.6	35.4	39.3	1440.9	12.2	11.22	W33X130	C1
		4684.8	1975.4	154.3	173.0	191.7	196762.9	3.72	3.42	W840X193	
47-1826	IZ	87.4	71.9	41.6	45.7	49.9	875.6	12.2	11.22	W18X175	C2
		4698.2	1826.0	203.0	223.3	243.5	119570.3	3.72	3.42	W460X260	
47-1798	IZ	87.5	70.8	39.2	43.1	47.0	1093.4	12.2	11.22	W24X162	D1
		4702.9	1798.0	191.5	210.5	229.5	149316.5	3.72	3.42	W610X241	
47-2010	IZ	87.5	79.1	35.5	40.7	45.9	1071.8	13.32	12.27	W24X131	C3
		4706.1	2010.4	173.3	198.6	223.9	146360.0	4.06	3.74	W610X195	
47-1590	IZ	87.7	62.6	35.6	40.0	44.4	1315.2	12.2	11.22	W30X116	D2
		4714.0	1589.6	173.6	195.1	216.6	179601.6	3.72	3.42	W760X173	
47-2019	IZ	87.7	79.5	57.3	61.0	64.8	716.4	12.2	11.22	W12X305	C1
		4714.7	2019.4	279.6	297.9	316.2	97830.2	3.72	3.42	W310X454	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
47-1725	IZ	87.9	67.9	37.3	43.0	48.7	1198.6	13.32	12.27	W27X114	D3
		4724.0	1725.0	182.0	209.9	237.9	163685.8	4.06	3.74	W690X170	
47-2092	IZ	88.1	82.4	52.1	55.7	59.4	736.7	12.2	11.22	W14X283	C1
		4734.5	2092.4	254.5	272.1	289.8	100608.8	3.72	3.42	W360X421	
48-1791	IZ	88.4	70.5	34.6	38.8	43.0	1221.3	12.2	11.22	W27X129	C2
		4751.5	1791.0	168.9	189.5	210.1	166778.8	3.72	3.42	W690X192	
48-1785	IZ	88.5	70.3	39.1	44.6	50.1	964.7	13.32	12.27	W21X132	D3
		4756.1	1785.0	190.9	217.8	244.8	131743.3	4.06	3.74	W530X196	
48-2141	IZ	88.5	84.3	40.4	45.3	50.2	796.7	13.32	12.27	HP18x181	C3
		4759.4	2140.6	197.3	221.1	244.9	108799.5	4.06	3.74	HP360x269	
48-1787	IZ	88.6	70.4	42.9	46.8	50.7	1006.4	12.2	11.22	W21X182	D1
		4763.8	1787.0	209.3	228.5	247.6	137434.7	3.72	3.42	W530X272	
48-1950	IZ	88.6	76.8	34.3	39.6	45.0	1329.3	13.32	12.27	W30X116	C3
		4764.4	1950.4	167.3	193.4	219.6	181525.1	4.06	3.74	W760X173	
48-1724	IZ	88.6	67.9	49.5	53.6	57.6	696.1	12.2	11.22	W14X211	D2
		4764.7	1723.6	241.6	261.5	281.3	95055.2	3.72	3.42	W360X314	
48-1761	IZ	88.7	69.3	34.5	38.4	42.4	1466.2	12.2	11.22	W33X130	D1
		4767.2	1761.0	168.3	187.7	207.1	200220.9	3.72	3.42	W840X193	
48-1941	IZ	88.9	76.4	48.3	52.2	56.1	712.0	12.2	11.22	W14X233	C2
		4778.0	1941.0	235.9	254.9	274.0	97233.2	3.72	3.42	W360X347	
48-1865	IZ	89.1	73.4	36.1	40.1	44.2	1101.8	12.2	11.22	W24X146	C2
		4791.9	1865.0	176.1	195.9	215.7	150465.3	3.72	3.42	W610X217	
48-1867	IZ	89.3	73.5	53.3	57.4	61.4	687.5	12.2	11.22	W12X252	C2
		4802.1	1867.0	260.4	280.2	300.0	93880.4	3.72	3.42	W310X375	
48-2001	IZ	89.6	78.8	38.1	43.3	48.5	987.8	13.32	12.27	W21X147	C3
		4817.5	2001.4	185.8	211.3	236.7	134891.2	4.06	3.74	W530X219	
48-1804	IZ	90.0	71.0	33.5	37.7	41.9	1356.9	12.2	11.22	W30X124	C2
		4837.9	1804.0	163.7	184.2	204.7	185290.0	3.72	3.42	W760X185	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
48-1970	IZ	90.0	77.6	40.3	45.6	50.9	887.8	13.32	12.27	W18X158	C3
		4839.9	1970.4	196.7	222.5	248.4	121239.5	4.06	3.74	W460X235	
48-1829	IZ	90.0	72.0	32.1	36.2	40.4	1480.0	12.2	11.22	W33X118	C2
		4841.0	1829.0	156.8	177.0	197.2	202113.6	3.72	3.42	W840X176	
49-1754	IZ	90.3	69.1	41.7	47.3	53.0	880.2	13.32	12.27	W18X143	D3
		4856.8	1754.0	203.6	231.1	258.5	120204.9	4.06	3.74	W460X213	
49-1783	IZ	90.5	70.2	46.8	50.7	54.6	828.4	12.2	11.22	HP18x204	D2
		4863.3	1783.0	228.5	247.6	266.8	113124.7	3.72	3.42	HP460x304	
49-2010	IZ	90.5	79.1	37.9	41.7	45.5	1142.1	12.2	11.22	W24X176	C1
		4866.4	2010.4	185.2	203.6	222.0	155967.5	3.72	3.42	W610X262	
49-2039	IZ	90.7	80.3	35.3	39.1	42.8	1251.8	12.2	11.22	W27X161	C1
		4877.1	2039.4	172.5	190.7	208.8	170943.9	3.72	3.42	W690X240	
49-1796	IZ	91.0	70.7	38.8	44.3	49.7	1114.5	13.32	12.27	W24X131	D3
		4893.9	1796.0	189.3	216.1	242.9	152201.4	4.06	3.74	W610X195	
49-1736	IZ	91.1	68.3	37.5	43.2	48.9	1366.6	13.32	12.27	W30X116	D3
		4898.0	1736.0	183.1	210.9	238.6	186615.7	4.06	3.74	W760X173	
49-1852	IZ	91.4	72.9	39.6	43.7	47.8	1027.7	12.2	11.22	W21X166	C2
		4915.5	1852.0	193.4	213.4	233.3	140338.4	3.72	3.42	W530X248	
49-1577	IZ	91.5	62.1	38.2	42.6	47.1	1264.8	12.2	11.22	W27X129	D2
		4920.7	1576.6	186.5	208.2	229.8	172716.6	3.72	3.42	W690X192	
49-2055	IZ	92.0	80.9	31.1	34.4	37.8	1955.1	8.35	26.67	IZ B3	B3
		4944.1	2055.0	152.0	168.2	184.3	266983.3	2.54	8.13	IZ B3	
49-1612	IZ	92.0	63.4	46.0	50.4	54.7	921.5	12.2	11.22	W18X175	D2
		4944.6	1611.6	224.8	246.0	267.2	125841.1	3.72	3.42	W460X260	
50-1805	IZ	92.0	71.1	63.1	67.0	70.9	751.8	12.2	11.22	W12X305	D1
		4947.6	1805.0	308.2	327.1	346.0	102663.3	3.72	3.42	W310X454	
50-2002	IZ	92.0	78.8	42.0	45.8	49.6	1059.9	12.2	11.22	W21X201	C1
		4948.1	2002.4	205.1	223.6	242.1	144733.3	3.72	3.42	W530X300	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
50-1975	IZ	92.0	77.8	34.1	39.4	44.6	1513.0	13.32	12.27	W33X118	C3
		4948.7	1975.4	166.4	192.2	218.0	206609.2	4.06	3.74	W840X176	
50-1937	IZ	92.2	76.3	36.4	41.8	47.2	1274.4	13.32	12.27	W27X129	C3
		4958.2	1937.4	177.8	204.1	230.3	174032.6	4.06	3.74	W690X192	
50-1615	IZ	92.2	63.6	35.3	39.6	44.0	1516.1	12.2	11.22	W33X118	D2
		4959.0	1614.6	172.4	193.5	214.7	207037.4	3.72	3.42	W840X176	
50-1949	IZ	92.3	76.7	34.8	38.7	42.6	1414.7	12.2	11.22	W30X148	C1
		4959.9	1949.4	170.0	189.0	208.0	193187.3	3.72	3.42	W760X220	
50-1878	IZ	92.5	73.9	57.2	60.9	64.6	774.2	12.2	11.22	W14X283	D1
		4975.1	1878.0	279.0	297.2	315.4	105721.7	3.72	3.42	W360X421	
50-1987	IZ	92.7	78.2	32.1	35.9	39.8	1647.0	12.2	11.22	W36X135	C1
		4981.5	1987.4	156.9	175.5	194.1	224916.6	3.72	3.42	W920X201	
50-1590	IZ	92.8	62.6	37.0	41.4	45.8	1399.0	12.2	11.22	W30X124	D2
		4988.2	1589.6	180.5	202.0	223.5	191048.4	3.72	3.42	W760X185	
50-1950	IZ	92.8	76.8	35.4	40.8	46.1	1399.4	13.32	12.27	W30X124	C3
		4989.7	1950.4	172.9	199.1	225.2	191106.0	4.06	3.74	W760X185	
50-1651	IZ	93.0	65.0	39.7	43.9	48.2	1149.5	12.2	11.22	W24X146	D2
		4999.1	1650.6	193.8	214.5	235.2	156971.5	3.72	3.42	W610X217	
50-1926	IZ	93.3	75.8	44.0	49.1	54.2	839.5	13.32	12.27	HP18x181	D3
		5015.0	1926.2	214.9	239.9	264.9	114642.7	4.06	3.74	HP360x269	
50-1976	IZ	93.6	77.8	33.3	37.1	41.0	1559.2	12.2	11.22	W33X141	C1
		5033.6	1976.4	162.6	181.3	200.0	212922.7	3.72	3.42	W840X210	
50-1825	IZ	93.7	71.8	38.5	42.4	46.2	1293.4	12.2	11.22	W27X161	D1
		5039.2	1825.0	188.2	206.9	225.7	176624.9	3.72	3.42	W690X240	
50-1787	IZ	93.8	70.4	41.7	47.2	52.7	1034.2	13.32	12.27	W21X147	D3
		5043.9	1787.0	203.4	230.3	257.3	141230.3	4.06	3.74	W530X219	
51-1796	IZ	93.9	70.7	41.5	45.4	49.3	1185.3	12.2	11.22	W24X176	D1
		5050.4	1796.0	202.6	221.6	240.7	161865.9	3.72	3.42	W610X262	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
51-2011	IZ	94.0	79.2	37.7	42.9	48.1	1161.7	13.32	12.27	W24X146	C3
		5052.2	2011.4	184.1	209.4	234.8	158639.6	4.06	3.74	W610X217	
51-1805	IZ	94.2	71.1	34.9	39.1	43.3	1427.9	12.2	11.22	W30X132	C2
		5064.6	1805.0	170.6	191.1	211.6	194988.0	3.72	3.42	W760X196	
51-1727	IZ	94.2	68.0	53.3	57.4	61.4	755.0	12.2	11.22	W14X233	D2
		5066.7	1726.6	260.3	280.1	299.9	103106.3	3.72	3.42	W360X347	
51-2144	IZ	94.3	84.4	43.7	48.6	53.5	863.3	13.32	12.27	HP18x204	C3
		5068.3	2143.8	213.5	237.3	261.0	117892.7	4.06	3.74	HP460x304	
51-1773	IZ	94.3	69.8	35.1	39.0	42.9	1676.2	12.2	11.22	W36X135	D1
		5069.8	1773.0	171.2	190.4	209.7	228901.8	3.72	3.42	W920X201	
51-1761	IZ	94.3	69.3	37.3	42.9	48.5	1550.0	13.32	12.27	W33X118	D3
		5070.0	1761.0	181.9	209.2	236.6	211671.0	4.06	3.74	W840X176	
51-2095	IZ	94.5	82.5	56.1	59.7	63.3	809.0	12.2	11.22	W14X311	C1
		5079.4	2095.4	274.0	291.6	309.2	110476.2	3.72	3.42	W360X463	
51-2023	IZ	94.6	79.7	61.8	65.6	69.3	795.1	12.2	11.22	W12X336	C1
		5085.9	2023.4	301.9	320.2	338.5	108583.4	3.72	3.42	W310X500	
51-1943	IZ	94.6	76.5	52.1	56.0	59.9	774.8	12.2	11.22	W14X257	C2
		5086.6	1943.0	254.2	273.3	292.3	105801.8	3.72	3.42	W360X382	
51-1756	IZ	94.7	69.1	44.2	49.8	55.5	934.2	13.32	12.27	W18X158	D3
		5092.7	1756.0	215.9	243.3	270.8	127572.2	4.06	3.74	W460X235	
51-1735	IZ	94.8	68.3	38.1	42.2	46.2	1453.7	12.2	11.22	W30X148	D1
		5096.6	1735.0	186.2	205.9	225.6	198513.2	3.72	3.42	W760X220	
51-1653	IZ	94.8	65.1	59.2	63.4	67.7	729.7	12.2	11.22	W12X252	D2
		5096.7	1652.6	289.1	309.7	330.4	99640.6	3.72	3.42	W310X375	
51-1892	IZ	94.9	74.5	35.6	39.6	43.6	1298.9	12.2	11.22	W27X146	C2
		5104.4	1892.0	174.0	193.5	213.0	177378.7	3.72	3.42	W690X217	
51-1972	IZ	95.2	77.7	42.9	48.1	53.4	953.4	13.32	12.27	W18X175	C3
		5115.9	1972.4	209.2	235.1	260.9	130199.4	4.06	3.74	W460X260	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
51-1871	IZ	95.4	73.7	57.5	61.6	65.6	756.8	12.2	11.22	W12X279	C2
		5128.8	1871.0	280.8	300.6	320.3	103346.1	3.72	3.42	W310X415	
51-1723	IZ	95.6	67.8	39.9	45.7	51.4	1320.8	13.32	12.27	W27X129	D3
		5138.7	1723.0	195.0	222.9	250.9	180368.6	4.06	3.74	W690X192	
52-1736	IZ	95.7	68.3	38.8	44.5	50.2	1443.3	13.32	12.27	W30X124	D3
		5146.1	1736.0	189.5	217.2	244.9	197097.2	4.06	3.74	W760X185	
52-1762	IZ	95.8	69.4	36.4	40.3	44.3	1595.7	12.2	11.22	W33X141	D1
		5151.4	1762.0	177.6	197.0	216.3	217903.8	3.72	3.42	W840X210	
52-1866	IZ	95.9	73.5	38.7	42.8	46.8	1199.3	12.2	11.22	W24X162	C2
		5158.4	1866.0	189.0	208.8	228.6	163780.4	3.72	3.42	W610X241	
52-1788	IZ	96.0	70.4	46.1	50.0	53.9	1105.4	12.2	11.22	W21X201	D1
		5160.6	1788.0	225.0	244.1	263.3	150948.8	3.72	3.42	W530X300	
52-1638	IZ	96.0	64.5	43.7	48.0	52.3	1079.1	12.2	11.22	W21X166	D2
		5161.3	1637.6	213.6	234.4	255.3	147356.0	3.72	3.42	W530X248	
52-2012	IZ	96.4	79.2	40.3	44.1	47.8	1227.9	12.2	11.22	W24X192	C1
		5183.1	2012.4	196.7	215.1	233.4	167674.3	3.72	3.42	W610X285	
52-1951	IZ	96.7	76.8	36.7	42.1	47.4	1465.1	13.32	12.27	W30X132	C3
		5196.7	1951.4	179.3	205.4	231.5	200073.5	4.06	3.74	W760X196	
52-1855	IZ	97.2	73.0	42.2	46.3	50.4	1104.1	12.2	11.22	W21X182	C2
		5226.1	1855.0	206.2	226.1	246.1	150773.3	3.72	3.42	W530X272	
52-1998	IZ	97.3	78.7	41.0	46.2	51.5	1093.4	13.32	12.27	W21X166	C3
		5229.7	1998.4	200.2	225.7	251.2	149307.8	4.06	3.74	W530X248	
52-1591	IZ	97.5	62.6	38.6	43.0	47.4	1477.4	12.2	11.22	W30X132	D2
		5240.3	1590.6	188.3	209.8	231.3	201752.0	3.72	3.42	W760X196	
53-2041	IZ	97.7	80.4	37.8	41.5	45.2	1357.4	12.2	11.22	W27X178	C1
		5251.3	2041.4	184.7	202.8	220.9	185370.1	3.72	3.42	W690X265	
53-1829	IZ	97.7	72.0	34.1	38.3	42.4	1615.9	12.2	11.22	W33X130	C2
		5254.0	1829.0	166.6	186.9	207.1	220670.0	3.72	3.42	W840X193	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
53-1797	IZ	98.1	70.7	41.2	46.7	52.2	1212.6	13.32	12.27	W24X146	D3
		5273.6	1797.0	201.4	228.2	255.0	165591.2	4.06	3.74	W610X217	
53-2038	IZ	98.2	80.3	37.3	42.4	47.5	1343.8	13.32	12.27	W27X146	C3
		5280.9	2038.4	182.0	207.0	232.0	183511.8	4.06	3.74	W690X217	
53-1678	IZ	98.9	66.0	39.2	43.3	47.5	1353.0	12.2	11.22	W27X146	D2
		5316.9	1677.6	191.2	211.5	231.9	184763.4	3.72	3.42	W690X217	
53-1975	IZ	99.1	77.8	36.0	41.2	46.5	1638.8	13.32	12.27	W33X130	C3
		5328.3	1975.4	175.5	201.3	227.1	223790.4	4.06	3.74	W840X193	
54-1881	IZ	99.5	74.1	61.6	65.3	69.0	851.8	12.2	11.22	W14X311	D1
		5348.2	1881.0	300.7	318.9	337.0	116322.7	3.72	3.42	W360X463	
54-1809	IZ	99.5	71.2	68.2	72.1	76.0	836.2	12.2	11.22	W12X336	D1
		5348.4	1809.0	333.1	352.0	370.9	114187.7	3.72	3.42	W310X500	
54-1929	IZ	99.5	76.0	47.7	52.8	57.9	911.5	13.32	12.27	HP18x204	D3
		5351.5	1929.4	232.9	257.8	282.8	124480.1	4.06	3.74	HP460x304	
54-1977	IZ	99.9	77.9	35.0	38.8	42.6	1673.0	12.2	11.22	W33X152	C1
		5369.4	1977.4	170.8	189.5	208.2	228467.8	3.72	3.42	W840X226	
54-1737	IZ	100.0	68.4	40.3	45.9	51.6	1515.1	13.32	12.27	W30X132	D3
		5373.9	1737.0	196.6	224.3	252.0	206895.2	4.06	3.74	W760X196	
54-2012	IZ	100.2	79.2	40.2	45.3	50.5	1252.1	13.32	12.27	W24X162	C3
		5385.3	2012.4	196.1	221.4	246.7	170982.0	4.06	3.74	W610X241	
54-1758	IZ	100.3	69.2	47.1	52.7	58.3	1005.0	13.32	12.27	W18X175	D3
		5392.7	1758.0	230.0	257.4	284.7	137244.4	4.06	3.74	W460X260	
54-1798	IZ	100.4	70.8	44.1	48.0	51.9	1278.6	12.2	11.22	W24X192	D1
		5397.5	1798.0	215.5	234.5	253.5	174607.6	3.72	3.42	W610X285	
54-1729	IZ	100.5	68.1	57.5	61.6	65.6	822.9	12.2	11.22	W14X257	D2
		5402.6	1728.6	280.9	300.7	320.4	112374.4	3.72	3.42	W360X382	
54-1652	IZ	100.5	65.0	42.7	46.9	51.2	1256.5	12.2	11.22	W24X162	D2
		5404.3	1651.6	208.4	229.1	249.8	171586.1	3.72	3.42	W610X241	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
54-2055	IZ	100.7	80.9	32.8	36.1	39.4	2141.0	8.33	26.61	IZ A3	A3
		5414.3	2055.0	160.1	176.3	192.4	292370.2	2.54	8.11	IZ A3	
54-1615	IZ	100.8	63.6	37.6	41.9	46.3	1666.8	12.2	11.22	W33X130	D2
		5419.4	1614.6	183.6	204.7	225.9	227616.5	3.72	3.42	W840X193	
55-1827	IZ	101.4	71.9	41.3	45.2	49.0	1409.0	12.2	11.22	W27X178	D1
		5450.8	1827.0	201.8	220.5	239.2	192412.0	3.72	3.42	W690X265	
55-1657	IZ	101.4	65.2	63.9	68.1	72.4	804.3	12.2	11.22	W12X279	D2
		5451.0	1656.6	312.1	332.7	353.3	109836.7	3.72	3.42	W310X415	
55-1946	IZ	101.4	76.6	56.0	59.9	63.8	848.3	12.2	11.22	W14X283	C2
		5451.5	1946.0	273.6	292.6	311.6	115844.8	3.72	3.42	W360X421	
55-1873	IZ	101.7	73.7	61.7	65.8	69.8	830.7	12.2	11.22	W12X305	C2
		5467.1	1873.0	301.5	321.2	340.9	113442.7	3.72	3.42	W310X454	
55-1893	IZ	101.9	74.5	38.1	42.1	46.1	1406.3	12.2	11.22	W27X161	C2
		5479.2	1893.0	185.9	205.4	224.9	192045.9	3.72	3.42	W690X240	
55-2099	IZ	101.9	82.7	60.5	64.1	67.7	895.0	12.2	11.22	W14X342	C1
		5480.8	2099.4	295.5	313.1	330.7	122222.0	3.72	3.42	W360X509	
55-1761	IZ	102.1	69.3	39.4	45.0	50.6	1688.2	13.32	12.27	W33X130	D3
		5489.0	1761.0	192.1	219.5	246.8	230539.3	4.06	3.74	W840X193	
55-1784	IZ	102.2	70.2	45.0	50.5	56.0	1148.4	13.32	12.27	W21X166	D3
		5493.1	1784.0	219.6	246.6	273.5	156827.6	4.06	3.74	W530X248	
55-1824	IZ	102.2	71.8	40.7	46.1	51.5	1398.8	13.32	12.27	W27X146	D3
		5497.1	1824.0	198.8	225.2	251.6	191024.8	4.06	3.74	W690X217	
55-1864	IZ	102.3	73.4	40.9	45.0	49.0	1290.4	12.2	11.22	W24X176	C2
		5498.3	1864.0	199.7	219.6	239.4	176221.6	3.72	3.42	W610X262	
55-1641	IZ	102.4	64.6	46.7	51.0	55.2	1162.8	12.2	11.22	W21X182	D2
		5504.1	1640.6	228.0	248.9	269.7	158793.3	3.72	3.42	W530X272	
55-2001	IZ	102.5	78.8	43.4	48.7	53.9	1164.1	13.32	12.27	W21X182	C3
		5510.1	2001.4	212.1	237.5	263.0	158966.0	4.06	3.74	W530X272	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
55-2013	IZ	102.5	79.3	42.6	46.3	50.1	1317.7	12.2	11.22	W24X207	C1
		5511.4	2013.4	207.9	226.3	244.6	179947.6	3.72	3.42	W610X307	
55-1987	IZ	102.7	78.2	34.5	38.3	42.1	1840.9	12.2	11.22	W36X150	C1
		5519.1	1987.4	168.4	187.0	205.6	251396.6	3.72	3.42	W920X223	
55-2064	IZ	102.7	81.3	36.6	40.3	44.0	1562.7	12.2	11.22	W30X173	C1
		5521.5	2064.4	178.8	196.7	214.6	213405.1	3.72	3.42	W760X257	
55-1763	IZ	102.7	69.4	38.3	42.2	46.2	1720.6	12.2	11.22	W33X152	D1
		5521.9	1763.0	186.8	206.2	225.6	234957.1	3.72	3.42	W840X226	
56-1841	IZ	103.4	72.5	34.7	38.8	42.9	1837.4	12.2	11.22	W36X135	C2
		5557.2	1841.0	169.4	189.5	209.6	250906.7	3.72	3.42	W920X201	
56-1803	IZ	103.7	71.0	37.7	41.9	46.1	1590.1	12.2	11.22	W30X148	C2
		5575.1	1803.0	183.8	204.4	224.9	217148.9	3.72	3.42	W760X220	
56-1987	IZ	103.7	78.2	36.5	41.7	47.0	1843.8	13.32	12.27	W36X135	C3
		5576.5	1987.4	178.0	203.7	229.3	251780.8	4.06	3.74	W920X201	
56-1856	IZ	104.4	73.1	45.3	49.4	53.5	1202.3	12.2	11.22	W21X201	C2
		5613.3	1856.0	221.3	241.2	261.2	164188.6	3.72	3.42	W530X300	
56-2039	IZ	104.6	80.3	39.6	44.7	49.8	1443.5	13.32	12.27	W27X161	C3
		5624.1	2039.4	193.1	218.1	243.1	197123.2	4.06	3.74	W690X240	
56-1830	IZ	104.7	72.0	36.0	40.1	44.2	1743.6	12.2	11.22	W33X141	C2
		5629.1	1830.0	175.6	195.8	216.0	238109.5	3.72	3.42	W840X210	
56-1798	IZ	104.9	70.8	44.0	49.5	55.0	1310.9	13.32	12.27	W24X162	D3
		5638.1	1798.0	214.8	241.6	268.4	179011.0	4.06	3.74	W610X241	
57-1983	IZ	105.2	78.1	34.4	38.2	42.0	2008.7	12.2	11.22	W40X149	C1
		5655.8	1983.4	167.9	186.6	205.2	274305.8	3.72	3.42	W1000X222	
57-1773	IZ	105.3	69.8	37.7	41.6	45.6	1888.9	12.2	11.22	W36X150	D1
		5662.9	1773.0	184.0	203.3	222.5	257943.7	3.72	3.42	W920X223	
57-1949	IZ	105.3	76.7	39.2	44.6	49.9	1615.2	13.32	12.27	W30X148	C3
		5663.0	1949.4	191.6	217.7	243.8	220575.2	4.06	3.74	W760X220	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
57-1976	IZ	105.5	77.8	37.6	42.9	48.2	1757.0	13.32	12.27	W33X141	C3
		5672.3	1976.4	183.8	209.6	235.3	239936.5	4.06	3.74	W840X210	
57-2010	IZ	105.9	79.1	42.2	47.4	52.6	1336.6	13.32	12.27	W24X176	C3
		5695.0	2010.4	206.1	231.4	256.7	182524.4	4.06	3.74	W610X262	
57-2039	IZ	105.9	80.3	40.2	43.9	47.7	1489.0	12.2	11.22	W27X194	C1
		5695.8	2039.4	196.4	214.5	232.7	203340.3	3.72	3.42	W690X289	
57-1850	IZ	106.4	72.8	39.9	43.7	47.5	1619.4	12.2	11.22	W30X173	D1
		5721.7	1850.0	195.0	213.5	231.9	221143.3	3.72	3.42	W760X257	
57-1627	IZ	106.6	64.0	38.2	42.5	46.8	1894.3	12.2	11.22	W36X135	D2
		5729.3	1626.6	186.6	207.6	228.6	258676.7	3.72	3.42	W920X201	
57-1679	IZ	106.6	66.1	41.9	46.1	50.2	1471.3	12.2	11.22	W27X161	D2
		5732.3	1678.6	204.6	225.0	245.3	200918.1	3.72	3.42	W690X240	
57-1773	IZ	106.7	69.8	39.9	45.5	51.0	1896.7	13.32	12.27	W36X135	D3
		5736.8	1773.0	194.8	222.0	249.1	259015.0	4.06	3.74	W920X201	
58-1799	IZ	107.1	70.8	46.7	50.6	54.5	1376.7	12.2	11.22	W24X207	D1
		5757.9	1799.0	228.0	247.0	266.0	187995.0	3.72	3.42	W610X307	
58-1650	IZ	107.5	64.9	45.2	49.4	53.7	1356.8	12.2	11.22	W24X176	D2
		5780.9	1649.6	220.6	241.3	262.0	185276.3	3.72	3.42	W610X262	
58-1885	IZ	107.6	74.2	66.5	70.2	73.9	944.4	12.2	11.22	W14X342	D1
		5783.0	1885.0	324.6	342.8	360.9	128959.9	3.72	3.42	W360X509	
58-1769	IZ	107.7	69.6	37.6	41.5	45.5	2056.6	12.2	11.22	W40X149	D1
		5790.7	1769.0	183.5	202.8	222.1	280849.8	3.72	3.42	W1000X222	
58-1787	IZ	107.9	70.4	47.7	53.2	58.7	1225.2	13.32	12.27	W21X182	D3
		5799.4	1787.0	232.8	259.8	286.7	167312.0	4.06	3.74	W530X272	
58-1732	IZ	107.9	68.2	62.0	66.0	70.1	902.7	12.2	11.22	W14X283	D2
		5801.3	1731.6	302.6	322.4	342.1	123276.6	3.72	3.42	W360X421	
58-1589	IZ	108.0	62.5	41.7	46.1	50.5	1656.4	12.2	11.22	W30X148	D2
		5807.4	1588.6	203.4	224.9	246.4	226199.8	3.72	3.42	W760X220	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
58-1949	IZ	108.1	76.7	60.3	64.2	68.1	925.8	12.2	11.22	W14X311	C2
		5812.9	1949.0	294.5	313.5	332.5	126429.8	3.72	3.42	W360X463	
58-1659	IZ	108.2	65.3	68.7	72.9	77.1	884.0	12.2	11.22	W12X305	D2
		5817.9	1658.6	335.4	356.0	376.6	120720.9	3.72	3.42	W310X454	
58-1988	IZ	108.5	78.3	36.0	39.8	43.6	1953.5	12.2	11.22	W36X160	C1
		5831.0	1988.4	175.8	194.4	213.0	266769.4	3.72	3.42	W920X238	
58-1616	IZ	108.6	63.6	39.7	44.0	48.3	1807.9	12.2	11.22	W33X141	D2
		5836.5	1615.6	193.7	214.8	236.0	246884.9	3.72	3.42	W840X210	
58-1866	IZ	108.6	73.5	43.4	47.5	51.6	1382.7	12.2	11.22	W24X192	C2
		5836.9	1866.0	212.1	231.9	251.8	188825.2	3.72	3.42	W610X285	
59-1877	IZ	108.9	73.9	66.7	70.7	74.7	915.4	12.2	11.22	W12X336	C2
		5854.9	1877.0	325.5	345.2	364.9	125001.5	3.72	3.42	W310X500	
59-2002	IZ	109.0	78.8	46.3	51.5	56.7	1255.1	13.32	12.27	W21X201	C3
		5859.7	2002.4	226.1	251.5	277.0	171396.3	4.06	3.74	W530X300	
59-2101	IZ	109.1	82.7	64.5	68.1	71.7	977.5	12.2	11.22	W14X370	C1
		5867.6	2101.4	315.0	332.6	350.2	133489.0	3.72	3.42	W360X551	
59-1762	IZ	109.1	69.4	41.2	46.8	52.4	1817.6	13.32	12.27	W33X141	D3
		5867.7	1762.0	201.4	228.7	256.0	248205.0	4.06	3.74	W840X210	
59-1825	IZ	109.3	71.8	43.3	48.7	54.1	1507.6	13.32	12.27	W27X161	D3
		5873.9	1825.0	211.2	237.6	264.0	205880.1	4.06	3.74	W690X240	
59-1895	IZ	109.4	74.6	40.7	44.7	48.7	1520.0	12.2	11.22	W27X178	C2
		5880.0	1895.0	198.9	218.5	238.0	207564.3	3.72	3.42	W690X265	
59-1735	IZ	109.5	68.3	43.1	48.8	54.5	1679.0	13.32	12.27	W30X148	D3
		5886.7	1735.0	210.4	238.1	265.9	229285.9	4.06	3.74	W760X220	
59-1975	IZ	109.7	77.8	37.5	41.3	45.1	1854.6	12.2	11.22	W33X169	C1
		5896.8	1975.4	182.9	201.6	220.3	253268.6	3.72	3.42	W840X251	
59-1642	IZ	110.3	64.6	50.2	54.5	58.7	1270.5	12.2	11.22	W21X201	D2
		5931.6	1641.6	245.1	265.9	286.7	173499.6	3.72	3.42	W530X300	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
59-1825	IZ	110.5	71.8	44.0	47.8	51.7	1552.5	12.2	11.22	W27X194	D1
		5938.6	1825.0	214.9	233.6	252.3	212007.2	3.72	3.42	W690X289	
60-2016	IZ	110.9	79.4	45.9	49.6	53.4	1443.5	12.2	11.22	W24X229	C1
		5964.6	2016.4	224.0	242.3	260.6	197128.8	3.72	3.42	W610X341	
60-1796	IZ	111.2	70.7	46.3	51.8	57.3	1403.0	13.32	12.27	W24X176	D3
		5978.0	1796.0	226.0	252.8	279.6	191593.5	4.06	3.74	W610X262	
60-2065	IZ	111.3	81.3	39.3	42.9	46.6	1707.5	12.2	11.22	W30X191	C1
		5986.5	2065.4	191.7	209.6	227.5	233174.9	3.72	3.42	W760X284	
60-1831	IZ	111.4	72.1	37.8	41.9	46.1	1866.5	12.2	11.22	W33X152	C2
		5990.2	1831.0	184.5	204.7	224.8	254883.8	3.72	3.42	W840X226	
60-2041	IZ	111.5	80.4	42.0	47.1	52.3	1549.0	13.32	12.27	W27X178	C3
		5992.2	2041.4	205.2	230.2	255.1	211523.7	4.06	3.74	W690X265	
60-2012	IZ	111.7	79.2	44.6	49.7	54.9	1422.1	13.32	12.27	W24X192	C3
		6003.2	2012.4	217.5	242.9	268.2	194204.8	4.06	3.74	W610X285	
60-1977	IZ	111.7	77.9	39.3	44.6	49.9	1870.8	13.32	12.27	W33X152	C3
		6003.9	1977.4	192.0	217.8	243.6	255467.9	4.06	3.74	W840X226	
60-1774	IZ	111.7	69.8	39.4	43.3	47.3	2012.6	12.2	11.22	W36X160	D1
		6007.5	1774.0	192.3	211.6	230.8	274841.6	3.72	3.42	W920X238	
61-2055	IZ	112.8	80.9	32.7	36.0	39.3	2842.5	8.35	27.99	IZ B4	B4
		6065.0	2055.0	159.7	175.8	192.0	388162.2	2.54	8.53	IZ B4	
61-1761	IZ	113.5	69.3	41.0	45.0	49.0	1919.7	12.2	11.22	W33X169	D1
		6103.6	1761.0	200.4	219.8	239.2	262149.0	3.72	3.42	W840X251	
61-1987	IZ	113.6	78.2	38.8	44.1	49.3	2037.7	13.32	12.27	W36X150	C3
		6108.9	1987.4	189.5	215.1	240.7	278260.9	4.06	3.74	W920X223	
61-1841	IZ	114.1	72.5	37.2	41.3	45.5	2046.7	12.2	11.22	W36X150	C2
		6135.9	1841.0	181.8	201.8	221.9	279492.5	3.72	3.42	W920X223	
61-1918	IZ	114.3	75.5	39.4	43.4	47.3	1739.0	12.2	11.22	W30X173	C2
		6144.2	1918.0	192.5	211.7	231.0	237473.1	3.72	3.42	W760X257	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
62-1989	IZ	114.4	78.3	37.5	41.3	45.1	2069.7	12.2	11.22	W36X170	C1
		6150.8	1989.4	183.2	201.8	220.4	282631.1	3.72	3.42	W920X253	
62-1652	IZ	114.5	65.0	48.0	52.3	56.5	1458.1	12.2	11.22	W24X192	D2
		6155.1	1651.6	234.6	255.3	276.0	199119.0	3.72	3.42	W610X285	
62-1681	IZ	114.9	66.2	44.9	49.1	53.2	1596.8	12.2	11.22	W27X178	D2
		6177.1	1680.6	219.3	239.7	260.0	218051.5	3.72	3.42	W690X265	
62-1788	IZ	115.0	70.4	50.9	56.4	61.9	1324.0	13.32	12.27	W21X201	D3
		6181.5	1788.0	248.5	275.4	302.4	180809.3	4.06	3.74	W530X300	
62-1867	IZ	115.1	73.5	45.9	50.0	54.0	1479.6	12.2	11.22	W24X207	C2
		6188.3	1867.0	224.2	244.0	263.8	202049.5	3.72	3.42	W610X307	
62-2064	IZ	115.1	81.3	40.8	45.8	50.9	1752.1	13.32	12.27	W30X173	C3
		6190.6	2064.4	199.1	223.8	248.5	239267.3	4.06	3.74	W760X257	
62-1735	IZ	115.2	68.3	66.8	70.8	74.9	986.7	12.2	11.22	W14X311	D2
		6195.0	1734.6	326.1	345.8	365.5	134741.9	3.72	3.42	W360X463	
62-1887	IZ	115.4	74.3	70.9	74.6	78.4	1033.4	12.2	11.22	W14X370	D1
		6203.2	1887.0	346.4	364.5	382.6	141122.6	3.72	3.42	W360X551	
62-1983	IZ	115.5	78.1	38.7	44.0	49.2	2205.8	13.32	12.27	W40X149	C3
		6210.8	1983.4	189.1	214.8	240.4	301224.3	4.06	3.74	W1000X222	
62-2104	IZ	115.8	82.9	68.5	72.1	75.7	1059.8	12.2	11.22	W14X398	C1
		6224.7	2104.4	334.3	351.9	369.5	144724.4	3.72	3.42	W360X592	
62-1851	IZ	115.9	72.9	42.9	46.7	50.4	1777.9	12.2	11.22	W30X191	D1
		6233.5	1851.0	209.3	227.8	246.2	242793.9	3.72	3.42	W760X284	
62-1763	IZ	115.9	69.4	43.1	48.7	54.3	1942.3	13.32	12.27	W33X152	D3
		6233.6	1763.0	210.6	237.9	265.2	265241.1	4.06	3.74	W840X226	
62-1953	IZ	116.0	76.9	65.1	68.9	72.8	1018.0	12.2	11.22	W14X342	C2
		6234.2	1953.0	317.6	336.6	355.5	139023.5	3.72	3.42	W360X509	
62-2042	IZ	116.0	80.4	43.6	47.3	51.0	1649.2	12.2	11.22	W27X217	C1
		6238.7	2042.4	213.0	231.1	249.2	225217.5	3.72	3.42	W690X323	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
62-1617	IZ	116.0	63.6	41.7	46.1	50.4	1944.0	12.2	11.22	W33X152	D2
		6238.9	1616.6	203.7	224.9	246.0	265464.6	3.72	3.42	W840X226	
62-1663	IZ	116.1	65.5	74.2	78.4	82.6	975.5	12.2	11.22	W12X336	D2
		6239.7	1662.6	362.4	383.0	403.5	133216.6	3.72	3.42	W310X500	
63-1802	IZ	116.3	70.9	50.4	54.3	58.1	1513.9	12.2	11.22	W24X229	D1
		6255.1	1802.0	245.9	264.9	283.9	206730.4	3.72	3.42	W610X341	
63-1837	IZ	116.7	72.3	37.1	41.3	45.4	2228.3	12.2	11.22	W40X149	C2
		6274.0	1837.0	181.3	201.4	221.5	304288.6	3.72	3.42	W1000X222	
63-1827	IZ	116.8	71.9	46.0	51.4	56.8	1623.0	13.32	12.27	W27X178	D3
		6278.6	1827.0	224.7	251.1	277.4	221635.2	4.06	3.74	W690X265	
63-1798	IZ	117.5	70.8	48.9	54.4	59.9	1496.1	13.32	12.27	W24X192	D3
		6315.4	1798.0	238.8	265.6	292.4	204302.0	4.06	3.74	W610X285	
63-2013	IZ	117.6	79.3	46.9	52.0	57.2	1511.9	13.32	12.27	W24X207	C3
		6323.6	2013.4	228.7	254.1	279.4	206464.9	4.06	3.74	W610X307	
63-1773	IZ	117.6	69.8	42.5	48.1	53.7	2109.4	13.32	12.27	W36X150	D3
		6324.0	1773.0	207.7	234.8	262.0	288056.9	4.06	3.74	W920X223	
64-1893	IZ	118.2	74.5	43.3	47.3	51.3	1661.9	12.2	11.22	W27X194	C2
		6357.1	1893.0	211.6	231.1	250.7	226947.8	3.72	3.42	W690X289	
64-1775	IZ	118.3	69.9	41.1	45.0	49.0	2140.4	12.2	11.22	W36X170	D1
		6360.9	1775.0	200.6	219.8	239.1	292284.1	3.72	3.42	W920X253	
64-1627	IZ	118.6	64.0	41.1	45.4	49.7	2126.1	12.2	11.22	W36X150	D2
		6373.9	1626.6	200.6	221.6	242.6	290332.5	3.72	3.42	W920X223	
64-1983	IZ	118.7	78.1	37.1	41.0	44.8	2290.0	12.2	11.22	W40X167	C1
		6382.0	1983.4	181.4	200.0	218.6	312716.4	3.72	3.42	W1000X249	
64-1769	IZ	119.3	69.6	42.4	48.0	53.6	2277.6	13.32	12.27	W40X149	D3
		6413.0	1769.0	207.2	234.5	261.7	311031.1	4.06	3.74	W1000X222	
64-1988	IZ	119.4	78.3	40.3	45.6	50.8	2150.1	13.32	12.27	W36X160	C3
		6417.9	1988.4	196.9	222.5	248.1	293620.1	4.06	3.74	W920X238	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
64-2018	IZ	119.5	79.5	49.0	52.8	56.5	1573.4	12.2	11.22	W24X250	C1
		6423.5	2018.4	239.3	257.6	275.9	214867.6	3.72	3.42	W610X372	
64-2039	IZ	119.6	80.3	44.4	49.6	54.7	1680.7	13.32	12.27	W27X194	C3
		6429.1	2039.4	217.0	242.0	266.9	229519.6	4.06	3.74	W690X289	
64-1704	IZ	119.8	67.1	43.4	47.5	51.6	1822.7	12.2	11.22	W30X173	D2
		6440.0	1703.6	211.8	231.8	251.9	248905.7	3.72	3.42	W760X257	
65-1850	IZ	120.3	72.8	44.6	49.9	55.2	1830.7	13.32	12.27	W30X173	D3
		6468.4	1850.0	217.7	243.7	269.7	250003.1	4.06	3.74	W760X257	
65-1842	IZ	120.4	72.5	38.9	43.0	47.1	2168.1	12.2	11.22	W36X160	C2
		6471.5	1842.0	189.8	209.8	229.9	296071.8	3.72	3.42	W920X238	
65-2067	IZ	120.8	81.4	42.2	45.8	49.5	1869.6	12.2	11.22	W30X211	C1
		6496.5	2067.4	205.9	223.8	241.7	255310.9	3.72	3.42	W760X314	
65-1990	IZ	120.9	78.4	39.4	43.2	47.0	2196.8	12.2	11.22	W36X182	C1
		6500.2	1990.4	192.2	210.7	229.3	299985.9	3.72	3.42	W920X271	
65-1623	IZ	121.0	63.9	41.0	45.3	49.6	2309.5	12.2	11.22	W40X149	D2
		6502.8	1622.6	200.1	221.1	242.2	315385.2	3.72	3.42	W1000X222	
65-1975	IZ	121.4	77.8	41.8	47.1	52.4	2052.6	13.32	12.27	W33X169	C3
		6526.1	1975.4	204.1	229.9	255.7	280296.0	4.06	3.74	W840X251	
65-1828	IZ	121.6	72.0	47.8	51.6	55.5	1727.6	12.2	11.22	W27X217	D1
		6535.2	1828.0	233.4	252.1	270.8	235921.6	3.72	3.42	W690X323	
65-1653	IZ	121.7	65.1	50.8	55.1	59.3	1564.7	12.2	11.22	W24X207	D2
		6544.5	1652.6	248.2	268.9	289.6	213677.6	3.72	3.42	W610X307	
66-1829	IZ	122.0	72.0	40.5	44.6	48.7	2062.8	12.2	11.22	W33X169	C2
		6558.8	1829.0	197.5	217.8	238.0	281698.6	3.72	3.42	W840X251	
66-1890	IZ	122.6	74.4	75.3	79.0	82.7	1122.0	12.2	11.22	W14X398	D1
		6589.8	1890.0	367.8	385.9	404.0	153212.4	3.72	3.42	W360X592	
66-1769	IZ	122.6	69.6	40.7	44.6	48.6	2365.6	12.2	11.22	W40X167	D1
		6592.7	1769.0	198.6	217.9	237.2	323044.0	3.72	3.42	W1000X249	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
66-2107	IZ	123.1	83.0	72.4	76.0	79.6	1148.5	12.2	11.22	W14X426	C1
		6617.6	2107.4	353.6	371.1	388.7	156836.2	3.72	3.42	W360X634	
66-2055	IZ	123.5	80.9	34.4	37.7	41.0	3110.8	8.33	27.92	IZ A4	A4
		6637.7	2055.0	167.7	183.9	200.1	424812.2	2.54	8.51	IZ A4	
66-2043	IZ	123.5	80.4	46.4	50.1	53.8	1770.2	12.2	11.22	W27X235	C1
		6641.1	2043.4	226.4	244.5	262.6	241735.6	3.72	3.42	W690X350	
66-1955	IZ	123.6	77.0	69.4	73.2	77.1	1106.6	12.2	11.22	W14X370	C2
		6642.5	1955.0	338.6	357.5	376.4	151117.0	3.72	3.42	W360X551	
66-1919	IZ	123.6	75.6	42.2	46.2	50.1	1894.7	12.2	11.22	W30X191	C2
		6642.8	1919.0	206.3	225.5	244.8	258738.6	3.72	3.42	W760X284	
67-2065	IZ	123.7	81.3	43.4	48.5	53.5	1896.8	13.32	12.27	W30X191	C3
		6650.2	2065.4	212.0	236.6	261.3	259024.6	4.06	3.74	W760X284	
67-1739	IZ	123.8	68.4	72.1	76.1	80.1	1086.7	12.2	11.22	W14X342	D2
		6654.8	1738.6	352.0	371.6	391.3	148401.0	3.72	3.42	W360X509	
67-2083	IZ	124.0	82.0	40.4	44.0	47.6	2086.2	12.2	11.22	W33X201	C1
		6664.1	2083.4	197.2	214.9	232.6	284889.0	3.72	3.42	W840X299	
67-1774	IZ	124.0	69.8	44.2	49.8	55.3	2233.0	13.32	12.27	W36X160	D3
		6665.3	1774.0	215.9	243.1	270.2	304937.8	4.06	3.74	W920X238	
67-1799	IZ	124.0	70.8	51.5	57.0	62.4	1594.0	13.32	12.27	W24X207	D3
		6666.9	1799.0	251.3	278.1	304.9	217672.9	4.06	3.74	W610X307	
67-1870	IZ	124.1	73.6	49.5	53.5	57.6	1615.0	12.2	11.22	W24X229	C2
		6672.9	1870.0	241.5	261.3	281.0	220540.4	3.72	3.42	W610X341	
67-1679	IZ	124.7	66.1	47.8	52.0	56.2	1753.0	12.2	11.22	W27X194	D2
		6705.5	1678.6	233.6	254.0	274.3	239386.2	3.72	3.42	W690X289	
67-1989	IZ	125.3	78.3	41.8	47.1	52.3	2266.2	13.32	12.27	W36X170	C3
		6734.9	1989.4	204.3	229.9	255.5	309468.3	4.06	3.74	W920X253	
68-1776	IZ	125.5	69.9	43.1	47.1	51.0	2280.3	12.2	11.22	W36X182	D1
		6747.3	1776.0	210.6	229.9	249.1	311389.9	3.72	3.42	W920X271	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
68-1628	IZ	125.5	64.1	42.9	47.2	51.5	2260.8	12.2	11.22	W36X160	D2
		6748.2	1627.6	209.6	230.6	251.6	308730.5	3.72	3.42	W920X238	
68-1825	IZ	125.7	71.8	48.7	54.1	59.5	1766.7	13.32	12.27	W27X194	D3
		6758.0	1825.0	237.9	264.2	290.6	241262.3	4.06	3.74	W690X289	
68-1804	IZ	125.7	71.0	53.9	57.8	61.6	1655.5	12.2	11.22	W24X250	D1
		6758.7	1804.0	263.1	282.0	300.9	226079.4	3.72	3.42	W610X372	
68-2016	IZ	125.8	79.4	50.1	55.3	60.5	1637.4	13.32	12.27	W24X229	C3
		6765.7	2016.4	244.8	270.0	295.3	223606.7	4.06	3.74	W610X341	
68-1853	IZ	126.4	73.0	46.1	49.9	53.7	1955.3	12.2	11.22	W30X211	D1
		6794.3	1853.0	225.2	243.6	262.1	267015.0	3.72	3.42	W760X314	
68-1761	IZ	126.7	69.3	45.9	51.5	57.1	2141.7	13.32	12.27	W33X169	D3
		6809.5	1761.0	224.2	251.6	278.9	292467.3	4.06	3.74	W840X251	
68-1843	IZ	126.8	72.6	40.5	44.6	48.7	2293.4	12.2	11.22	W36X170	C2
		6815.6	1843.0	197.7	217.8	237.9	313177.6	3.72	3.42	W920X253	
68-1991	IZ	127.1	78.4	41.1	44.9	48.7	2320.0	12.2	11.22	W36X194	C1
		6835.4	1991.4	200.8	219.3	237.9	316822.9	3.72	3.42	W920X289	
69-1615	IZ	127.8	63.6	44.8	49.1	53.4	2161.4	12.2	11.22	W33X169	D2
		6872.2	1614.6	218.6	239.7	260.9	295159.8	3.72	3.42	W840X251	
69-1983	IZ	128.9	78.1	41.5	46.7	52.0	2487.1	13.32	12.27	W40X167	C3
		6931.3	1983.4	202.5	228.2	253.9	339634.8	4.06	3.74	W1000X249	
69-1896	IZ	129.1	74.6	47.0	51.0	55.0	1834.2	12.2	11.22	W27X217	C2
		6938.4	1896.0	229.5	249.0	268.5	250476.9	3.72	3.42	W690X323	
70-1869	IZ	129.3	73.6	44.1	47.8	51.6	2176.1	12.2	11.22	W33X201	D1
		6951.3	1869.0	215.3	233.6	251.8	297166.9	3.72	3.42	W840X299	
70-2042	IZ	129.5	80.4	47.8	52.9	58.1	1840.7	13.32	12.27	W27X217	C3
		6962.8	2042.4	233.6	258.5	283.5	251358.3	4.06	3.74	W690X323	
70-2111	IZ	129.7	83.1	76.5	80.1	83.6	1232.9	12.2	11.22	W14X455	C1
		6971.8	2111.4	373.4	390.9	408.4	168368.5	3.72	3.42	W360X677	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
70-1851	IZ	129.7	72.9	47.5	52.8	58.2	1989.2	13.32	12.27	W30X191	D3
		6974.0	1851.0	232.0	258.0	284.0	271638.1	4.06	3.74	W760X284	
70-1829	IZ	129.8	72.0	50.9	54.7	58.5	1860.0	12.2	11.22	W27X235	D1
		6977.9	1829.0	248.3	267.0	285.7	253993.8	3.72	3.42	W690X350	
70-2101	IZ	129.9	82.7	68.6	73.6	78.5	1163.6	13.32	12.27	W14X370	C3
		6984.4	2101.4	335.0	359.2	383.5	158895.9	4.06	3.74	W360X551	
70-1705	IZ	130.1	67.1	46.6	50.7	54.8	1994.7	12.2	11.22	W30X191	D2
		6993.6	1704.6	227.3	247.3	267.4	272399.5	3.72	3.42	W760X284	
70-2021	IZ	130.4	79.6	53.3	57.1	60.8	1743.2	12.2	11.22	W24X279	C1
		7012.0	2021.4	260.3	278.6	296.9	238056.0	3.72	3.42	W610X415	
70-1775	IZ	130.5	69.9	45.9	51.5	57.0	2360.6	13.32	12.27	W36X170	D3
		7015.5	1775.0	224.2	251.3	278.5	322363.4	4.06	3.74	W920X253	
70-1893	IZ	130.5	74.5	79.7	83.4	87.1	1217.7	12.2	11.22	W14X426	D1
		7016.5	1893.0	389.2	407.3	425.3	166291.9	3.72	3.42	W360X634	
70-1958	IZ	130.5	77.1	73.6	77.5	81.3	1194.8	12.2	11.22	W14X398	C2
		7017.9	1958.0	359.3	378.2	397.1	163165.5	3.72	3.42	W360X592	
71-1837	IZ	131.2	72.3	40.1	44.2	48.4	2532.0	12.2	11.22	W40X167	C2
		7056.3	1837.0	195.8	216.0	236.1	345760.3	3.72	3.42	W1000X249	
71-1983	IZ	131.6	78.1	39.6	43.4	47.2	2563.9	12.2	11.22	W40X183	C1
		7073.3	1983.4	193.2	211.9	230.5	350129.8	3.72	3.42	W1000X272	
71-1656	IZ	131.7	65.2	54.8	59.1	63.3	1713.7	12.2	11.22	W24X229	D2
		7080.9	1655.6	267.7	288.3	309.0	234023.2	3.72	3.42	W610X341	
71-1990	IZ	131.7	78.4	43.7	48.9	54.2	2393.2	13.32	12.27	W36X182	C3
		7081.5	1990.4	213.2	238.8	264.4	326809.7	4.06	3.74	W920X271	
71-1741	IZ	132.1	68.5	76.9	80.9	84.9	1183.1	12.2	11.22	W14X370	D2
		7101.7	1740.6	375.5	395.1	414.7	161564.3	3.72	3.42	W360X551	
71-1777	IZ	132.4	70.0	45.1	49.0	53.0	2415.9	12.2	11.22	W36X194	D1
		7118.0	1777.0	220.2	239.5	258.7	329918.4	3.72	3.42	W920X289	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
71-1629	IZ	132.7	64.1	44.8	49.1	53.4	2399.8	12.2	11.22	W36X170	D2
		7132.1	1628.6	218.6	239.6	260.6	327720.2	3.72	3.42	W920X253	
72-1802	IZ	133.0	70.9	55.1	60.6	66.1	1730.8	13.32	12.27	W24X229	D3
		7151.6	1802.0	269.2	295.9	322.7	236358.9	4.06	3.74	W610X341	
72-2067	IZ	133.1	81.4	46.3	51.4	56.4	2058.7	13.32	12.27	W30X211	C3
		7153.6	2067.4	226.2	250.8	275.5	281135.6	4.06	3.74	W760X314	
72-1872	IZ	133.3	73.7	52.8	56.9	60.9	1754.9	12.2	11.22	W24X250	C2
		7164.2	1872.0	258.0	277.8	297.5	239641.4	3.72	3.42	W610X372	
72-2065	IZ	133.3	81.3	45.7	49.4	53.0	2086.3	12.2	11.22	W30X235	C1
		7167.2	2065.4	223.2	241.1	259.0	284897.6	3.72	3.42	W760X350	
72-2045	IZ	133.5	80.5	49.6	53.3	57.0	1934.3	12.2	11.22	W27X258	C1
		7177.8	2045.4	242.3	260.3	278.4	264143.6	3.72	3.42	W690X384	
72-1921	IZ	133.7	75.6	45.4	49.3	53.3	2069.0	12.2	11.22	W30X211	C2
		7189.2	1921.0	221.6	240.8	260.1	282535.0	3.72	3.42	W760X314	
72-1844	IZ	133.8	72.6	42.5	46.6	50.7	2430.4	12.2	11.22	W36X182	C2
		7191.6	1844.0	207.4	227.5	247.5	331893.7	3.72	3.42	W920X271	
72-1769	IZ	134.1	69.6	45.5	51.1	56.7	2586.6	13.32	12.27	W40X167	D3
		7208.7	1769.0	222.3	249.5	276.8	353225.2	4.06	3.74	W1000X249	
72-2018	IZ	134.2	79.5	53.3	58.4	63.6	1767.1	13.32	12.27	W24X250	C3
		7214.3	2018.4	260.1	285.3	310.6	241319.2	4.06	3.74	W610X372	
72-2084	IZ	134.6	82.1	43.3	46.9	50.6	2283.2	12.2	11.22	W33X221	C1
		7234.0	2084.4	211.4	229.1	246.8	311785.5	3.72	3.42	W840X329	
73-2083	IZ	135.1	82.0	44.5	49.5	54.5	2273.9	13.32	12.27	W33X201	C3
		7263.5	2083.4	217.3	241.7	266.2	310515.4	4.06	3.74	W840X299	
73-1992	IZ	135.6	78.4	43.6	47.4	51.2	2488.1	12.2	11.22	W36X210	C1
		7291.3	1992.4	212.9	231.4	250.0	339772.4	3.72	3.42	W920X313	
73-2104	IZ	136.1	82.9	72.6	77.5	82.5	1245.6	13.32	12.27	W14X398	C3
		7315.9	2104.4	354.3	378.5	402.7	170095.0	4.06	3.74	W360X592	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
73-1828	IZ	136.6	72.0	52.5	57.9	63.3	1941.5	13.32	12.27	W27X217	D3
		7344.3	1828.0	256.4	282.7	309.0	265128.7	4.06	3.74	W690X323	
74-1937	IZ	136.7	76.3	43.4	47.3	51.3	2300.3	12.2	11.22	W33X201	C2
		7347.9	1937.0	212.1	231.1	250.2	314123.7	3.72	3.42	W840X299	
74-1682	IZ	136.7	66.2	52.0	56.1	60.3	1943.0	12.2	11.22	W27X217	D2
		7350.0	1681.6	253.7	274.1	294.4	265333.8	3.72	3.42	W690X323	
74-1769	IZ	136.8	69.6	43.4	47.4	51.3	2666.3	12.2	11.22	W40X183	D1
		7355.6	1769.0	211.9	231.2	250.5	364102.3	3.72	3.42	W1000X272	
74-2043	IZ	136.9	80.4	50.6	55.7	60.8	1961.5	13.32	12.27	W27X235	C3
		7358.9	2043.4	246.9	271.8	296.8	267863.6	4.06	3.74	W690X350	
74-1897	IZ	137.1	74.7	49.9	53.9	57.9	1964.4	12.2	11.22	W27X235	C2
		7369.7	1897.0	243.8	263.3	282.8	268256.5	3.72	3.42	W690X350	
74-1623	IZ	137.2	63.9	44.3	48.7	53.0	2646.4	12.2	11.22	W40X167	D2
		7375.2	1622.6	216.5	237.6	258.6	361386.4	3.72	3.42	W1000X249	
74-1776	IZ	137.6	69.9	48.0	53.5	59.1	2500.4	13.32	12.27	W36X182	D3
		7398.7	1776.0	234.3	261.4	288.5	341452.2	4.06	3.74	W920X271	
74-1897	IZ	137.6	74.7	84.2	87.9	91.6	1308.7	12.2	11.22	W14X455	D1
		7400.4	1897.0	411.2	429.2	447.2	178720.8	3.72	3.42	W360X677	
74-1807	IZ	137.7	71.1	58.7	62.6	66.4	1840.8	12.2	11.22	W24X279	D1
		7404.5	1807.0	286.5	305.4	324.3	251384.1	3.72	3.42	W610X415	
74-1991	IZ	137.9	78.4	45.4	50.7	55.9	2516.4	13.32	12.27	W36X194	C3
		7413.9	1991.4	221.8	247.4	273.0	343633.2	4.06	3.74	W920X289	
74-2083	IZ	137.9	82.0	40.0	43.6	47.3	2666.7	12.2	11.22	W40X199	C1
		7416.6	2083.4	195.3	213.0	230.8	364155.3	3.72	3.42	W1000X296	
74-1961	IZ	138.2	77.2	77.8	81.7	85.6	1289.9	12.2	11.22	W14X426	C2
		7432.6	1961.0	380.0	398.8	417.7	176153.3	3.72	3.42	W360X634	
75-1887	IZ	138.5	74.3	75.5	80.7	85.9	1240.6	13.32	12.27	W14X370	D3
		7446.9	1887.0	368.6	394.1	419.6	169416.5	4.06	3.74	W360X551	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
75-1744	IZ	139.7	68.6	81.7	85.7	89.7	1278.8	12.2	11.22	W14X398	D2
		7511.1	1743.6	398.7	418.3	437.9	174634.0	3.72	3.42	W360X592	
75-1853	IZ	140.0	73.0	50.8	56.1	61.4	2166.3	13.32	12.27	W30X211	D3
		7527.4	1853.0	247.8	273.8	299.8	295828.0	4.06	3.74	W760X314	
75-1851	IZ	140.1	72.9	50.1	53.9	57.6	2192.5	12.2	11.22	W30X235	D1
		7532.3	1851.0	244.5	263.0	281.4	299410.0	3.72	3.42	W760X350	
76-1630	IZ	140.5	64.2	47.0	51.3	55.6	2552.2	12.2	11.22	W36X182	D2
		7551.9	1629.6	229.6	250.5	271.5	348520.7	3.72	3.42	W920X271	
76-1845	IZ	140.5	72.6	44.4	48.5	52.6	2563.4	12.2	11.22	W36X194	C2
		7552.3	1845.0	216.7	236.7	256.8	350049.4	3.72	3.42	W920X289	
76-1831	IZ	140.8	72.1	54.5	58.3	62.1	2039.3	12.2	11.22	W27X258	D1
		7567.6	1831.0	266.1	284.7	303.4	278487.1	3.72	3.42	W690X384	
76-1870	IZ	141.0	73.6	47.3	51.1	54.8	2392.0	12.2	11.22	W33X221	D1
		7578.7	1870.0	231.1	249.4	267.7	326642.1	3.72	3.42	W840X329	
76-2023	IZ	141.1	79.7	57.2	61.0	64.7	1913.6	12.2	11.22	W24X306	C1
		7585.4	2023.4	279.4	297.7	316.0	261315.6	3.72	3.42	W610X455	
76-2115	IZ	141.3	83.3	82.8	86.4	89.9	1385.2	12.2	11.22	W14X500	C1
		7597.0	2115.4	404.2	421.7	439.2	189165.6	3.72	3.42	W360X744	
76-1707	IZ	141.4	67.2	50.1	54.2	58.3	2187.1	12.2	11.22	W30X211	D2
		7599.6	1706.6	244.5	264.5	284.5	298663.7	3.72	3.42	W760X314	
76-1983	IZ	141.7	78.1	43.9	49.2	54.4	2761.1	13.32	12.27	W40X183	C3
		7617.1	1983.4	214.4	240.1	265.8	377048.2	4.06	3.74	W1000X272	
76-1869	IZ	141.7	73.6	48.7	54.0	59.2	2385.3	13.32	12.27	W33X201	D3
		7619.5	1869.0	237.7	263.5	289.2	325733.3	4.06	3.74	W840X299	
76-1778	IZ	141.8	70.0	47.9	51.8	55.8	2601.1	12.2	11.22	W36X210	D1
		7622.5	1778.0	233.8	253.0	272.2	355208.8	3.72	3.42	W920X313	
76-1658	IZ	141.8	65.3	58.6	62.9	67.1	1867.7	12.2	11.22	W24X250	D2
		7624.8	1657.6	286.3	306.9	327.5	255048.2	3.72	3.42	W610X372	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
76-1804	IZ	142.2	71.0	58.6	64.1	69.6	1872.3	13.32	12.27	W24X250	D3
		7643.5	1804.0	286.3	313.0	339.7	255675.1	4.06	3.74	W610X372	
77-2107	IZ	143.0	83.0	76.5	81.5	86.4	1334.0	13.32	12.27	W14X426	C3
		7686.5	2107.4	373.5	397.7	421.9	182170.8	4.06	3.74	W360X634	
77-2047	IZ	143.7	80.6	53.1	56.8	60.5	2105.3	12.2	11.22	W27X281	C1
		7728.3	2047.4	259.3	277.3	295.4	287491.5	3.72	3.42	W690X419	
77-1869	IZ	143.8	73.6	43.7	47.4	51.2	2780.2	12.2	11.22	W40X199	D1
		7732.3	1869.0	213.2	231.5	249.7	379657.2	3.72	3.42	W1000X296	
77-1723	IZ	144.1	67.8	47.8	51.9	56.0	2424.5	12.2	11.22	W33X201	D2
		7744.7	1722.6	233.6	253.4	273.2	331084.2	3.72	3.42	W840X299	
78-1777	IZ	144.5	70.0	49.9	55.5	61.0	2636.0	13.32	12.27	W36X194	D3
		7766.2	1777.0	243.9	270.9	298.0	359963.7	4.06	3.74	W920X289	
78-1829	IZ	144.7	72.0	55.6	60.9	66.3	2073.7	13.32	12.27	W27X235	D3
		7779.8	1829.0	271.3	297.6	323.9	283184.9	4.06	3.74	W690X350	
78-2021	IZ	144.9	79.6	57.6	62.7	67.9	1936.7	13.32	12.27	W24X279	C3
		7789.9	2021.4	281.0	306.3	331.5	264468.3	4.06	3.74	W610X415	
78-1875	IZ	145.0	73.8	57.5	61.5	65.6	1937.6	12.2	11.22	W24X279	C2
		7793.8	1875.0	280.6	300.3	320.0	264600.7	3.72	3.42	W610X415	
78-2086	IZ	145.0	82.1	46.2	49.8	53.4	2478.1	12.2	11.22	W33X241	C1
		7797.4	2086.4	225.5	243.2	260.9	338405.8	3.72	3.42	W840X359	
78-1837	IZ	145.1	72.3	42.7	46.9	51.0	2827.8	12.2	11.22	W40X183	C2
		7801.1	1837.0	208.6	228.8	248.9	386155.4	3.72	3.42	W1000X272	
78-2068	IZ	145.1	81.4	49.5	53.2	56.9	2293.7	12.2	11.22	W30X261	C1
		7801.2	2068.4	241.9	259.7	277.6	313219.4	3.72	3.42	W760X389	
78-1890	IZ	145.2	74.4	79.9	85.1	90.3	1328.8	13.32	12.27	W14X398	D3
		7804.8	1890.0	390.0	415.5	441.0	181461.4	4.06	3.74	W360X592	
78-1965	IZ	145.2	77.4	82.2	86.0	89.9	1380.4	12.2	11.22	W14X455	C2
		7805.6	1965.0	401.2	420.0	438.8	188505.5	3.72	3.42	W360X677	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
78-2101	IZ	145.4	82.7	44.2	47.8	51.4	2609.5	12.2	11.22	W36X230	C1
		7814.7	2101.4	215.6	233.2	250.8	356348.2	3.72	3.42	W920X342	
78-2065	IZ	145.4	81.3	49.9	54.9	60.0	2275.6	13.32	12.27	W30X235	C3
		7817.5	2065.4	243.5	268.2	292.8	310747.4	4.06	3.74	W760X350	
78-2084	IZ	145.6	82.1	47.4	52.4	57.4	2470.7	13.32	12.27	W33X221	C3
		7828.3	2084.4	231.5	255.9	280.4	337399.6	4.06	3.74	W840X329	
78-1683	IZ	145.6	66.2	55.3	59.4	63.6	2086.7	12.2	11.22	W27X235	D2
		7828.6	1682.6	269.9	290.2	310.5	284960.9	3.72	3.42	W690X350	
79-1992	IZ	146.3	78.4	47.9	53.1	58.4	2684.3	13.32	12.27	W36X210	C3
		7866.3	1992.4	233.9	259.5	285.1	366569.2	4.06	3.74	W920X313	
79-2045	IZ	146.7	80.5	53.8	58.9	64.0	2125.4	13.32	12.27	W27X258	C3
		7887.1	2045.4	262.8	287.7	312.6	290246.0	4.06	3.74	W690X384	
79-1919	IZ	147.1	75.6	49.2	53.1	57.1	2302.4	12.2	11.22	W30X235	C2
		7909.6	1919.0	240.2	259.5	278.8	314407.3	3.72	3.42	W760X350	
79-1983	IZ	147.5	78.1	43.9	47.7	51.5	2904.5	12.2	11.22	W40X211	C1
		7932.6	1983.4	214.2	232.9	251.5	396629.6	3.72	3.42	W1000X314	
79-2083	IZ	147.7	82.0	44.1	49.1	54.1	2854.3	13.32	12.27	W40X199	C3
		7938.5	2083.4	215.4	239.9	264.3	389781.7	4.06	3.74	W1000X296	
79-1899	IZ	147.8	74.8	53.4	57.4	61.4	2140.9	12.2	11.22	W27X258	C2
		7944.7	1899.0	261.0	280.4	299.9	292364.0	3.72	3.42	W690X384	
80-1631	IZ	148.0	64.2	49.2	53.5	57.7	2699.9	12.2	11.22	W36X194	D2
		7954.5	1630.6	240.0	261.0	281.9	368689.9	3.72	3.42	W920X289	
80-1938	IZ	148.0	76.3	46.6	50.5	54.4	2512.0	12.2	11.22	W33X221	C2
		7959.1	1938.0	227.3	246.4	265.5	343037.0	3.72	3.42	W840X329	
80-1747	IZ	148.2	68.8	86.4	90.4	94.4	1382.4	12.2	11.22	W14X426	D2
		7965.1	1746.6	421.8	441.4	461.0	188773.1	3.72	3.42	W360X634	
80-1769	IZ	148.2	69.6	48.3	53.8	59.4	2887.3	13.32	12.27	W40X183	D3
		7965.3	1769.0	235.6	262.9	290.1	394283.6	4.06	3.74	W1000X272	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
80-2111	IZ	149.2	83.1	80.5	85.5	90.4	1418.1	13.32	12.27	W14X455	C3
		8018.8	2111.4	393.2	417.4	441.5	193655.1	4.06	3.74	W360X677	
80-1809	IZ	149.4	71.2	63.1	66.9	70.8	2026.8	12.2	11.22	W24X306	D1
		8034.1	1809.0	307.9	326.8	345.7	276773.4	3.72	3.42	W610X455	
80-1846	IZ	149.6	72.7	47.1	51.2	55.3	2744.6	12.2	11.22	W36X210	C2
		8042.9	1846.0	229.7	249.8	269.8	374801.0	3.72	3.42	W920X313	
80-1991	IZ	149.6	78.4	46.8	50.7	54.5	2777.3	12.2	11.22	W36X232	C1
		8043.8	1991.4	228.7	247.3	265.9	379267.4	3.72	3.42	W920X345	
81-1901	IZ	150.3	74.8	91.2	94.9	98.6	1473.2	12.2	11.22	W14X500	D1
		8079.5	1901.0	445.4	463.4	481.3	201178.5	3.72	3.42	W360X744	
81-2083	IZ	151.0	82.0	42.5	46.1	49.7	2943.5	12.2	11.22	W40X215	C1
		8120.4	2083.4	207.3	225.1	242.8	401961.9	3.72	3.42	W1000X321	
81-1937	IZ	151.3	76.3	43.0	46.9	50.8	2924.6	12.2	11.22	W40X199	C2
		8134.0	1937.0	210.0	229.1	248.2	399381.1	3.72	3.42	W1000X296	
82-1833	IZ	152.0	72.2	58.4	62.2	66.0	2226.3	12.2	11.22	W27X281	D1
		8172.7	1833.0	285.0	303.7	322.3	304024.2	3.72	3.42	W690X419	
82-2026	IZ	152.4	79.8	61.6	65.3	69.1	2097.1	12.2	11.22	W24X335	C1
		8193.8	2026.4	300.7	319.0	337.2	286373.8	3.72	3.42	W610X498	
82-1872	IZ	152.5	73.7	50.6	54.3	58.0	2605.7	12.2	11.22	W33X241	D1
		8199.0	1872.0	246.8	265.1	283.3	355837.9	3.72	3.42	W840X359	
82-1887	IZ	152.5	74.3	48.3	52.0	55.7	2737.9	12.2	11.22	W36X230	D1
		8199.1	1887.0	235.7	253.8	271.9	373878.4	3.72	3.42	W920X342	
82-1623	IZ	152.6	63.9	47.3	51.6	55.9	2974.2	12.2	11.22	W40X183	D2
		8205.0	1622.6	231.0	252.1	273.2	406149.3	3.72	3.42	W1000X272	
82-1893	IZ	152.6	74.5	84.3	89.5	94.7	1424.3	13.32	12.27	W14X426	D3
		8206.6	1893.0	411.4	436.8	462.2	194496.2	4.06	3.74	W360X634	
82-1854	IZ	153.1	73.0	54.3	58.1	61.9	2419.7	12.2	11.22	W30X261	D1
		8230.1	1854.0	265.3	283.7	302.1	330436.5	3.72	3.42	W760X389	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
82-1870	IZ	153.3	73.6	51.9	57.2	62.5	2601.0	13.32	12.27	W33X221	D3
		8241.1	1870.0	253.6	279.3	305.0	355193.3	4.06	3.74	W840X329	
83-1851	IZ	153.6	72.9	54.7	60.1	65.4	2403.8	13.32	12.27	W30X235	D3
		8258.0	1851.0	267.2	293.2	319.2	328254.2	4.06	3.74	W760X350	
83-1778	IZ	153.8	70.0	52.7	58.3	63.8	2821.0	13.32	12.27	W36X210	D3
		8266.9	1778.0	257.4	284.5	311.6	385237.3	4.06	3.74	W920X313	
83-2102	IZ	153.9	82.8	46.4	50.0	53.6	2774.8	12.2	11.22	W36X245	C1
		8273.4	2102.4	226.4	244.0	261.5	378923.8	3.72	3.42	W920X365	
83-1807	IZ	153.9	71.1	63.4	68.9	74.4	2057.2	13.32	12.27	W24X279	D3
		8274.8	1807.0	309.7	336.4	363.0	280930.7	4.06	3.74	W610X415	
83-2120	IZ	154.3	83.5	89.6	93.1	96.7	1561.0	12.2	11.22	W14X550	C1
		8294.3	2120.4	437.3	454.8	472.2	213164.7	3.72	3.42	W360X818	
83-2050	IZ	154.4	80.7	56.8	60.5	64.2	2285.6	12.2	11.22	W27X307	C1
		8300.9	2050.4	277.3	295.3	313.3	312112.4	3.72	3.42	W690X457	
83-1769	IZ	154.5	69.6	48.2	52.2	56.1	3041.5	12.2	11.22	W40X211	D1
		8306.9	1769.0	235.4	254.8	274.1	415345.1	3.72	3.42	W1000X314	
83-1869	IZ	154.6	73.6	48.3	53.5	58.8	2989.4	13.32	12.27	W40X199	D3
		8314.1	1869.0	235.6	261.4	287.1	408223.7	4.06	3.74	W1000X296	
83-1661	IZ	154.8	65.4	63.9	68.1	72.3	2068.9	12.2	11.22	W24X279	D2
		8322.0	1660.6	311.8	332.4	352.9	282531.5	3.72	3.42	W610X415	
84-2023	IZ	155.3	79.7	61.5	66.6	71.8	2106.8	13.32	12.27	W24X306	C3
		8351.3	2023.4	300.2	325.3	350.5	287701.9	4.06	3.74	W610X455	
84-1831	IZ	155.5	72.1	59.2	64.6	70.0	2252.8	13.32	12.27	W27X258	D3
		8360.0	1831.0	289.0	315.3	341.6	307646.4	4.06	3.74	W690X384	
84-2101	IZ	155.7	82.7	48.3	53.2	58.2	2795.5	13.32	12.27	W36X230	C3
		8371.8	2101.4	235.6	259.9	284.1	381755.0	4.06	3.74	W920X342	
84-1751	IZ	155.7	68.9	91.3	95.2	99.2	1480.6	12.2	11.22	W14X455	D2
		8372.3	1750.6	445.5	465.1	484.6	202190.0	3.72	3.42	W360X677	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
84-2086	IZ	156.0	82.1	50.3	55.3	60.3	2665.5	13.32	12.27	W33X241	C3
		8387.0	2086.4	245.6	270.0	294.4	363995.3	4.06	3.74	W840X359	
84-1705	IZ	156.2	67.1	54.4	58.5	62.6	2444.9	12.2	11.22	W30X235	D2
		8399.4	1704.6	265.5	285.6	305.6	333878.1	3.72	3.42	W760X350	
84-1877	IZ	156.4	73.9	61.7	65.7	69.8	2121.0	12.2	11.22	W24X306	C2
		8407.7	1877.0	301.2	320.9	340.6	289646.3	3.72	3.42	W610X455	
84-1724	IZ	156.7	67.9	51.4	55.4	59.5	2658.5	12.2	11.22	W33X221	D2
		8423.3	1723.6	250.8	270.6	290.4	363043.4	3.72	3.42	W840X329	
84-2047	IZ	156.8	80.6	57.3	62.4	67.5	2296.2	13.32	12.27	W27X281	C3
		8429.3	2047.4	279.8	304.7	329.5	313568.5	4.06	3.74	W690X419	
84-2068	IZ	157.1	81.4	53.7	58.7	63.8	2482.7	13.32	12.27	W30X261	C3
		8444.1	2068.4	262.1	286.8	311.4	339031.6	4.06	3.74	W760X389	
85-1777	IZ	157.2	70.0	51.5	55.5	59.4	2918.5	12.2	11.22	W36X232	D1
		8452.9	1777.0	251.6	270.8	290.1	398552.4	3.72	3.42	W920X345	
85-1685	IZ	157.5	66.3	59.2	63.4	67.5	2281.4	12.2	11.22	W27X258	D2
		8465.9	1684.6	289.2	309.5	329.7	311546.1	3.72	3.42	W690X384	
85-1969	IZ	157.5	77.5	88.9	92.8	96.6	1543.7	12.2	11.22	W14X500	C2
		8466.2	1969.0	434.3	453.0	471.8	210807.9	3.72	3.42	W360X744	
85-1983	IZ	157.6	78.1	48.2	53.5	58.7	3101.6	13.32	12.27	W40X211	C3
		8471.0	1983.4	235.4	261.1	286.7	423548.0	4.06	3.74	W1000X314	
85-2084	IZ	158.1	82.1	49.5	53.1	56.7	2729.1	12.2	11.22	W33X263	C1
		8498.9	2084.4	241.5	259.2	277.0	372678.5	3.72	3.42	W840X392	
85-1632	IZ	158.2	64.2	52.2	56.5	60.8	2901.5	12.2	11.22	W36X210	D2
		8502.7	1631.6	254.8	275.7	296.7	396225.9	3.72	3.42	W920X313	
85-1869	IZ	158.2	73.6	46.4	50.2	53.9	3083.9	12.2	11.22	W40X215	D1
		8507.7	1869.0	226.6	244.9	263.2	421133.3	3.72	3.42	W1000X321	
85-1901	IZ	158.7	74.8	57.2	61.2	65.2	2324.9	12.2	11.22	W27X281	C2
		8534.4	1901.0	279.3	298.7	318.1	317480.4	3.72	3.42	W690X419	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
86-1940	IZ	159.3	76.4	49.7	53.6	57.5	2721.4	12.2	11.22	W33X241	C2
		8563.0	1940.0	242.5	261.5	280.6	371634.0	3.72	3.42	W840X359	
86-1897	IZ	159.3	74.7	88.7	93.9	99.1	1514.8	13.32	12.27	W14X455	D3
		8565.9	1897.0	433.3	458.6	484.0	206865.5	4.06	3.74	W360X677	
86-1723	IZ	159.3	67.8	47.4	51.4	55.5	3079.9	12.2	11.22	W40X199	D2
		8565.9	1722.6	231.3	251.1	271.0	420585.3	3.72	3.42	W1000X296	
86-1955	IZ	159.4	77.0	47.5	51.3	55.2	2860.8	12.2	11.22	W36X230	C2
		8567.2	1955.0	231.8	250.7	269.6	390665.0	3.72	3.42	W920X342	
86-1922	IZ	159.8	75.7	53.3	57.2	61.2	2525.2	12.2	11.22	W30X261	C2
		8588.8	1922.0	260.3	279.5	298.7	344840.2	3.72	3.42	W760X389	
86-2070	IZ	160.2	81.5	54.0	57.6	61.3	2563.1	12.2	11.22	W30X292	C1
		8610.5	2070.4	263.6	281.5	299.3	350017.9	3.72	3.42	W760X434	
86-2115	IZ	160.2	83.3	86.9	91.8	96.7	1570.1	13.32	12.27	W14X500	C3
		8610.6	2115.4	424.0	448.1	472.2	214404.3	4.06	3.74	W360X744	
86-1991	IZ	160.2	78.4	51.2	56.4	61.6	2973.6	13.32	12.27	W36X232	C3
		8612.5	1991.4	249.8	275.4	301.0	406077.7	4.06	3.74	W920X345	
86-2083	IZ	160.7	82.0	46.6	51.6	56.6	3131.2	13.32	12.27	W40X215	C3
		8638.1	2083.4	227.5	251.9	276.4	427588.3	4.06	3.74	W1000X321	
87-1985	IZ	161.2	78.2	47.5	51.3	55.1	3199.5	12.2	11.22	W40X235	C1
		8669.2	1985.4	231.8	250.4	269.0	436926.2	3.72	3.42	W1000X350	
87-1812	IZ	161.9	71.3	67.9	71.8	75.7	2227.1	12.2	11.22	W24X335	D1
		8702.0	1812.0	331.7	350.5	369.4	304135.4	3.72	3.42	W610X498	
87-1888	IZ	161.9	74.3	50.7	54.4	58.1	2919.5	12.2	11.22	W36X245	D1
		8704.8	1888.0	247.6	265.7	283.8	398679.5	3.72	3.42	W920X365	
87-2103	IZ	162.2	82.8	48.5	52.1	55.7	2940.7	12.2	11.22	W36X260	C1
		8720.5	2103.4	236.7	254.3	271.9	401577.8	3.72	3.42	W920X387	
87-1837	IZ	162.3	72.3	47.4	51.5	55.6	3195.4	12.2	11.22	W40X211	C2
		8727.2	1837.0	231.3	251.4	271.5	436361.0	3.72	3.42	W1000X314	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
88-1993	IZ	162.7	78.5	50.6	54.4	58.2	3045.3	12.2	11.22	W36X256	C1
		8745.7	1993.4	247.0	265.6	284.1	415857.6	3.72	3.42	W920X381	
88-1836	IZ	163.7	72.3	62.5	66.3	70.1	2423.5	12.2	11.22	W27X307	D1
		8802.0	1836.0	305.1	323.7	342.3	330956.3	3.72	3.42	W690X457	
88-1887	IZ	164.0	74.3	52.8	58.1	63.3	2945.0	13.32	12.27	W36X230	D3
		8819.6	1887.0	257.9	283.4	309.0	402172.4	4.06	3.74	W920X342	
88-2102	IZ	164.2	82.8	50.5	55.4	60.4	2960.8	13.32	12.27	W36X245	C3
		8827.9	2102.4	246.3	270.6	294.8	404318.6	4.06	3.74	W920X365	
88-1906	IZ	164.4	75.0	98.7	102.4	106.1	1663.1	12.2	11.22	W14X550	D1
		8837.0	1906.0	482.1	500.0	518.0	227110.0	3.72	3.42	W360X818	
89-1845	IZ	164.7	72.6	50.6	54.7	58.8	3056.9	12.2	11.22	W36X232	C2
		8853.6	1845.0	246.9	266.9	287.0	417448.9	3.72	3.42	W920X345	
89-1872	IZ	164.7	73.7	55.1	60.4	65.7	2814.6	13.32	12.27	W33X241	D3
		8856.2	1872.0	269.2	294.9	320.7	384358.5	4.06	3.74	W840X359	
89-1937	IZ	165.4	76.3	45.7	49.6	53.5	3222.4	12.2	11.22	W40X215	C2
		8889.8	1937.0	223.0	242.1	261.2	440045.1	3.72	3.42	W1000X321	
89-1809	IZ	165.4	71.2	67.8	73.3	78.7	2242.9	13.32	12.27	W24X306	D3
		8890.8	1809.0	331.1	357.7	384.3	306287.3	4.06	3.74	W610X455	
89-1769	IZ	165.7	69.6	53.1	58.7	64.2	3262.5	13.32	12.27	W40X211	D3
		8910.5	1769.0	259.2	286.4	313.6	445526.3	4.06	3.74	W1000X314	
89-2030	IZ	166.0	79.9	66.8	70.5	74.2	2323.4	12.2	11.22	W24X370	C1
		8925.0	2030.4	326.0	344.2	362.4	317283.0	3.72	3.42	W610X551	
90-1854	IZ	166.4	73.0	59.0	64.3	69.6	2630.6	13.32	12.27	W30X261	D3
		8947.3	1854.0	287.9	313.9	339.9	359234.1	4.06	3.74	W760X389	
90-2026	IZ	166.4	79.8	65.8	71.0	76.1	2290.0	13.32	12.27	W24X335	C3
		8947.7	2026.4	321.4	346.6	371.7	312721.1	4.06	3.74	W610X498	
90-1833	IZ	166.6	72.2	63.1	68.4	73.8	2439.6	13.32	12.27	W27X281	D3
		8955.7	1833.0	307.9	334.2	360.5	333151.7	4.06	3.74	W690X419	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
90-1870	IZ	166.9	73.6	54.2	58.0	61.7	2880.8	12.2	11.22	W33X263	D1
		8971.4	1870.0	264.7	283.0	301.2	393394.3	3.72	3.42	W840X392	
90-2053	IZ	167.1	80.8	61.0	64.7	68.4	2505.8	12.2	11.22	W27X336	C1
		8981.4	2053.4	297.9	315.9	333.9	342191.7	3.72	3.42	W690X500	
90-2050	IZ	167.3	80.7	61.0	66.1	71.2	2476.2	13.32	12.27	W27X307	C3
		8993.4	2050.4	297.7	322.6	347.4	338151.2	4.06	3.74	W690X457	
90-1663	IZ	167.4	65.5	68.6	72.8	77.0	2271.0	12.2	11.22	W24X306	D2
		9002.0	1662.6	335.0	355.6	376.1	310119.0	3.72	3.42	W610X455	
91-1880	IZ	168.5	74.0	66.4	70.4	74.4	2318.5	12.2	11.22	W24X335	C2
		9059.0	1880.0	324.1	343.8	363.5	316610.6	3.72	3.42	W610X498	
91-1956	IZ	168.5	77.0	49.8	53.7	57.6	3038.3	12.2	11.22	W36X245	C2
		9059.2	1956.0	243.3	262.2	281.1	414912.8	3.72	3.42	W920X365	
91-1741	IZ	168.8	68.5	52.3	56.4	60.4	3030.9	12.2	11.22	W36X230	D2
		9076.7	1740.6	255.5	275.1	294.8	413897.2	3.72	3.42	W920X342	
91-2083	IZ	168.8	82.0	44.6	48.3	51.9	3622.8	12.2	11.22	W44X230	C1
		9077.6	2083.4	217.9	235.6	253.4	494730.1	3.72	3.42	W1100X343	
91-2084	IZ	168.9	82.1	53.6	58.6	63.6	2916.6	13.32	12.27	W33X263	C3
		9083.1	2084.4	261.6	286.1	310.5	398292.5	4.06	3.74	W840X392	
91-1869	IZ	169.0	73.6	51.0	56.3	61.6	3293.1	13.32	12.27	W40X215	D3
		9084.8	1869.0	249.1	274.8	300.6	449699.8	4.06	3.74	W1000X321	
91-1777	IZ	169.1	70.0	56.4	61.9	67.5	3138.6	13.32	12.27	W36X232	D3
		9090.1	1777.0	275.2	302.3	329.4	428597.8	4.06	3.74	W920X345	
91-2125	IZ	169.1	83.7	97.7	101.2	104.8	1767.5	12.2	11.22	W14X605	C1
		9091.1	2125.4	476.9	494.3	511.7	241368.5	3.72	3.42	W360X900	
91-1726	IZ	169.1	67.9	54.8	58.9	62.9	2890.1	12.2	11.22	W33X241	D2
		9093.9	1725.6	267.7	287.5	307.3	394674.0	3.72	3.42	W840X359	
91-1755	IZ	169.2	69.1	98.8	102.8	106.8	1658.4	12.2	11.22	W14X500	D2
		9095.1	1754.6	482.5	502.0	521.5	226468.1	3.72	3.42	W360X744	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
91-1687	IZ	169.6	66.4	63.4	67.6	71.7	2484.4	12.2	11.22	W27X281	D2
		9119.9	1686.6	309.8	330.0	350.3	339260.7	3.72	3.42	W690X419	
91-1856	IZ	169.6	73.1	59.3	63.1	66.8	2715.0	12.2	11.22	W30X292	D1
		9120.7	1856.0	289.5	307.9	326.4	370756.5	3.72	3.42	W760X434	
91-1771	IZ	169.7	69.7	52.3	56.2	60.2	3366.8	12.2	11.22	W40X235	D1
		9122.3	1771.0	255.1	274.4	293.7	459764.9	3.72	3.42	W1000X350	
92-1904	IZ	170.1	75.0	61.2	65.1	69.1	2518.7	12.2	11.22	W27X307	C2
		9147.5	1904.0	298.6	318.0	337.4	343947.1	3.72	3.42	W690X457	
92-1708	IZ	170.3	67.2	59.0	63.1	67.2	2691.2	12.2	11.22	W30X261	D2
		9153.3	1707.6	288.0	308.0	328.1	367504.2	3.72	3.42	W760X389	
92-2083	IZ	170.8	82.0	47.4	51.0	54.7	3362.6	12.2	11.22	W40X249	C1
		9183.8	2083.4	231.4	249.2	266.9	459189.4	3.72	3.42	W1000X371	
92-1889	IZ	171.1	74.4	53.1	56.8	60.5	3101.3	12.2	11.22	W36X260	D1
		9196.9	1889.0	259.1	277.2	295.3	423516.2	3.72	3.42	W920X387	
92-1985	IZ	171.2	78.2	51.8	57.1	62.3	3396.5	13.32	12.27	W40X235	C3
		9202.7	1985.4	252.9	278.6	304.3	463817.5	4.06	3.74	W1000X350	
92-1974	IZ	171.2	77.7	96.2	100.0	103.9	1732.1	12.2	11.22	W14X550	C2
		9203.6	1974.0	469.8	488.5	507.2	236532.1	3.72	3.42	W360X818	
92-1901	IZ	171.3	74.8	95.7	100.9	106.1	1678.9	13.32	12.27	W14X500	D3
		9207.4	1901.0	467.5	492.8	518.1	229264.1	4.06	3.74	W360X744	
92-1779	IZ	171.7	70.0	55.7	59.7	63.6	3213.6	12.2	11.22	W36X256	D1
		9229.1	1779.0	272.1	291.3	310.5	438845.7	3.72	3.42	W920X381	
92-1623	IZ	171.9	63.9	52.6	56.9	61.2	3383.3	12.2	11.22	W40X211	D2
		9240.3	1622.6	256.7	277.7	298.8	462015.5	3.72	3.42	W1000X314	
92-2070	IZ	172.0	81.5	58.1	63.2	68.2	2752.0	13.32	12.27	W30X292	C3
		9244.9	2070.4	283.9	308.5	333.1	375805.2	4.06	3.74	W760X434	
93-2087	IZ	172.3	82.2	53.5	57.1	60.7	3000.8	12.2	11.22	W33X291	C1
		9260.7	2087.4	261.1	278.8	296.5	409788.0	3.72	3.42	W840X433	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
93-2103	IZ	172.5	82.8	52.6	57.5	62.5	3126.6	13.32	12.27	W36X260	C3
		9271.7	2103.4	256.7	280.9	305.1	426960.5	4.06	3.74	W920X387	
93-2120	IZ	172.5	83.5	93.6	98.5	103.5	1745.4	13.32	12.27	W14X550	C3
		9274.1	2120.4	457.1	481.1	505.2	238343.9	4.06	3.74	W360X818	
93-1993	IZ	173.1	78.5	54.9	60.1	65.4	3241.4	13.32	12.27	W36X256	C3
		9309.0	1993.4	268.1	293.6	319.2	442640.9	4.06	3.74	W920X381	
93-1938	IZ	173.3	76.3	53.2	57.1	61.0	2991.6	12.2	11.22	W33X263	C2
		9316.5	1938.0	259.7	278.8	297.9	408529.9	3.72	3.42	W840X392	
93-1888	IZ	173.4	74.3	55.3	60.5	65.7	3126.6	13.32	12.27	W36X245	D3
		9322.2	1888.0	269.8	295.3	320.8	426958.4	4.06	3.74	W920X365	
94-2105	IZ	173.9	82.9	51.4	55.0	58.6	3176.0	12.2	11.22	W36X280	C1
		9347.2	2105.4	251.0	268.6	286.1	433708.1	3.72	3.42	W920X417	
94-1723	IZ	174.9	67.8	50.4	54.4	58.5	3409.4	12.2	11.22	W40X215	D2
		9405.8	1722.6	245.9	265.7	285.5	465586.4	3.72	3.42	W1000X321	
94-1631	IZ	174.9	64.2	56.2	60.5	64.7	3247.6	12.2	11.22	W36X232	D2
		9405.9	1630.6	274.2	295.2	316.1	443486.2	3.72	3.42	W920X345	
94-2073	IZ	175.6	81.6	58.9	62.5	66.2	2844.9	12.2	11.22	W30X326	C1
		9441.0	2073.4	287.5	305.3	323.1	388498.7	3.72	3.42	W760X484	
95-1924	IZ	175.9	75.7	58.1	62.0	66.0	2814.9	12.2	11.22	W30X292	C2
		9456.5	1924.0	283.7	302.9	322.1	384405.9	3.72	3.42	W760X434	
95-1986	IZ	175.9	78.2	51.9	55.7	59.5	3518.0	12.2	11.22	W40X264	C1
		9456.9	1986.4	253.4	272.0	290.6	480409.6	3.72	3.42	W1000X393	
95-1816	IZ	176.8	71.5	73.7	77.6	81.4	2474.3	12.2	11.22	W24X370	D1
		9504.4	1816.0	359.9	378.7	397.5	337880.9	3.72	3.42	W610X551	
95-1839	IZ	177.1	72.4	51.3	55.4	59.5	3513.7	12.2	11.22	W40X235	C2
		9520.3	1839.0	250.3	270.4	290.5	479822.4	3.72	3.42	W1000X350	
95-1869	IZ	177.2	73.6	48.8	52.6	56.3	3802.2	12.2	11.22	W44X230	D1
		9526.9	1869.0	238.4	256.7	274.9	519218.4	3.72	3.42	W1100X343	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
95-1957	IZ	177.4	77.0	52.1	56.0	59.8	3216.5	12.2	11.22	W36X260	C2
		9538.4	1957.0	254.4	273.3	292.2	439243.1	3.72	3.42	W920X387	
96-1812	IZ	177.5	71.3	72.7	78.1	83.6	2442.9	13.32	12.27	W24X335	D3
		9545.1	1812.0	354.8	381.4	408.0	333600.5	4.06	3.74	W610X498	
96-2083	IZ	177.6	82.0	48.7	53.8	58.8	3810.5	13.32	12.27	W44X230	C3
		9547.8	2083.4	238.0	262.5	286.9	520356.5	4.06	3.74	W1100X343	
96-1839	IZ	177.6	72.4	67.2	71.0	74.8	2664.4	12.2	11.22	W27X336	D1
		9549.8	1839.0	328.1	346.7	365.2	363848.8	3.72	3.42	W690X500	
96-1836	IZ	178.1	72.3	67.2	72.5	77.9	2636.5	13.32	12.27	W27X307	D3
		9575.4	1836.0	327.9	354.2	380.4	360036.1	4.06	3.74	W690X457	
96-1847	IZ	178.7	72.7	54.6	58.7	62.8	3345.8	12.2	11.22	W36X256	C2
		9608.8	1847.0	266.6	286.6	306.6	456897.9	3.72	3.42	W920X381	
96-1870	IZ	179.0	73.6	58.8	64.1	69.4	3089.8	13.32	12.27	W33X263	D3
		9622.5	1870.0	287.1	312.9	338.6	421945.4	4.06	3.74	W840X392	
96-1742	IZ	179.0	68.6	55.0	59.0	63.0	3227.6	12.2	11.22	W36X245	D2
		9623.6	1741.6	268.4	288.1	307.7	440760.1	3.72	3.42	W920X365	
97-2053	IZ	179.7	80.8	65.2	70.3	75.4	2696.2	13.32	12.27	W27X336	C3
		9663.8	2053.4	318.3	343.1	368.0	368192.5	4.06	3.74	W690X500	
97-2030	IZ	179.8	79.9	71.0	76.1	81.3	2516.0	13.32	12.27	W24X370	C3
		9664.7	2030.4	346.7	371.8	396.9	343578.3	4.06	3.74	W610X551	
97-1869	IZ	180.1	73.6	51.9	55.7	59.4	3544.8	12.2	11.22	W40X249	D1
		9681.3	1869.0	253.5	271.8	290.1	484067.1	3.72	3.42	W1000X371	
97-2083	IZ	180.4	82.0	51.5	56.5	61.5	3550.2	13.32	12.27	W40X249	C3
		9696.3	2083.4	251.6	276.0	300.5	484815.8	4.06	3.74	W1000X371	
97-1911	IZ	180.5	75.2	107.7	111.4	115.1	1886.5	12.2	11.22	W14X605	D1
		9703.3	1911.0	526.0	543.9	561.8	257622.7	3.72	3.42	W360X900	
97-2055	IZ	180.6	80.9	65.7	69.4	73.1	2744.7	12.2	11.22	W27X368	C1
		9710.0	2055.4	320.9	338.9	356.9	374807.8	3.72	3.42	W690X548	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
97-1771	IZ	180.8	69.7	57.1	62.7	68.2	3587.6	13.32	12.27	W40X235	D3
		9720.5	1771.0	278.8	306.0	333.2	489912.1	4.06	3.74	W1000X350	
97-1666	IZ	180.9	65.6	73.9	78.1	82.3	2488.5	12.2	11.22	W24X335	D2
		9723.2	1665.6	360.8	381.3	401.8	339826.0	3.72	3.42	W610X498	
98-1690	IZ	182.3	66.5	67.9	72.0	76.2	2698.2	12.2	11.22	W27X307	D2
		9799.6	1689.6	331.5	351.7	372.0	368463.9	3.72	3.42	W690X457	
98-1873	IZ	182.5	73.7	58.7	62.4	66.2	3178.9	12.2	11.22	W33X291	D1
		9810.4	1873.0	286.5	304.7	323.0	434111.7	3.72	3.42	W840X433	
98-1889	IZ	182.5	74.4	57.6	62.8	68.1	3308.3	13.32	12.27	W36X260	D3
		9810.6	1889.0	281.3	306.8	332.3	451780.2	4.06	3.74	W920X387	
98-1856	IZ	182.8	73.1	63.9	69.2	74.6	2925.6	13.32	12.27	W30X292	D3
		9828.4	1856.0	312.1	338.1	364.0	399523.0	4.06	3.74	W760X434	
98-2087	IZ	183.0	82.2	57.6	62.6	67.6	3188.1	13.32	12.27	W33X291	C3
		9838.8	2087.4	281.2	305.6	330.0	435365.2	4.06	3.74	W840X433	
98-1884	IZ	183.0	74.2	72.0	76.0	80.0	2562.0	12.2	11.22	W24X370	C2
		9841.3	1884.0	351.4	371.0	390.6	349857.4	3.72	3.42	W610X551	
99-1987	IZ	183.4	78.2	54.1	58.0	61.8	3681.7	12.2	11.22	W40X278	C1
		9858.2	1987.4	264.4	283.0	301.6	502766.0	3.72	3.42	W1000X415	
99-1779	IZ	183.4	70.0	60.6	66.1	71.6	3433.4	13.32	12.27	W36X256	D3
		9860.3	1779.0	295.6	322.7	349.8	468857.3	4.06	3.74	W920X381	
99-1907	IZ	183.7	75.1	65.7	69.7	73.6	2755.5	12.2	11.22	W27X336	C2
		9876.3	1907.0	320.8	340.2	359.5	376285.5	3.72	3.42	W690X500	
99-1891	IZ	183.9	74.4	56.3	60.0	63.7	3359.2	12.2	11.22	W36X280	D1
		9886.4	1891.0	275.0	293.1	311.2	458728.6	3.72	3.42	W920X417	
99-2105	IZ	184.0	82.9	55.5	60.5	65.4	3361.7	13.32	12.27	W36X280	C3
		9893.7	2105.4	271.0	295.2	319.3	459066.7	4.06	3.74	W920X417	
99-1760	IZ	184.2	69.3	107.0	110.9	114.9	1863.6	12.2	11.22	W14X550	D2
		9902.2	1759.6	522.2	541.6	561.1	254485.3	3.72	3.42	W360X818	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
99-1937	IZ	184.2	76.3	48.0	51.9	55.8	3953.1	12.2	11.22	W44X230	C2
		9905.0	1937.0	234.4	253.4	272.5	539824.8	3.72	3.42	W1100X343	
99-2106	IZ	184.6	82.9	54.3	57.9	61.5	3390.2	12.2	11.22	W36X300	C1
		9924.0	2106.4	265.1	282.6	300.2	462956.5	3.72	3.42	W920X446	
99-1906	IZ	184.6	75.0	103.3	108.4	113.6	1868.2	13.32	12.27	W14X550	D3
		9926.9	1906.0	504.1	529.4	554.6	255121.9	4.06	3.74	W360X818	
99-1724	IZ	184.7	67.9	58.8	62.9	66.9	3188.8	12.2	11.22	W33X263	D2
		9930.8	1723.6	287.2	307.0	326.8	435465.4	3.72	3.42	W840X392	
99-2131	IZ	184.8	83.9	105.7	109.3	112.8	2000.7	12.2	11.22	W14X665	C1
		9935.0	2131.4	516.1	533.4	550.8	273213.3	3.72	3.42	W360X990	
100-1986	IZ	185.7	78.2	56.2	61.5	66.7	3714.8	13.32	12.27	W40X264	C3
		9986.0	1986.4	274.5	300.2	325.8	507287.4	4.06	3.74	W1000X393	
100-1772	IZ	185.9	69.8	57.2	61.2	65.1	3718.3	12.2	11.22	W40X264	D1
		9995.5	1772.0	279.3	298.6	317.9	507770.7	3.72	3.42	W1000X393	
100-2089	IZ	186.2	82.3	57.3	61.0	64.6	3273.4	12.2	11.22	W33X318	C1
		10011.5	2089.4	280.0	297.7	315.4	447011.6	3.72	3.42	W840X473	
100-1937	IZ	186.6	76.3	51.0	54.9	58.8	3673.1	12.2	11.22	W40X249	C2
		10032.0	1937.0	248.9	268.0	287.1	501597.9	3.72	3.42	W1000X371	
100-1859	IZ	186.6	73.2	64.7	68.5	72.3	3023.8	12.2	11.22	W30X326	D1
		10034.6	1859.0	316.1	334.5	352.9	412922.0	3.72	3.42	W760X484	
100-2125	IZ	186.7	83.7	101.7	106.6	111.5	1951.5	13.32	12.27	W14X605	C3
		10037.2	2125.4	496.7	520.6	544.6	266488.5	4.06	3.74	W360X900	
100-2085	IZ	186.8	82.1	51.4	55.0	58.6	3706.3	12.2	11.22	W40X277	C1
		10042.2	2085.4	250.8	268.5	286.3	506125.1	3.72	3.42	W1000X412	
101-1979	IZ	186.9	77.9	104.9	108.7	112.6	1953.5	12.2	11.22	W14X605	C2
		10047.6	1979.0	512.2	530.9	549.6	266763.3	3.72	3.42	W360X900	
101-1869	IZ	187.0	73.6	53.4	58.7	64.0	4011.3	13.32	12.27	W44X230	D3
		10051.1	1869.0	260.8	286.6	312.3	547784.8	4.06	3.74	W1100X343	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
101-2073	IZ	187.2	81.6	63.0	68.1	73.1	3033.5	13.32	12.27	W30X326	C3
		10066.8	2073.4	307.7	332.3	356.8	414248.7	4.06	3.74	W760X484	
101-1710	IZ	188.2	67.3	64.4	68.5	72.6	3011.4	12.2	11.22	W30X292	D2
		10116.4	1709.6	314.3	334.3	354.3	411233.6	3.72	3.42	W760X434	
101-1625	IZ	188.4	64.0	57.0	61.3	65.6	3737.4	12.2	11.22	W40X235	D2
		10126.6	1624.6	278.1	299.1	320.2	510380.9	3.72	3.42	W1000X350	
101-1941	IZ	188.5	76.4	57.5	61.4	65.3	3283.4	12.2	11.22	W33X291	C2
		10132.9	1941.0	280.8	299.8	318.9	448383.0	3.72	3.42	W840X433	
102-1743	IZ	188.9	68.6	57.5	61.5	65.6	3424.6	12.2	11.22	W36X260	D2
		10155.5	1742.6	280.9	300.5	320.1	467659.3	3.72	3.42	W920X387	
102-1959	IZ	189.9	77.1	55.3	59.1	63.0	3469.1	12.2	11.22	W36X280	C2
		10209.8	1959.0	269.8	288.7	307.5	473736.1	3.72	3.42	W920X417	
102-2076	IZ	190.4	81.7	63.4	67.0	70.7	3122.4	12.2	11.22	W30X357	C1
		10237.6	2076.4	309.4	327.2	345.0	426397.4	3.72	3.42	W760X531	
103-1633	IZ	190.6	64.3	60.7	65.0	69.3	3568.7	12.2	11.22	W36X256	D2
		10249.0	1632.6	296.5	317.4	338.3	487337.7	3.72	3.42	W920X381	
103-1869	IZ	190.7	73.6	56.5	61.8	67.1	3753.9	13.32	12.27	W40X249	D3
		10252.7	1869.0	275.9	301.7	327.5	512633.5	4.06	3.74	W1000X371	
103-2083	IZ	190.9	82.0	49.3	53.0	56.6	4134.1	12.2	11.22	W44X262	C1
		10264.4	2083.4	240.9	258.6	276.4	564543.4	3.72	3.42	W1100X390	
103-1839	IZ	191.8	72.4	71.9	77.2	82.6	2877.0	13.32	12.27	W27X336	D3
		10311.8	1839.0	350.9	377.1	403.2	392881.2	4.06	3.74	W690X500	
103-1816	IZ	192.2	71.5	78.4	83.9	89.3	2689.5	13.32	12.27	W24X370	D3
		10331.4	1816.0	383.0	409.5	436.0	367281.1	4.06	3.74	W610X551	
104-1927	IZ	192.4	75.9	63.4	67.3	71.2	3117.8	12.2	11.22	W30X326	C2
		10346.5	1927.0	309.3	328.5	347.7	425756.7	3.72	3.42	W760X484	
104-1841	IZ	192.5	72.5	72.4	76.2	80.1	2925.9	12.2	11.22	W27X368	D1
		10351.1	1841.0	353.7	372.3	390.8	399552.3	3.72	3.42	W690X548	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
104-1840	IZ	192.9	72.4	56.0	60.1	64.3	3857.3	12.2	11.22	W40X264	C2
		10368.9	1840.0	273.6	293.7	313.8	526742.2	3.72	3.42	W1000X393	
104-2055	IZ	193.1	80.9	69.9	75.0	80.1	2934.9	13.32	12.27	W27X368	C3
		10383.0	2055.4	341.3	366.1	390.9	400783.2	4.06	3.74	W690X548	
104-1987	IZ	193.2	78.2	58.5	63.7	69.0	3878.4	13.32	12.27	W40X278	C3
		10384.9	1987.4	285.5	311.1	336.7	529630.2	4.06	3.74	W1000X415	
104-1773	IZ	194.2	69.8	59.7	63.7	67.6	3899.0	12.2	11.22	W40X278	D1
		10440.0	1773.0	291.6	310.9	330.1	532439.0	3.72	3.42	W1000X415	
105-1873	IZ	194.5	73.7	63.3	68.5	73.8	3387.7	13.32	12.27	W33X291	D3
		10454.6	1873.0	308.9	334.6	360.3	462617.1	4.06	3.74	W840X433	
105-2106	IZ	194.7	82.9	58.4	63.3	68.3	3575.8	13.32	12.27	W36X300	C3
		10467.4	2106.4	285.0	309.2	333.4	488303.0	4.06	3.74	W920X446	
105-1891	IZ	195.2	74.4	60.9	66.1	71.3	3566.0	13.32	12.27	W36X280	D3
		10494.9	1891.0	297.2	322.7	348.2	486962.6	4.06	3.74	W920X417	
105-1723	IZ	195.2	67.8	53.0	57.0	61.1	4188.7	12.2	11.22	W44X230	D2
		10495.6	1722.6	258.6	278.5	298.3	572007.6	3.72	3.42	W1100X343	
105-1892	IZ	195.7	74.5	59.5	63.2	66.9	3594.5	12.2	11.22	W36X300	D1
		10522.3	1892.0	290.7	308.7	326.8	490864.0	3.72	3.42	W920X446	
105-2085	IZ	196.1	82.1	54.4	58.0	61.6	3906.1	12.2	11.22	W40X297	C1
		10541.7	2085.4	265.5	283.2	300.9	533412.2	3.72	3.42	W1000X443	
106-2085	IZ	196.2	82.1	55.5	60.5	65.5	3893.8	13.32	12.27	W40X277	C3
		10550.1	2085.4	270.9	295.3	319.8	531726.9	4.06	3.74	W1000X412	
106-2089	IZ	196.9	82.3	61.5	66.5	71.4	3460.5	13.32	12.27	W33X318	C3
		10583.7	2089.4	300.1	324.5	348.8	472564.4	4.06	3.74	W840X473	
106-1772	IZ	196.9	69.8	62.1	67.6	73.2	3939.0	13.32	12.27	W40X264	D3
		10588.6	1772.0	303.0	330.2	357.4	537900.9	4.06	3.74	W1000X393	
106-1670	IZ	197.0	65.7	80.2	84.4	88.6	2756.7	12.2	11.22	W24X370	D2
		10589.2	1669.6	391.5	411.9	432.4	376445.0	3.72	3.42	W610X551	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
106-1693	IZ	197.3	66.6	73.0	77.1	81.3	2959.4	12.2	11.22	W27X336	D2
		10607.2	1692.6	356.5	376.6	396.8	404135.0	3.72	3.42	W690X500	
106-1917	IZ	197.5	75.5	116.6	120.3	123.9	2138.7	12.2	11.22	W14X665	D1
		10620.5	1917.0	569.4	587.3	605.1	292063.3	3.72	3.42	W360X990	
106-1871	IZ	197.7	73.7	56.3	60.1	63.8	3922.7	12.2	11.22	W40X277	D1
		10628.4	1871.0	275.1	293.3	311.6	535673.6	3.72	3.42	W1000X412	
106-1875	IZ	197.9	73.8	63.0	66.7	70.5	3478.0	12.2	11.22	W33X318	D1
		10637.1	1875.0	307.5	325.8	344.0	474947.3	3.72	3.42	W840X473	
107-1909	IZ	198.2	75.2	70.8	74.7	78.7	3012.4	12.2	11.22	W27X368	C2
		10657.2	1909.0	345.5	364.9	384.3	411367.1	3.72	3.42	W690X548	
107-1723	IZ	198.6	67.8	56.3	60.4	64.5	3909.4	12.2	11.22	W40X249	D2
		10677.4	1722.6	275.0	294.9	314.7	533868.9	3.72	3.42	W1000X371	
107-2083	IZ	199.6	82.0	53.5	58.5	63.5	4321.7	13.32	12.27	W44X262	C3
		10730.4	2083.4	261.0	285.5	309.9	590169.8	4.06	3.74	W1100X390	
107-1859	IZ	199.6	73.2	69.4	74.7	80.0	3234.1	13.32	12.27	W30X326	D3
		10732.5	1859.0	338.7	364.6	390.5	441642.1	4.06	3.74	W760X484	
108-2105	IZ	200.0	82.9	58.3	61.9	65.5	3707.9	12.2	11.22	W36X328	C1
		10750.5	2105.4	284.6	302.1	319.7	506346.5	3.72	3.42	W920X488	
108-1911	IZ	200.1	75.2	112.2	117.4	122.6	2091.1	13.32	12.27	W14X605	D3
		10755.6	1911.0	548.0	573.2	598.4	285561.2	4.06	3.74	W360X900	
108-1841	IZ	200.9	72.5	58.4	62.6	66.7	4033.8	12.2	11.22	W40X278	C2
		10801.0	1841.0	285.4	305.5	325.5	550851.2	3.72	3.42	W1000X415	
108-1765	IZ	201.4	69.5	116.7	120.6	124.6	2105.0	12.2	11.22	W14X605	D2
		10826.8	1764.6	569.7	589.0	608.4	287451.9	3.72	3.42	W360X900	
108-1960	IZ	201.4	77.2	58.3	62.2	66.1	3699.1	12.2	11.22	W36X300	C2
		10828.5	1960.0	284.9	303.7	322.6	505148.7	3.72	3.42	W920X446	
108-1727	IZ	201.6	68.0	63.7	67.7	71.8	3511.8	12.2	11.22	W33X291	D2
		10837.6	1726.6	310.8	330.6	350.4	479562.3	3.72	3.42	W840X433	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
108-1869	IZ	201.6	73.6	54.1	57.8	61.6	4365.1	12.2	11.22	W44X262	D1
		10838.1	1869.0	264.0	282.3	300.6	596098.1	3.72	3.42	W1100X390	
109-2131	IZ	201.7	83.9	109.7	114.6	119.5	2184.1	13.32	12.27	W14X665	C3
		10845.9	2131.4	535.8	559.7	583.6	298262.6	4.06	3.74	W360X990	
109-2076	IZ	201.9	81.7	67.5	72.5	77.5	3310.7	13.32	12.27	W30X357	C3
		10855.0	2076.4	329.6	354.1	378.6	452110.2	4.06	3.74	W760X531	
109-1745	IZ	202.7	68.7	61.1	65.1	69.1	3703.7	12.2	11.22	W36X280	D2
		10900.3	1744.6	298.1	317.7	337.3	505776.0	3.72	3.42	W920X417	
109-1862	IZ	202.9	73.3	69.7	73.5	77.2	3327.7	12.2	11.22	W30X357	D1
		10910.8	1862.0	340.5	358.8	377.2	454432.8	3.72	3.42	W760X531	
109-2137	IZ	203.0	84.1	114.4	118.0	121.5	2274.0	12.2	11.22	W14X730	C1
		10915.0	2137.4	558.7	576.0	593.3	310531.1	3.72	3.42	W360X1086	
109-1943	IZ	203.4	76.5	61.7	65.6	69.5	3576.3	12.2	11.22	W33X318	C2
		10937.8	1943.0	301.1	320.1	339.1	488371.6	3.72	3.42	W840X473	
109-1985	IZ	203.5	78.1	113.5	117.3	121.1	2203.3	12.2	11.22	W14X665	C2
		10941.1	1985.0	554.2	572.8	591.4	300880.1	3.72	3.42	W360X990	
110-1939	IZ	203.7	76.3	55.2	59.2	63.1	4042.5	12.2	11.22	W40X277	C2
		10953.0	1939.0	269.7	288.8	307.9	552033.7	3.72	3.42	W1000X412	
110-2092	IZ	204.2	82.4	62.5	66.1	69.7	3629.2	12.2	11.22	W33X354	C1
		10976.8	2092.4	305.1	322.8	340.4	495602.8	3.72	3.42	W840X527	
110-1773	IZ	205.2	69.8	64.6	70.1	75.7	4119.5	13.32	12.27	W40X278	D3
		11030.4	1773.0	315.2	342.4	369.6	562552.2	4.06	3.74	W1000X415	
111-2085	IZ	205.5	82.1	58.5	63.5	68.5	4093.6	13.32	12.27	W40X297	C3
		11047.7	2085.4	285.6	310.0	334.5	559014.0	4.06	3.74	W1000X443	
111-1626	IZ	206.0	64.0	62.4	66.7	71.0	4120.4	12.2	11.22	W40X264	D2
		11076.4	1625.6	304.5	325.5	346.5	562679.0	3.72	3.42	W1000X393	
111-2079	IZ	206.1	81.9	68.4	72.0	75.7	3420.4	12.2	11.22	W30X391	C1
		11081.4	2079.4	333.8	351.6	369.4	467082.8	3.72	3.42	W760X582	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
111-1841	IZ	206.5	72.5	77.1	82.5	87.8	3138.2	13.32	12.27	W27X368	D3
		11102.4	1841.0	376.5	402.7	428.8	428553.2	4.06	3.74	W690X548	
111-1713	IZ	206.5	67.4	70.3	74.4	78.4	3346.0	12.2	11.22	W30X326	D2
		11104.1	1712.6	343.1	363.1	383.0	456932.7	3.72	3.42	W760X484	
111-1892	IZ	207.0	74.5	64.1	69.3	74.5	3801.2	13.32	12.27	W36X300	D3
		11127.2	1892.0	312.8	338.3	363.7	519083.1	4.06	3.74	W920X446	
112-1937	IZ	208.0	76.3	53.1	57.0	60.9	4502.9	12.2	11.22	W44X262	C2
		11180.3	1937.0	259.1	278.2	297.2	614914.7	3.72	3.42	W1100X390	
112-1871	IZ	208.0	73.7	59.7	63.4	67.2	4142.9	12.2	11.22	W40X297	D1
		11180.8	1871.0	291.4	309.7	327.9	565748.1	3.72	3.42	W1000X443	
112-1871	IZ	208.2	73.7	60.9	66.2	71.5	4131.6	13.32	12.27	W40X277	D3
		11194.6	1871.0	297.5	323.2	348.9	564209.5	4.06	3.74	W1000X412	
112-1930	IZ	208.3	76.0	68.2	72.1	76.0	3415.9	12.2	11.22	W30X357	C2
		11199.8	1930.0	332.8	352.0	371.1	466472.3	3.72	3.42	W760X531	
112-2085	IZ	209.0	82.1	53.5	57.2	60.8	4558.4	12.2	11.22	W44X290	C1
		11236.3	2085.4	261.3	279.1	296.8	622492.0	3.72	3.42	W1100X433	
113-1875	IZ	209.7	73.8	67.6	72.8	78.1	3686.5	13.32	12.27	W33X318	D3
		11274.9	1875.0	329.9	355.6	381.3	503422.3	4.06	3.74	W840X473	
113-2105	IZ	210.0	82.9	62.4	67.3	72.3	3893.6	13.32	12.27	W36X328	C3
		11288.9	2105.4	304.5	328.7	352.9	531705.2	4.06	3.74	W920X488	
114-1991	IZ	211.1	78.4	61.4	65.2	69.0	4305.6	12.2	11.22	W40X327	C1
		11350.7	1991.4	299.7	318.3	336.8	587967.4	3.72	3.42	W1000X486	
114-1869	IZ	211.3	73.6	58.7	63.9	69.2	4574.3	13.32	12.27	W44X262	D3
		11357.5	1869.0	286.4	312.2	338.0	624664.5	4.06	3.74	W1100X390	
114-1891	IZ	212.6	74.4	64.0	67.7	71.4	3943.2	12.2	11.22	W36X328	D1
		11432.7	1891.0	312.4	330.5	348.5	538482.0	3.72	3.42	W920X488	
114-2087	IZ	212.7	82.2	58.3	61.9	65.5	4270.1	12.2	11.22	W40X324	C1
		11433.7	2087.4	284.4	302.1	319.8	583116.4	3.72	3.42	W1000X483	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
114-1992	IZ	212.8	78.4	62.2	66.0	69.8	4340.2	12.2	11.22	W40X331	C1
		11441.9	1992.4	303.5	322.0	340.6	592691.4	3.72	3.42	W1000X494	
115-1695	IZ	213.4	66.7	78.7	82.8	87.0	3243.1	12.2	11.22	W27X368	D2
		11473.5	1694.6	384.3	404.4	424.6	442875.4	3.72	3.42	W690X548	
115-1939	IZ	213.7	76.3	58.5	62.4	66.3	4257.4	12.2	11.22	W40X297	C2
		11489.7	1939.0	285.5	304.6	323.7	581381.0	3.72	3.42	W1000X443	
115-2092	IZ	214.7	82.4	66.6	71.6	76.6	3816.1	13.32	12.27	W33X354	C3
		11541.9	2092.4	325.2	349.5	373.9	521118.9	4.06	3.74	W840X527	
116-1627	IZ	215.0	64.0	65.1	69.4	73.7	4317.1	12.2	11.22	W40X278	D2
		11559.5	1626.6	317.8	338.8	359.8	589533.7	3.72	3.42	W1000X415	
116-1746	IZ	215.5	68.7	64.5	68.5	72.5	3958.6	12.2	11.22	W36X300	D2
		11588.0	1745.6	315.0	334.6	354.2	540579.6	3.72	3.42	W920X446	
116-1862	IZ	215.7	73.3	74.3	79.6	84.9	3537.7	13.32	12.27	W30X357	D3
		11599.2	1862.0	363.0	388.8	414.7	483106.6	4.06	3.74	W760X531	
116-2108	IZ	215.8	83.0	62.6	66.2	69.8	4035.0	12.2	11.22	W36X359	C1
		11600.3	2108.4	305.8	323.3	340.8	551013.8	3.72	3.42	W920X534	
116-1917	IZ	216.4	75.5	121.1	126.3	131.4	2342.7	13.32	12.27	W14X665	D3
		11633.3	1917.0	591.3	616.4	641.5	319914.4	4.06	3.74	W360X990	
117-1923	IZ	217.4	75.7	126.3	129.9	133.6	2434.9	12.2	11.22	W14X730	D1
		11687.4	1923.0	616.6	634.4	652.2	332505.6	3.72	3.42	W360X1086	
117-2079	IZ	217.4	81.9	72.5	77.5	82.5	3608.4	13.32	12.27	W30X391	C3
		11690.6	2079.4	354.0	378.5	403.0	492758.5	4.06	3.74	W760X582	
117-2085	IZ	217.6	82.1	57.6	62.7	67.7	4745.9	13.32	12.27	W44X290	C3
		11698.4	2085.4	281.5	305.9	330.3	648093.8	4.06	3.74	W1100X433	
117-1878	IZ	217.6	73.9	68.7	72.4	76.2	3868.4	12.2	11.22	W33X354	D1
		11700.1	1878.0	335.5	353.7	371.9	528261.7	3.72	3.42	W840X527	
117-1725	IZ	217.7	67.9	61.1	65.2	69.2	4319.0	12.2	11.22	W40X277	D2
		11702.4	1724.6	298.4	318.2	338.0	589798.5	3.72	3.42	W1000X412	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
117-1959	IZ	217.9	77.1	62.6	66.5	70.4	4040.8	12.2	11.22	W36X328	C2
		11715.6	1959.0	305.9	324.7	343.6	551803.0	3.72	3.42	W920X488	
117-1729	IZ	218.2	68.1	68.3	72.4	76.4	3835.7	12.2	11.22	W33X318	D2
		11731.3	1728.6	333.6	353.3	373.1	523803.8	3.72	3.42	W840X473	
117-2154	IZ	218.3	84.8	124.7	128.2	131.8	2492.0	12.2	11.22	W14X808	C1
		11734.7	2154.4	609.0	626.1	643.3	340306.5	3.72	3.42	W360X1202	
117-1871	IZ	218.5	73.7	64.3	69.5	74.8	4351.9	13.32	12.27	W40X297	D3
		11744.7	1871.0	313.8	339.6	365.3	594284.0	4.06	3.74	W1000X443	
118-2137	IZ	219.3	84.1	118.5	123.3	128.2	2456.9	13.32	12.27	W14X730	C3
		11793.0	2137.4	578.3	602.2	626.0	335510.0	4.06	3.74	W360X1086	
118-1771	IZ	219.6	69.7	126.3	130.2	134.2	2377.3	12.2	11.22	W14X665	D2
		11805.1	1770.6	616.5	635.8	655.1	324639.1	3.72	3.42	W360X990	
118-1865	IZ	220.2	73.4	75.3	79.1	82.8	3654.2	12.2	11.22	W30X391	D1
		11839.0	1865.0	367.7	386.0	404.3	499012.5	3.72	3.42	W760X582	
119-2094	IZ	220.6	82.5	67.3	70.9	74.5	3965.0	12.2	11.22	W33X387	C1
		11861.1	2094.4	328.4	346.1	363.7	541460.3	3.72	3.42	W840X576	
119-1991	IZ	220.8	78.4	65.7	70.9	76.2	4501.9	13.32	12.27	W40X327	C3
		11868.3	1991.4	320.8	346.3	371.9	614777.7	4.06	3.74	W1000X486	
119-1871	IZ	221.6	73.7	58.7	62.5	66.2	4832.3	12.2	11.22	W44X290	D1
		11911.5	1871.0	286.8	305.1	323.3	659899.3	3.72	3.42	W1100X433	
119-1723	IZ	221.7	67.8	58.7	62.7	66.8	4799.6	12.2	11.22	W44X262	D2
		11916.8	1722.6	286.4	306.3	326.1	655421.3	3.72	3.42	W1100X390	
119-2087	IZ	222.0	82.2	62.4	67.4	72.4	4457.4	13.32	12.27	W40X324	C3
		11935.2	2087.4	304.5	328.9	353.3	608693.6	4.06	3.74	W1000X483	
120-1992	IZ	222.4	78.4	66.5	71.7	76.9	4536.4	13.32	12.27	W40X331	C3
		11959.2	1992.4	324.5	350.1	375.7	619488.2	4.06	3.74	W1000X494	
120-1946	IZ	222.7	76.6	67.2	71.1	75.0	3958.4	12.2	11.22	W33X354	C2
		11972.4	1946.0	328.1	347.1	366.1	540554.6	3.72	3.42	W840X527	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
120-1991	IZ	222.8	78.4	122.8	126.7	130.5	2496.1	12.2	11.22	W14X730	C2
		11981.0	1991.0	599.8	618.4	636.9	340858.4	3.72	3.42	W360X1086	
120-1891	IZ	223.8	74.4	68.5	73.7	79.0	4150.0	13.32	12.27	W36X328	D3
		12032.2	1891.0	334.6	360.1	385.5	566716.1	4.06	3.74	W920X488	
121-1716	IZ	224.1	67.5	75.7	79.8	83.8	3675.4	12.2	11.22	W30X357	D2
		12050.6	1715.6	369.5	389.4	409.3	501908.9	3.72	3.42	W760X531	
121-1777	IZ	224.9	70.0	67.8	71.8	75.7	4586.7	12.2	11.22	W40X327	D1
		12091.8	1777.0	331.1	350.4	369.6	626356.9	3.72	3.42	W1000X486	
121-1933	IZ	225.1	76.1	73.6	77.5	81.4	3735.9	12.2	11.22	W30X391	C2
		12103.8	1933.0	359.1	378.2	397.4	510176.9	3.72	3.42	W760X582	
121-2108	IZ	225.7	83.0	66.7	71.7	76.6	4220.4	13.32	12.27	W36X359	C3
		12133.4	2108.4	325.7	349.8	374.0	576336.3	4.06	3.74	W920X534	
122-1873	IZ	226.3	73.7	64.0	67.7	71.5	4543.1	12.2	11.22	W40X324	D1
		12164.8	1873.0	312.5	330.7	349.0	620403.8	3.72	3.42	W1000X483	
122-1778	IZ	226.8	70.0	68.7	72.6	76.6	4625.4	12.2	11.22	W40X331	D1
		12193.8	1778.0	335.4	354.6	373.8	631636.3	3.72	3.42	W1000X494	
122-1939	IZ	227.4	76.3	57.6	61.5	65.4	4958.9	12.2	11.22	W44X290	C2
		12223.6	1939.0	281.1	300.1	319.2	677186.6	3.72	3.42	W1100X433	
123-1725	IZ	228.8	67.9	64.8	68.8	72.9	4557.9	12.2	11.22	W40X297	D2
		12300.9	1724.6	316.2	336.0	355.8	622426.0	3.72	3.42	W1000X443	
123-1878	IZ	229.3	73.9	73.3	78.5	83.8	4076.6	13.32	12.27	W33X354	D3
		12329.8	1878.0	357.8	383.4	409.1	556691.2	4.06	3.74	W840X527	
124-1894	IZ	230.1	74.6	68.8	72.5	76.2	4302.2	12.2	11.22	W36X359	D1
		12368.5	1894.0	336.0	354.0	372.0	587503.9	3.72	3.42	W920X534	
124-1845	IZ	230.8	72.6	66.3	70.4	74.5	4706.5	12.2	11.22	W40X327	C2
		12407.5	1845.0	323.5	343.5	363.5	642709.1	3.72	3.42	W1000X486	
124-2094	IZ	231.0	82.5	71.4	76.4	81.3	4151.7	13.32	12.27	W33X387	C3
		12419.5	2094.4	348.5	372.8	397.1	566952.1	4.06	3.74	W840X576	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
124-1871	IZ	231.1	73.7	63.3	68.6	73.9	5041.3	13.32	12.27	W44X290	D3
		12426.6	1871.0	309.2	335.0	360.7	688435.2	4.06	3.74	W1100X433	
125-1941	IZ	231.5	76.4	62.6	66.5	70.4	4648.4	12.2	11.22	W40X324	C2
		12446.8	1941.0	305.9	324.9	343.9	634784.7	3.72	3.42	W1000X483	
125-1846	IZ	232.6	72.7	67.1	71.2	75.3	4743.6	12.2	11.22	W40X331	C2
		12505.4	1846.0	327.6	347.6	367.6	647778.1	3.72	3.42	W1000X494	
125-2088	IZ	232.7	82.2	59.7	63.3	66.9	5121.6	12.2	11.22	W44X335	C1
		12511.7	2088.4	291.4	309.1	326.8	699403.2	3.72	3.42	W1100X499	
125-1865	IZ	232.8	73.4	79.9	85.2	90.5	3863.8	13.32	12.27	W30X391	D3
		12518.2	1865.0	390.2	416.0	441.8	527640.2	4.06	3.74	W760X582	
125-2090	IZ	233.2	82.3	63.7	67.3	70.9	4727.4	12.2	11.22	W40X362	C1
		12535.3	2090.4	311.0	328.7	346.4	645566.0	3.72	3.42	W1000X539	
126-1745	IZ	233.9	68.7	69.4	73.4	77.4	4336.8	12.2	11.22	W36X328	D2
		12573.7	1744.6	338.6	358.2	377.8	592222.1	3.72	3.42	W920X488	
126-2110	IZ	233.9	83.1	67.6	71.2	74.8	4420.3	12.2	11.22	W36X393	C1
		12575.6	2110.4	330.0	347.6	365.1	603628.1	3.72	3.42	W920X585	
126-1940	IZ	234.0	76.4	137.6	141.2	144.8	2671.6	12.2	11.22	W14X808	D1
		12580.2	1940.0	671.9	689.5	707.2	364826.3	3.72	3.42	W360X1202	
126-2154	IZ	234.2	84.8	128.7	133.6	138.4	2673.5	13.32	12.27	W14X808	C3
		12589.3	2154.4	628.4	652.1	675.7	365088.4	4.06	3.74	W360X1202	
126-1962	IZ	234.8	77.2	67.3	71.2	75.0	4391.8	12.2	11.22	W36X359	C2
		12626.0	1962.0	328.6	347.4	366.3	599733.7	3.72	3.42	W920X534	
127-1923	IZ	235.5	75.7	130.8	135.9	141.0	2638.2	13.32	12.27	W14X730	D3
		12663.3	1923.0	638.5	663.5	688.5	360269.8	4.06	3.74	W360X1086	
127-1777	IZ	235.7	70.0	72.7	78.2	83.8	4806.7	13.32	12.27	W40X327	D3
		12671.9	1777.0	354.7	381.8	408.9	656402.3	4.06	3.74	W1000X486	
127-1880	IZ	235.7	74.0	74.0	77.7	81.5	4236.6	12.2	11.22	W33X387	D1
		12673.5	1880.0	361.4	379.6	397.8	578543.4	3.72	3.42	W840X576	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
127-1873	IZ	236.7	73.7	68.6	73.9	79.1	4751.9	13.32	12.27	W40X324	D3
		12723.7	1873.0	334.9	360.6	386.3	648909.2	4.06	3.74	W1000X483	
128-1778	IZ	237.6	70.0	73.5	79.1	84.6	4845.3	13.32	12.27	W40X331	D3
		12773.5	1778.0	358.9	386.0	413.1	661664.8	4.06	3.74	W1000X494	
128-2091	IZ	237.8	82.3	65.1	68.8	72.4	4831.8	12.2	11.22	W40X372	C1
		12787.3	2091.4	318.0	335.7	353.4	659822.5	3.72	3.42	W1000X554	
129-2008	IZ	238.9	79.1	133.8	137.6	141.4	2728.1	12.2	11.22	W14X808	C2
		12846.5	2008.0	653.4	671.8	690.2	372548.0	3.72	3.42	W360X1202	
129-1732	IZ	239.6	68.2	74.5	78.6	82.6	4258.5	12.2	11.22	W33X354	D2
		12880.2	1731.6	363.8	383.6	403.3	581541.1	3.72	3.42	W840X527	
129-1948	IZ	240.3	76.7	72.3	76.2	80.1	4319.1	12.2	11.22	W33X387	C2
		12920.3	1948.0	353.1	372.1	391.1	589812.4	3.72	3.42	W840X576	
130-1777	IZ	240.8	69.9	136.7	140.6	144.6	2697.0	12.2	11.22	W14X730	D2
		12945.7	1776.6	667.5	686.7	705.9	368304.1	3.72	3.42	W360X1086	
130-1894	IZ	241.1	74.6	73.3	78.6	83.8	4508.6	13.32	12.27	W36X359	D3
		12962.0	1894.0	358.1	383.5	408.9	615693.2	4.06	3.74	W920X534	
130-2088	IZ	241.2	82.2	63.8	68.8	73.8	5308.8	13.32	12.27	W44X335	C3
		12969.0	2088.4	311.5	335.9	360.3	724968.2	4.06	3.74	W1100X499	
130-2090	IZ	242.4	82.3	67.8	72.8	77.8	4914.4	13.32	12.27	W40X362	C3
		13031.2	2090.4	331.1	355.5	379.8	671106.6	4.06	3.74	W1000X539	
131-1719	IZ	242.8	67.7	81.7	85.8	89.9	4029.1	12.2	11.22	W30X391	D2
		13053.5	1718.6	399.0	418.9	438.8	550203.4	3.72	3.42	W760X582	
131-1725	IZ	243.3	67.9	63.7	67.8	71.8	5305.9	12.2	11.22	W44X290	D2
		13078.9	1724.6	311.1	331.0	350.8	724569.8	3.72	3.42	W1100X433	
131-2110	IZ	243.7	83.1	71.7	76.6	81.6	4605.5	13.32	12.27	W36X393	C3
		13102.6	2110.4	349.9	374.1	398.2	628926.7	4.06	3.74	W920X585	
133-2091	IZ	247.0	82.3	69.2	74.2	79.2	5018.7	13.32	12.27	W40X372	C3
		13282.0	2091.4	338.1	362.4	386.8	685350.8	4.06	3.74	W1000X554	

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
133-1880	IZ	247.3	74.0	78.6	83.8	89.1	4444.5	13.32	12.27	W33X387	D3
		13295.6	1880.0	383.7	409.3	435.0	606942.7	4.06	3.74	W840X576	
133-1874	IZ	247.8	73.8	65.6	69.3	73.1	5452.6	12.2	11.22	W44X335	D1
		13320.3	1874.0	320.3	338.5	356.7	744607.3	3.72	3.42	W1100X499	
133-1997	IZ	247.9	78.6	71.3	75.1	78.8	5153.0	12.2	11.22	W40X392	C1
		13327.5	1997.4	347.9	366.4	384.9	703694.6	3.72	3.42	W1000X584	
134-1631	IZ	248.4	64.2	73.9	78.2	82.5	5065.5	12.2	11.22	W40X327	D2
		13354.1	1630.6	360.9	381.8	402.8	691743.9	3.72	3.42	W1000X486	
134-1727	IZ	248.6	68.0	69.4	73.5	77.5	4991.6	12.2	11.22	W40X324	D2
		13365.7	1726.6	339.0	358.8	378.5	681650.4	3.72	3.42	W1000X483	
134-1876	IZ	248.9	73.9	70.1	73.8	77.5	5045.8	12.2	11.22	W40X362	D1
		13379.5	1876.0	342.1	360.3	378.5	689045.5	3.72	3.42	W1000X539	
134-1896	IZ	250.0	74.6	74.3	78.0	81.7	4724.9	12.2	11.22	W36X393	D1
		13442.3	1896.0	362.9	380.9	399.0	645228.1	3.72	3.42	W920X585	
135-1632	IZ	250.4	64.2	74.8	79.1	83.4	5107.4	12.2	11.22	W40X331	D2
		13464.4	1631.6	365.4	386.4	407.3	697456.9	3.72	3.42	W1000X494	
135-1940	IZ	251.6	76.4	142.1	147.1	152.2	2873.1	13.32	12.27	W14X808	D3
		13529.2	1940.0	693.6	718.4	743.2	392347.2	4.06	3.74	W360X1202	
136-1748	IZ	252.7	68.8	74.6	78.6	82.6	4725.1	12.2	11.22	W36X359	D2
		13584.4	1747.6	364.1	383.6	403.2	645258.4	3.72	3.42	W920X534	
136-1942	IZ	252.8	76.5	64.2	68.1	72.0	5564.0	12.2	11.22	W44X335	C2
		13592.3	1942.0	313.4	332.4	351.4	759811.4	3.72	3.42	W1100X499	
136-2092	IZ	253.3	82.4	68.7	72.3	76.0	5185.9	12.2	11.22	W40X397	C1
		13619.0	2092.4	335.5	353.2	370.8	708185.6	3.72	3.42	W1000X591	
136-1944	IZ	253.5	76.5	68.5	72.4	76.3	5139.6	12.2	11.22	W40X362	C2
		13628.3	1944.0	334.5	353.5	372.5	701857.6	3.72	3.42	W1000X539	
137-2070	IZ	253.9	81.5	90.2	93.8	97.5	4127.8	12.2	11.22	W27X539	C1
		13648.7	2070.4	440.3	458.2	476.0	563692.2	3.72	3.42	W690X802	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
137-1877	IZ	254.0	73.9	71.7	75.4	79.1	5160.6	12.2	11.22	W40X372	D1
		13657.6	1877.0	349.9	368.1	386.3	704730.4	3.72	3.42	W1000X554	
137-1964	IZ	254.3	77.3	72.6	76.5	80.3	4805.4	12.2	11.22	W36X393	C2
		13671.3	1964.0	354.6	373.5	392.3	656220.4	3.72	3.42	W920X585	
138-1874	IZ	257.2	73.8	70.2	75.4	80.7	5661.3	13.32	12.27	W44X335	D3
		13830.0	1874.0	342.7	368.3	394.0	773097.5	4.06	3.74	W1100X499	
138-1997	IZ	257.3	78.6	75.6	80.8	86.0	5348.8	13.32	12.27	W40X392	C3
		13833.8	1997.4	368.9	394.4	419.9	730424.3	4.06	3.74	W1000X584	
139-2114	IZ	258.2	83.2	74.0	77.6	81.2	4940.4	12.2	11.22	W36X439	C1
		13881.8	2114.4	361.3	378.8	396.3	674656.2	3.72	3.42	W920X653	
139-1794	IZ	258.4	70.6	148.9	152.8	156.7	2950.5	12.2	11.22	W14X808	D2
		13893.9	1793.6	726.8	745.8	764.9	402923.7	3.72	3.42	W360X1202	
139-1945	IZ	258.5	76.6	70.0	73.9	77.8	5251.6	12.2	11.22	W40X372	C2
		13898.4	1945.0	342.0	361.0	380.0	717158.2	3.72	3.42	W1000X554	
139-1876	IZ	259.1	73.9	74.6	79.9	85.2	5254.2	13.32	12.27	W40X362	D3
		13932.1	1876.0	364.5	390.1	415.8	717505.3	4.06	3.74	W1000X539	
139-1734	IZ	259.1	68.3	80.3	84.3	88.3	4657.4	12.2	11.22	W33X387	D2
		13932.3	1733.6	391.9	411.7	431.4	636007.7	3.72	3.42	W840X576	
140-1896	IZ	260.9	74.6	78.9	84.1	89.3	4931.1	13.32	12.27	W36X393	D3
		14028.9	1896.0	385.1	410.4	435.8	673387.7	4.06	3.74	W920X585	
141-2092	IZ	262.4	82.4	72.8	77.8	82.8	5372.8	13.32	12.27	W40X397	C3
		14109.6	2092.4	355.5	379.9	404.2	733701.7	4.06	3.74	W1000X591	
142-1877	IZ	264.3	73.9	76.2	81.5	86.7	5368.9	13.32	12.27	W40X372	D3
		14208.8	1877.0	372.2	397.9	423.5	733175.1	4.06	3.74	W1000X554	
143-2070	IZ	265.5	81.5	94.3	99.4	104.4	4316.7	13.32	12.27	W27X539	C3
		14273.1	2070.4	460.6	485.2	509.8	589479.5	4.06	3.74	W690X802	
143-1783	IZ	265.6	70.2	78.9	82.8	86.7	5521.3	12.2	11.22	W40X392	D1
		14280.0	1783.0	385.0	404.2	423.4	753984.8	3.72	3.42	W1000X584	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
144-2114	IZ	267.9	83.2	78.1	83.0	87.9	5125.3	13.32	12.27	W36X439	C3
		14401.4	2114.4	381.2	405.3	429.4	699906.9	4.06	3.74	W920X653	
145-1851	IZ	270.3	72.9	76.9	81.0	85.1	5619.6	12.2	11.22	W40X392	C2
		14534.3	1851.0	375.4	395.4	415.4	767412.0	3.72	3.42	W1000X584	
146-1878	IZ	271.1	73.9	75.6	79.4	83.1	5549.9	12.2	11.22	W40X397	D1
		14574.9	1878.0	369.3	387.5	405.7	757893.8	3.72	3.42	W1000X591	
146-1728	IZ	271.6	68.0	71.2	75.2	79.3	5978.0	12.2	11.22	W44X335	D2
		14603.6	1727.6	347.4	367.2	387.0	816343.9	3.72	3.42	W1100X499	
146-2095	IZ	271.7	82.5	73.6	77.2	80.8	5604.4	12.2	11.22	W40X431	C1
		14605.6	2095.4	359.4	377.0	394.7	765331.9	3.72	3.42	W1000X642	
147-1856	IZ	273.0	73.1	99.7	103.4	107.2	4439.3	12.2	11.22	W27X539	D1
		14678.7	1856.0	486.6	505.0	523.5	606231.1	3.72	3.42	W690X802	
147-1730	IZ	273.0	68.1	76.0	80.0	84.1	5536.0	12.2	11.22	W40X362	D2
		14679.5	1729.6	371.1	390.8	410.6	755996.1	3.72	3.42	W1000X539	
147-1750	IZ	274.3	68.9	80.6	84.6	88.6	5182.7	12.2	11.22	W36X393	D2
		14744.7	1749.6	393.3	412.8	432.3	707746.8	3.72	3.42	W920X585	
148-1946	IZ	275.1	76.6	73.9	77.8	81.7	5632.2	12.2	11.22	W40X397	C2
		14791.0	1946.0	360.7	379.7	398.7	769130.3	3.72	3.42	W1000X591	
149-1783	IZ	276.2	70.2	83.7	89.2	94.7	5740.6	13.32	12.27	W40X392	D3
		14847.1	1783.0	408.6	435.6	462.6	783929.0	4.06	3.74	W1000X584	
149-1924	IZ	276.7	75.7	97.0	101.0	104.9	4498.7	12.2	11.22	W27X539	C2
		14875.0	1924.0	473.8	493.0	512.2	614339.1	3.72	3.42	W690X802	
149-1900	IZ	276.8	74.8	81.5	85.1	88.8	5295.8	12.2	11.22	W36X439	D1
		14880.4	1900.0	397.7	415.7	433.7	723189.7	3.72	3.42	W920X653	
150-1731	IZ	278.6	68.1	77.7	81.8	85.8	5660.3	12.2	11.22	W40X372	D2
		14980.0	1730.6	379.5	399.2	419.0	772969.2	3.72	3.42	W1000X554	
151-1968	IZ	280.3	77.5	79.5	83.4	87.2	5363.4	12.2	11.22	W36X439	C2
		15070.5	1968.0	388.2	407.0	425.8	732425.4	3.72	3.42	W920X653	

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				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
151-2095	IZ	280.7	82.5	77.7	82.7	87.7	5791.0	13.32	12.27	W40X431	C3
		15091.8	2095.4	379.4	403.7	428.0	790811.5	4.06	3.74	W1000X642	
151-1878	IZ	281.3	73.9	80.2	85.5	90.7	5758.1	13.32	12.27	W40X397	D3
		15121.6	1878.0	391.7	417.3	442.9	786323.3	4.06	3.74	W1000X591	
154-1856	IZ	286.0	73.1	104.3	109.6	114.9	4650.0	13.32	12.27	W27X539	D3
		15375.2	1856.0	509.2	535.2	561.1	634997.6	4.06	3.74	W690X802	
155-1900	IZ	287.5	74.8	86.0	91.2	96.4	5501.6	13.32	12.27	W36X439	D3
		15458.6	1900.0	419.8	445.1	470.5	751290.1	4.06	3.74	W920X653	
157-1881	IZ	291.3	74.1	81.1	84.8	88.5	6010.3	12.2	11.22	W40X431	D1
		15663.3	1881.0	395.9	414.0	432.2	820758.4	3.72	3.42	W1000X642	
157-1637	IZ	292.6	64.4	85.9	90.2	94.5	6082.0	12.2	11.22	W40X392	D2
		15730.1	1636.6	419.5	440.4	461.2	830549.0	3.72	3.42	W1000X584	
159-1949	IZ	294.8	76.7	79.1	83.0	86.9	6081.4	12.2	11.22	W40X431	C2
		15848.8	1949.0	386.4	405.3	424.3	830475.3	3.72	3.42	W1000X642	
160-1732	IZ	297.1	68.2	82.0	86.1	90.1	6082.3	12.2	11.22	W40X397	D2
		15972.8	1731.6	400.6	420.3	440.0	830588.0	3.72	3.42	W1000X591	
162-1710	IZ	300.3	67.3	108.2	112.3	116.4	4883.4	12.2	11.22	W27X539	D2
		16147.0	1709.6	528.3	548.3	568.3	666873.1	3.72	3.42	W690X802	
162-1881	IZ	301.4	74.1	85.6	90.9	96.1	6218.1	13.32	12.27	W40X431	D3
		16205.0	1881.0	418.2	443.8	469.4	849142.6	4.06	3.74	W1000X642	
163-1754	IZ	303.1	69.0	88.3	92.2	96.2	5800.2	12.2	11.22	W36X439	D2
		16297.8	1753.6	430.9	450.4	469.9	792074.6	3.72	3.42	W920X653	
164-2120	IZ	305.0	83.5	86.4	90.0	93.5	5980.7	12.2	11.22	W36X527	C1
		16400.1	2120.4	421.8	439.2	456.6	816723.9	3.72	3.42	W920X784	
168-2100	IZ	313.2	82.7	83.9	87.5	91.1	6583.8	12.2	11.22	W40X503	C1
		16836.6	2100.4	409.7	427.3	444.9	899072.0	3.72	3.42	W1000X748	
169-2120	IZ	314.4	83.5	90.4	95.4	100.3	6165.1	13.32	12.27	W36X527	C3
		16905.7	2120.4	441.6	465.6	489.6	841903.1	4.06	3.74	W920X784	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
172-1735	IZ	319.0	68.3	87.9	92.0	96.0	6580.6	12.2	11.22	W40X431	D2
		17149.5	1734.6	429.3	449.0	468.7	898632.7	3.72	3.42	W1000X642	
173-2100	IZ	322.0	82.7	88.0	93.0	97.9	6769.9	13.32	12.27	W40X503	C3
		17312.6	2100.4	429.7	453.9	478.2	924490.9	4.06	3.74	W1000X748	
177-1906	IZ	328.3	75.0	95.2	98.9	102.5	6437.4	12.2	11.22	W36X527	D1
		17652.2	1906.0	464.8	482.7	500.7	879080.3	3.72	3.42	W920X784	
178-1974	IZ	330.5	77.7	92.8	96.6	100.5	6479.7	12.2	11.22	W36X527	C2
		17768.1	1974.0	453.1	471.8	490.5	884853.8	3.72	3.42	W920X784	
181-1886	IZ	337.1	74.3	92.5	96.3	100.0	7086.5	12.2	11.22	W40X503	D1
		18122.2	1886.0	451.8	470.0	488.1	967727.7	3.72	3.42	W1000X748	
182-1906	IZ	338.8	75.0	99.7	104.9	110.1	6642.5	13.32	12.27	W36X527	D3
		18214.7	1906.0	486.8	512.1	537.3	907092.2	4.06	3.74	W920X784	
182-1954	IZ	339.3	76.9	90.2	94.1	98.0	7133.0	12.2	11.22	W40X503	C2
		18241.0	1954.0	440.4	459.3	478.2	974069.0	3.72	3.42	W1000X748	
187-1886	IZ	346.9	74.3	97.1	102.3	107.6	7293.8	13.32	12.27	W40X503	D3
		18652.4	1886.0	474.1	499.6	525.1	996036.6	4.06	3.74	W1000X748	
193-1760	IZ	358.8	69.3	103.1	107.1	111.1	7035.1	12.2	11.22	W36X527	D2
		19291.2	1759.6	503.5	522.9	542.3	960700.6	3.72	3.42	W920X784	
197-2107	IZ	366.0	83.0	97.0	100.6	104.2	7867.7	12.2	11.22	W40X593	C1
		19677.8	2107.4	473.5	491.1	508.6	1074408.6	3.72	3.42	W1000X883	
198-1740	IZ	368.4	68.5	100.3	104.4	108.4	7745.7	12.2	11.22	W40X503	D2
		19808.0	1739.6	489.9	509.5	529.1	1057746.8	3.72	3.42	W1000X748	
199-2129	IZ	370.3	83.8	103.5	107.1	110.6	7493.5	12.2	11.22	W36X650	C1
		19908.7	2129.4	505.5	522.9	540.2	1023307.3	3.72	3.42	W920X967	
201-2107	IZ	374.6	83.0	101.1	106.0	111.0	8053.3	13.32	12.27	W40X593	C3
		20141.8	2107.4	493.4	517.6	541.8	1099743.2	4.06	3.74	W1000X883	
204-2129	IZ	379.4	83.8	107.6	112.5	117.4	7677.1	13.32	12.27	W36X650	C3
		20396.5	2129.4	525.2	549.1	573.1	1048380.1	4.06	3.74	W920X967	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ Pile.

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Section	Solution Type	Section Modulus	Width	Weight at Ratio			Moment of Inertia	Coating Area		Diameter	Configuration
				60%	80%	100%		Front	Front & Back		
		in^3/ft (cm^3/m)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	in (mm)	
213-1893	IZ	395.3	74.5	107.1	110.8	114.5	8497.8	12.2	11.22	W40X593	D1
		21253.8	1893.0	522.7	540.8	558.8	1160455.4	3.72	3.42	W1000X883	
213-1961	IZ	395.9	77.2	104.2	108.1	112.0	8510.8	12.2	11.22	W40X593	C2
		21286.2	1961.0	508.9	527.7	546.6	1162227.8	3.72	3.42	W1000X883	
215-1915	IZ	400.1	75.4	114.2	117.9	121.5	8097.2	12.2	11.22	W36X650	D1
		21512.5	1915.0	557.7	575.6	593.4	1105742.3	3.72	3.42	W920X967	
215-1983	IZ	400.4	78.1	111.2	115.0	118.8	8101.9	12.2	11.22	W36X650	C2
		21524.9	1983.0	542.8	561.5	580.1	1106379.5	3.72	3.42	W920X967	
218-1893	IZ	404.9	74.5	111.6	116.8	122.0	8704.4	13.32	12.27	W40X593	D3
		21770.3	1893.0	544.9	570.3	595.8	1188659.7	4.06	3.74	W1000X883	
221-1915	IZ	410.2	75.4	118.7	123.9	129.0	8301.3	13.32	12.27	W36X650	D3
		22054.9	1915.0	579.6	604.8	629.9	1133622.5	4.06	3.74	W920X967	
232-1747	IZ	431.4	68.8	116.0	120.0	124.1	9272.7	12.2	11.22	W40X593	D2
		23191.7	1746.6	566.6	586.1	605.7	1266268.4	3.72	3.42	W1000X883	
235-1769	IZ	436.3	69.6	123.7	127.6	131.6	8829.2	12.2	11.22	W36X650	D2
		23457.4	1768.6	603.9	623.2	642.5	1205709.9	3.72	3.42	W920X967	
243-2140	IZ	451.3	84.3	124.0	127.6	131.1	9469.8	12.2	11.22	W36X798	C1
		24262.4	2140.4	605.6	622.9	640.1	1293185.1	3.72	3.42	W920X1188	
247-2140	IZ	460.0	84.3	128.1	132.9	137.8	9652.5	13.32	12.27	W36X798	C3
		24730.4	2140.4	625.2	649.0	672.8	1318129.0	4.06	3.74	W920X1188	
262-1994	IZ	487.0	78.5	133.1	136.9	140.7	10219.9	12.2	11.22	W36X798	C2
		26184.1	1994.0	650.1	668.6	687.1	1395613.5	3.72	3.42	W920X1188	
263-1926	IZ	489.2	75.8	137.0	140.6	144.2	10265.2	12.2	11.22	W36X798	D1
		26300.2	1926.0	668.7	686.4	704.1	1401800.0	3.72	3.42	W920X1188	
268-1926	IZ	498.9	75.8	141.4	146.5	151.7	10468.2	13.32	12.27	W36X798	D3
		26820.3	1926.0	690.4	715.4	740.4	1429521.0	4.06	3.74	W920X1188	
286-1780	IZ	532.4	70.1	148.2	152.2	156.1	11171.0	12.2	11.22	W36X798	D2
		28621.1	1779.6	723.7	742.9	762.1	1525505.5	3.72	3.42	W920X1188	

* Length of the intermediate section as percent of the outer section length(s), intermediate sheet pile length is typically 60% to 80% of the length of the outer sections or IZ Pile.

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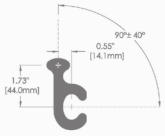
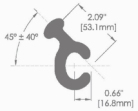
PilePro® Sheet Pile Connectors



PZ 90



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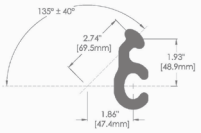

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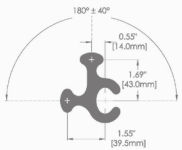

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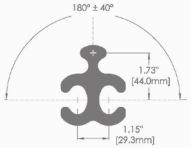
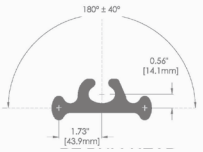
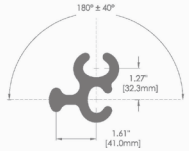


Joker



Bullhead



PZT-S

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

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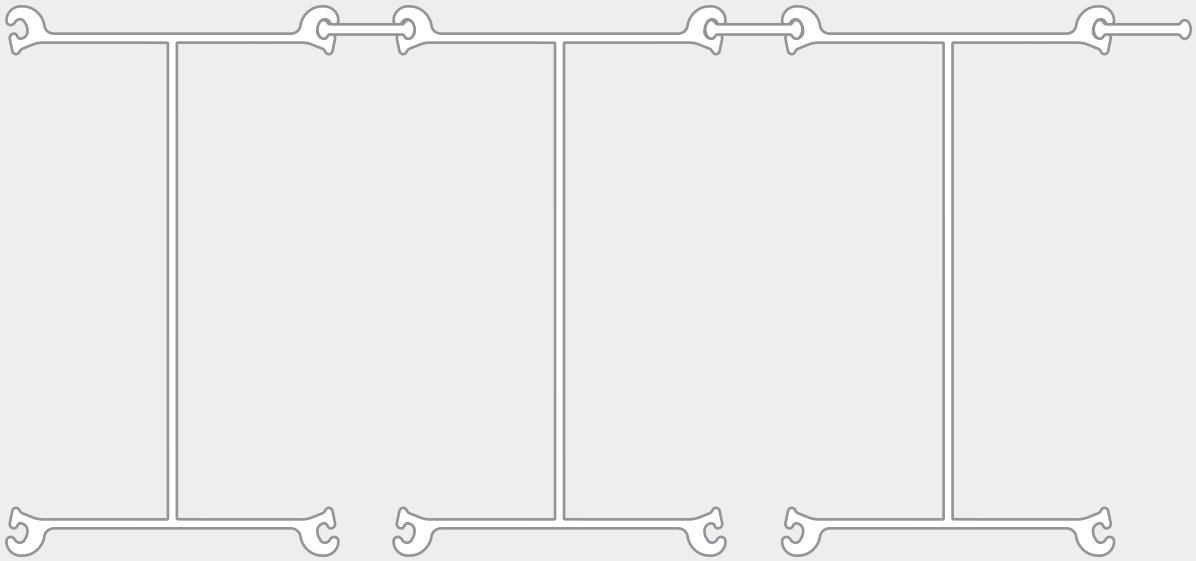
Configuration A



SECTION NAME:
210 - 623

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible I-Pile solutions.
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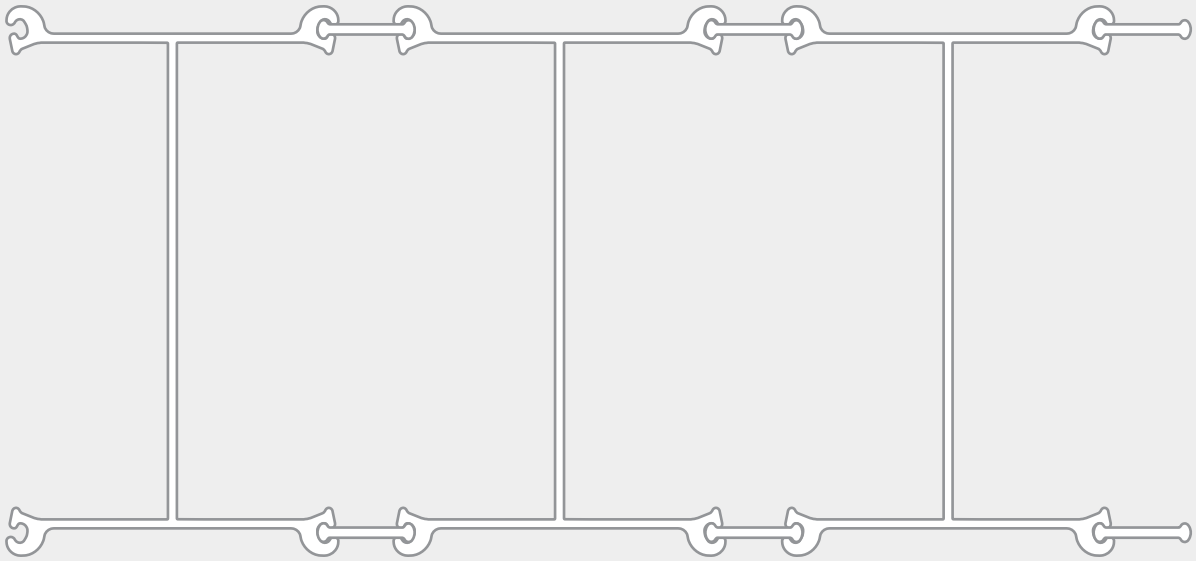
Configuration B



SECTION NAME:

223 - 623

Section width in mm

Section modulus (elastic) in $cm^3/m \div 100$

These are examples from a large variety of possible I-Pile solutions.
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Section	Solution Type	Section Modulus	Width	Depth	Weight by Ratio			Moment of Inertia	Coating Area		Configuration
					60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
45-688	I	84.6	27.1	19.7	43.9	49.4	54.8	851.3	3.12	14.34	C1
		4548.1	688.0	500.0	214.2	241.0	267.8	116248.4	0.95	4.37	
47-688	I	88.1	27.1	19.7	46.3	52.1	57.8	866.7	3.12	14.9	D1
		4734.1	688.0	500.0	225.9	254.1	282.4	118351.7	0.95	4.54	
65-623	I	120.2	24.5	19.7	48.4	54.4	60.4	1064.4	2.36	10.27	A1
		6460.4	623.0	500.0	236.1	265.6	295.1	145359.1	0.72	3.13	
79-623	I	146.7	24.5	19.7	52.7	59.3	65.9	1189.5	2.36	11.32	B1
		7885.5	623.0	500.0	257.4	289.6	321.8	162440.5	0.72	3.45	
103-688	I	191.0	27.1	34.6	51.0	57.4	63.7	3412.5	3.12	16.83	C2
		10271.3	688.0	880.0	248.9	280.0	311.1	466010.8	0.95	5.13	
110-688	I	204.1	27.1	34.6	53.4	60.0	66.7	3535.0	3.12	17.39	D2
		10971.4	688.0	880.0	260.6	293.2	325.7	482739.4	0.95	5.3	
131-623	I	243.3	24.5	34.6	56.2	63.2	70.2	4090.8	2.36	12.76	A2
		13082.8	623.0	880.0	274.4	308.7	343.0	558636.2	0.72	3.89	
137-688	I	254.6	27.1	42.5	54.7	61.6	68.4	5582.5	3.12	18.14	C3
		13686.6	688.0	1080.0	267.2	300.6	334.0	762342.9	0.95	5.53	
147-688	I	272.9	27.1	42.5	57.1	64.2	71.4	5802.1	3.12	18.7	D3
		14672.7	688.0	1080.0	278.8	313.7	348.5	792325.6	0.95	5.7	
155-688	I	287.9	27.1	46.5	56.6	63.7	70.7	6898.3	3.12	18.8	C4
		15475.9	688.0	1180.0	276.3	310.8	345.4	942018.9	0.95	5.73	
156-623	I	290.6	24.5	34.6	60.6	68.1	75.7	4530.0	2.36	13.81	B2
		15621.4	623.0	880.0	295.7	332.7	369.6	618605.8	0.72	4.21	
166-688	I	309.0	27.1	46.5	59.0	66.4	73.7	7176.8	3.12	19.36	D4
		16611.1	688.0	1180.0	288.0	324.0	360.0	980055.9	0.95	5.9	
169-623	I	314.5	24.5	42.5	60.3	67.9	75.4	6588.0	2.36	14.07	A3
		16910.8	623.0	1080.0	294.5	331.4	368.2	899653.2	0.72	4.29	
173-688	I	322.3	27.1	50.4	58.5	65.8	73.1	8374.9	3.12	19.46	C5
		17328.4	688.0	1280.0	285.4	321.1	356.8	1143673.5	0.95	5.93	

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Section	Solution Type	Section Modulus	Width	Depth	Weight by Ratio			Moment of Inertia	Coating Area		Configuration
					60%	80%	100%		Front	Front & Back	
		in^3/ft (cm^3/m)	in (mm)	in (mm)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	lb/ft^2 (kg/m^2)	in^4/ft (cm^4/m)	ft^2/ft (m^2/m)	ft^2/ft (m^2/m)	
186-688	I	346.1	27.1	50.4	60.8	68.5	76.1	8719.4	3.12	20.01	D5
		18604.9	688.0	1280.0	297.1	334.2	371.4	1190713.3	0.95	6.1	
189-623	I	351.3	24.5	46.5	62.4	70.2	78.0	8090.7	2.36	14.73	A4
		18886.4	623.0	1180.0	304.6	342.7	380.8	1104854.7	0.72	4.49	
200-623	I	372.2	24.5	42.5	64.7	72.8	80.9	7267.6	2.36	15.12	B3
		20009.2	623.0	1080.0	315.9	355.4	394.8	992455.9	0.72	4.61	
210-623	I	391.4	24.5	50.4	64.5	72.5	80.6	9770.6	2.36	15.39	A5
		21045.1	623.0	1280.0	314.7	354.0	393.4	1334261.8	0.72	4.69	
223-623	I	414.5	24.5	46.5	66.8	75.1	83.5	8909.7	2.36	15.78	B4
		22283.9	623.0	1180.0	326.0	366.7	407.4	1216703.5	0.72	4.81	
246-623	I	457.8	24.5	50.4	68.8	77.4	86.0	10741.9	2.36	16.4	B5
		24612.5	623.0	1280.0	336.0	378.0	420.0	1466903.2	0.72	5	

Specifications

When using steel sheet pile, it is necessary to make allowances for deviations from theoretical exactness. The degree of precision obtainable in the production of sheet pile is limited by the basic character of the rolling processes and normal limitations of mill equipment. Care must be taken during installation to assure that each element is being set at the desired driving dimension.

- Dimensions typically shown are nominal.
- Actual thicknesses vary due to mill rolling practices; however, permitted variations for such dimensions are not addressed.
- Interlocks should be reasonably free-sliding when threaded.
- Terms, tolerance, dimensions, and delivery conditions are in accordance with EN 10248 and/or ASTM A6.

	AMERICAN ASTM A 6		EUROPEAN EN 10248
Mass	5%	-2.5%	± 5%
Length	+ 5in.	-0 in.	± 200mm
Height			± 7mm
Thickness			± 0.5mm for ≤ 8.5mm ± 6% for > 8.5mm
Width Interlocked			± 3%
Straightness			0.2% of the length
Ends ou of Square			2% of the width

Available Steel Grades

AMERICAN		
ASTM	YIELD STRENGTH	
	(ksi)	(MPa)
A 328	39	270
A 572 Grade 42	42	290
A 572 Grade 50	50	345
A 572 Grade 55	55	380
A 572 Grade 60	60	415
A 572 Grade 65*	65	450
A 588 Grade 50	50	345
API 5L x70	70	485
ASTM A 690 MARINER®	50	345

CANADIAN		
CSA G40.21	YIELD STRENGTH	
	(ksi)	(MPa)
Grade 260 W	38	260
Grade 300 W	44	300
Grade 355 W	50	350
Grade 400 W	58	400

EUROPEAN		
EN 10248	YIELD STRENGTH	
	(ksi)	(MPa)
S 240 GP	35	240
S 270 GP	39	270
S 320 GP	46	320
S 355 GP	51	355
S 390 GP	57	390
S 430 GP	62	430
S 450 GP*	65	450

ENGINEERING DISCLAIMER

This publication contains information on the properties of hot-rolled sheet pile based on accepted engineering practices related to sheet pile products and projects. The use of the data contained herein must be supplemented with qualified professional judgment.

LEGAL DISCLAIMER

“The information, including technical and engineering data, figures, tables, designs, drawings, details, suggested procedures, and suggested specifications, presented in this publication are for general information only. While every effort has been made to ensure its accuracy, this information should not be used or relied upon for any specific application without independent competent professional examination and verification of its accuracy, suitability and applicability.

Anyone making use of the material does so at their own risk and assumes any and all liability resulting from such use. **SHEET PILE LLC DISCLAIMS ANY AND ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY FITNESS FOR ANY GENERAL OR PARTICULAR PURPOSE OR FREEDOM FROM INFRINGEMENT OF ANY PATENT, TRADEMARK, OR COPYRIGHT IN REGARD TO INFORMATION OR PRODUCTS CONTAINED OR REFERRED TO HEREIN.** Nothing herein contained shall be construed as granting a license, express or implied, under any patents.

WADIT®

Made by and for sheet pile professionals, WADIT® is the go-to sealant solution for projects where water leakage is a concern, such as dewatering cofferdams and barrier walls for site remediation. Sheet-Pile offers professional application by trained installation crews, ensuring an impermeable long-lasting seal for sheet pile interlocks every time. Factory application to individual sheets or various configuration assemblies may present time/cost savings. In any case, factory or field applications provide guaranteed exceptional service.

The WADIT® system can be installed in any interlock type: hot rolled, cold rolled, O-Pile® or combined sheet pile. The discharge is typically zero when properly applied into the sheet pile interlock. Installation is priced per foot or meter of interlock and available globally.

Common Applications

- Temporary and permanent sheet pile wall constructions
- Reduction of corrosion inside the interlock chamber
- Wall constructions in soils that contain ground water, have the consistency of clay, or with small fine particle fraction (gravel-type soil)
- Reduction of interlock friction that aids installation
- Trenches in soil types with a high ground water level
- Dam renovation work
- Sealing of river banks
- Delimitation of underground water courses in water protection zones
- Sealing work on concrete and steel components

Benefits

Tested and Certified

WADIT® fortifies your project. This real world and lab tested sealant keeps water out and protects against hazardous substances. Comprehensive third-party test data clearly states that the permeability of a sheet pile lock with WADIT® is zero because there is NO water flow through the sheet pile lock at five bars (-70 post) of differential water pressure. Please refer to the Water-Tightness Study.

Highly Durable

WADIT® performs in every environment, from the tropics to the arctic, where high pressure sealing is required with extreme temperature ranges. The longevity of your sheet pile project is guaranteed.

Extremely Flexible

WADIT® has exceptional memory rebound properties. Conventional materials may harden like glass in temperatures of just 50°F (10°C). WADIT®, on the other hand, remains extremely flexible even in groundwater.

Environmentally Friendly

WADIT® is non-toxic and made from sustainable, natural raw materials. Internationally lab-tested and certified, WADIT® is safe and can be used without any restriction in sheet pile wall interlocks for ground and surface water use.

Impervious to Weather

No matter the climate, WADIT® can be applied, transported and stored in any weather condition, ensuring a fast and problem-free sealant application. Once installed in the sheet pile interlocks, no further action by the contractor is required. No special packaging or transport instructions are needed.

Professionally Installed and Certified by Sheet Pile LLC

Certified technicians professionally install WADIT® to ensure the perfect seal every time. You can be confident that the quality of your project will never be compromised. Every installation generates a unique registered WADIT® certificate number, enabling you to confirm WADIT® certification status of all your projects.

PilePro® Connectors

The World's Leading Sheet Piling Corner Connectors

PilePro's engineered profiles give foundation construction far greater potential by making sheet piling installations simpler to design and more cost-effective to construct.

Any Sheet Piling and Combined Wall Combinations

PilePro solutions enable all conceivable connections with any sheet piling type or use, including combined walls that incorporate beam, H pile or pipe sections.

Why PilePro® Connectors?

PilePro connectors have effectively rendered fabricating corners a process of the past. For today's foundation construction projects, PilePro connectors give the owner a cost effective, readily available engineered solution.

The Advantages of PilePro® vs. Fabricating Corners Are:

Engineered products versus a non-uniform process: PilePro connectors are produced with the highest quality control standards. Each unit is measured by hand at the plant prior to shipment, thus ensuring that all the dimensions are within the given specification and will therefore, perfectly match the appropriate sheet piling section.

Less corrosion risk: Since PilePro connectors are interlocked and attached to sheet piling, the integrity of the steel wall acting as a single unit is always maintained.

Less expensive: PilePro connectors provide superior cornering solutions at a much lower cost. PilePro however, is able to provide a cornering solution for much less, through either its use of certified distributors or via shipments delivered directly to the job site.

No delays: PilePro connectors enable the user to immediately build sheet wall configurations without having the delays and risks associated with the process of fabrication.

Less corner inventory: Modular corners and connectors allow distributors and contractors to greatly lower their inventory of cornering solutions. PilePro connectors can be adjusted to a wide range of angles and lengths, thus eliminating the need for a multitude of fabricated corners for each configuration. By comparison, when using fabricated corners contractors must have the specific corner to match not only the specific angle needed, but also the appropriate length and exact type and designation of sheet piling used.

Easily transported: PilePro connectors are easily bundled and can be transported efficiently with minimal risk of damage. Fabricated corners, on the other hand, do not stack well, take up much more space, weighs a great deal more and are prone to handling damage.

More durable: PilePro connectors are stronger and therefore, more durable than hot-rolled sheet pile of fabricated sheet pile corners. Due to precise engineering and the hot extrusion process, PilePro connectors have greater flexibility within the interlock. Typically they offer 20 to 30 degree of swing versus the 2 to 5 degree swing found in traditional fabricated corners; thus they are easier to drive and extract. Easier installation and extraction speeding up the job but also longer lasting sheet piles.

Any possible connection: PilePro connectors allow for all conceivable connections between every type and brand of sheet pile, pipe pile and beams.

Please Note:

- Tack or spot-weld the connector in place (typically a 200mm or 8” weld attaching the connector to the sheet pile at the top is sufficient.
- The possibility of adjusting the profiles in the area of the interlock can vary due to size and rolling.
- All angles specified are approximations and may vary.
- PilePro® connectors are protected by IP.
- PilePro® connectors are subject to technical modifications.

Announcing 24-HR Delivery

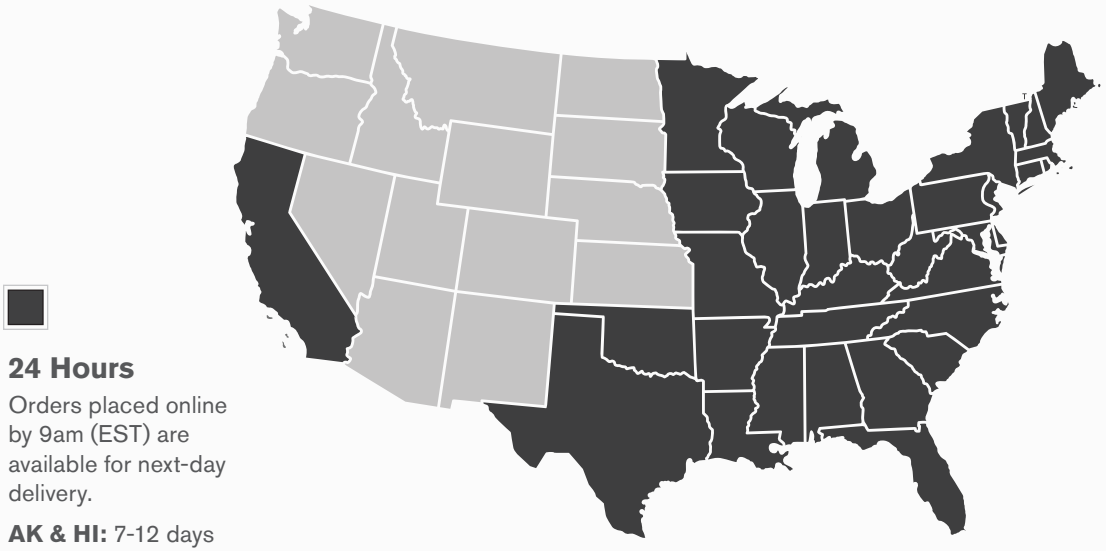
PilePro knows immediate access to materials is critical to keep projects on time and budget. We now offer 24-HR delivery, on in-stock Z sheet pile corner connectors, to your project job site or across most of the US. Or if 24-HR delivery is not available in your area, try our Quick Delivery—order any quality of in-stock connectors and they'll arrive to your job site within 2-4 days.

Frequently Asked Questions:

Is there an additional cost to 24-HR turnaround delivery? None to a contractor or end user.

Can you order online and/or over the phone for 24-HR serivce? Online orders are processed quickly and efficiently; if you need to speak to a PilePro expert about a next-day delivery, call (866) 666-7453.

Is there a cut-off time for next-day delivery? Yes, next-day orders should be placed by 9am Eastern Standard Time.



24 Hours
Orders placed online by 9am (EST) are available for next-day delivery.

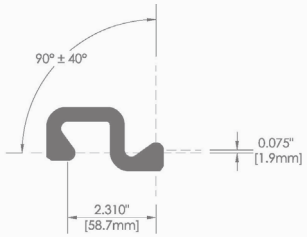
AK & HI: 7-12 days

How It Works

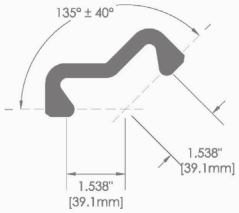
1. **Fill out online product order form**
2. **A sales rep from PilePro will call to confirm order**
3. **Check clock.** Orders placed before 9am (EST) get delivered the next day
4. **Receive order on project job site within 24 hours**

PilePro® Connectors

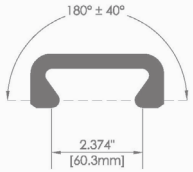
LARSSEN
HOT ROLLED



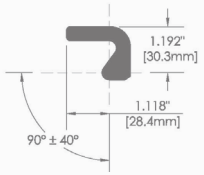
HR® 90



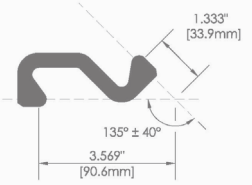
HR® 135



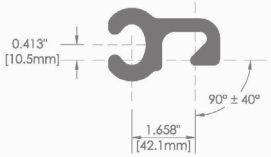
HR® 180



C9®



HR® COLT



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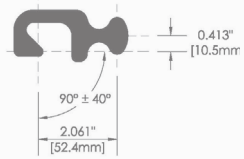

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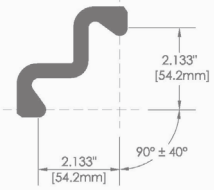
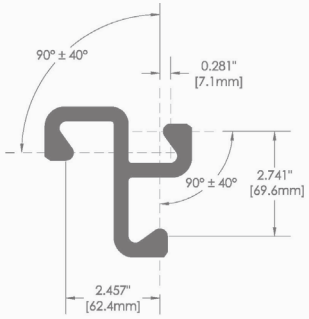


HR® OMEGA

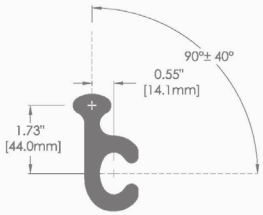


HR® TEE

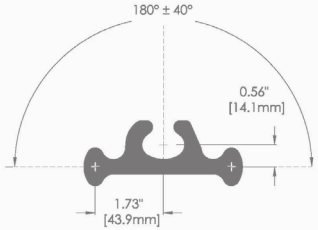
NOTE: Please always tell us what you are trying to achieve with what exact ssp section and we guarantee what we will supply you will work for your application.
Above products is a guide. We typically stock solutions for ANY/ALL connectors you may need for 95% or globally produced sheet pile.

PilePro® Connectors

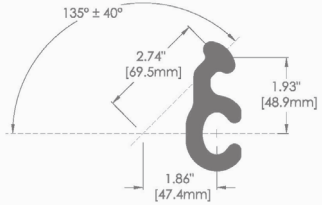
BALL & SOCKET
MULTI-USE



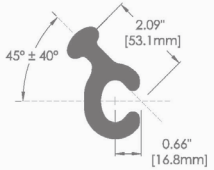
PZ 90



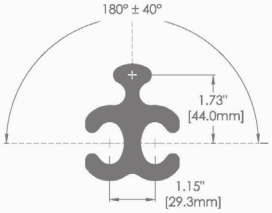
BULLHEAD



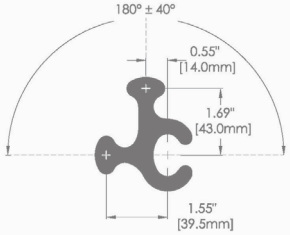
COBRA



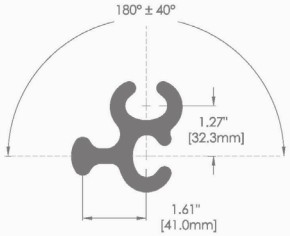
COLT



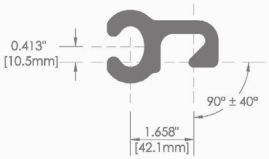
JOKER



PZ TEE



PZT-S



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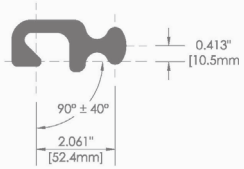


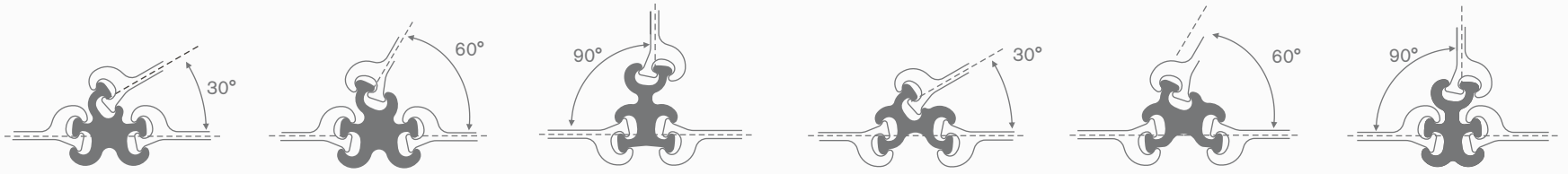
LBM

Sheet Pile LLC is the owner and assignee of US 7,390,145, related to these connectors.

NOTE: Please always tell us what you are trying to achieve with what exact ssp section and we guarantee what we will supply you will work for your application. Above products is a guide. We typically stock solutions for ANY/ALL connectors you may need for 95% or globally produced sheet pile.

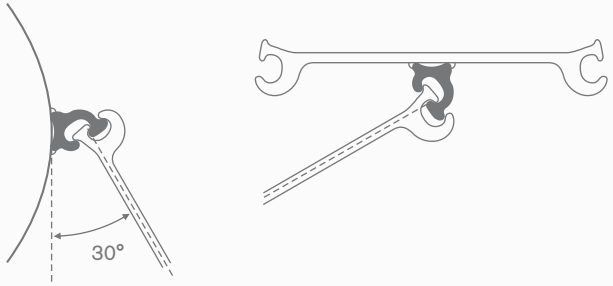
PilePro® Connectors

FLAT SHEET

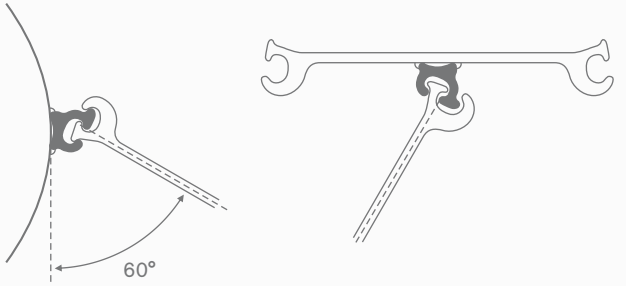


SWC® 30A **SWC® 60A** **SWC® 90A** **SWC® 30B** **SWC® 60B** **SWC® 90B**

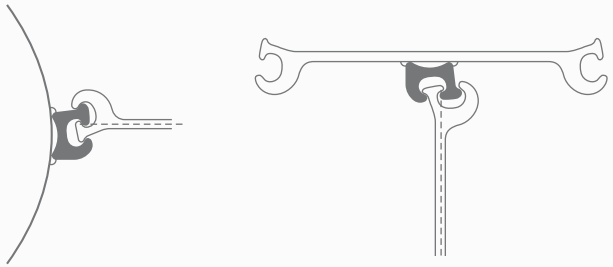
SWC® 30



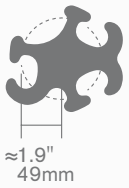
SWC® 60

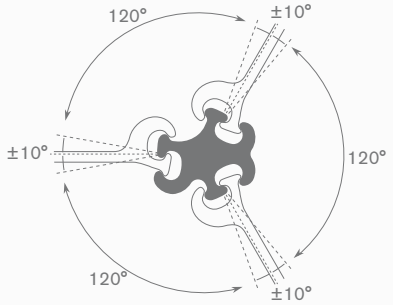


SWC® 90



SWC® 120





Sheet Pile LLC is the owner and assignee of US 7,946,791,145, related to these connectors.

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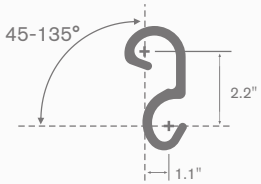
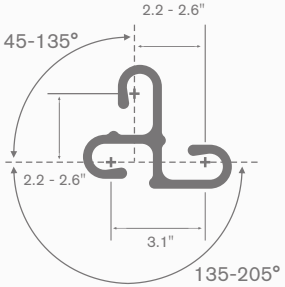
PilePro® Connectors

CF
COLD FORMED

CF® 90
pilepro.com/CF90



CF® TEE
pilepro.com/CFT



Sheet Pile LLC is the owner and assignee of US 8,047,745, related to these connectors.

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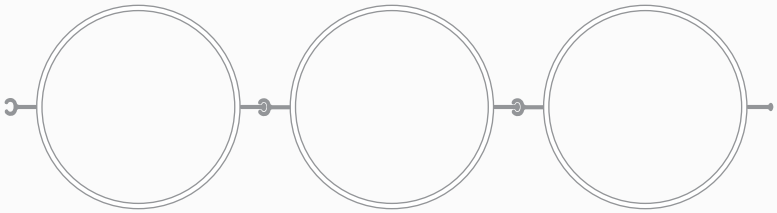
Above products is a guide. We typically stock solutions for ANY/ALL connectors you may need for 95% or globally produced sheet pile.

Sheet Pile LLC Configurations Using PilePro® Connectors

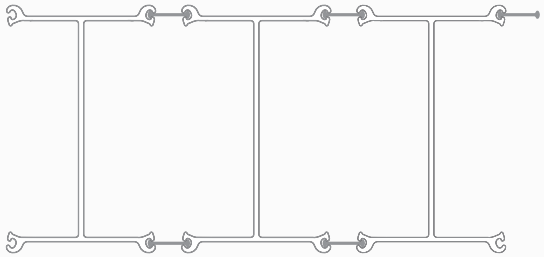
O-Pile®



O-Pile®

Please refer to O-Pile® section above ***(pages 17-42)***

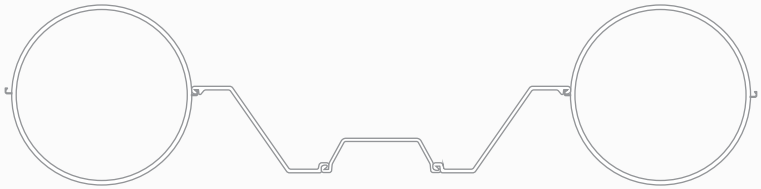
I-Pile®



I-Pile®

Please refer to I-Pile® section above ***(pages 43-81)***

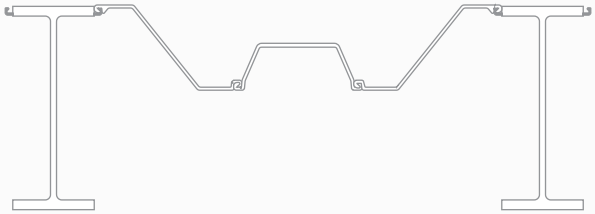
OZ Pile



OZ Pile

Please refer to OZ Pile section above ***(pages 82-139)***

IZ Pile



IZ Pile

Please refer to IZ Pile section above ***(pages 140-234)***

Appendix

Example selections of High Efficiency Systems
Sheet Pile LCC – Planning Software Method Patent

US008055481B2

(12) **United States Patent**
Wendt

(10) **Patent No.: US 8,055,481 B2**
(45) **Date of Patent: Nov. 8, 2011**

(54) **METHOD FOR PLANNING SHEET PILE WALL SECTIONS**

(75) Inventor: **Roberto Wendt**, Rapid City, SD (US)

(73) Assignee: **Pilepro, LLC**, Austin, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 565 days.

(21) Appl. No.: **12/224,580**

(22) PCT Filed: **Feb. 18, 2007**

(86) PCT No.: **PCT/EP2007/001389**

§ 371 (c)(1),
(2), (4) Date: **Oct. 30, 2008**

(87) PCT Pub. No.: **WO2007/098866**

PCT Pub. Date: **Sep. 7, 2007**

(65) **Prior Publication Data**

US 2009/0306940 A1 Dec. 10, 2009

(30) **Foreign Application Priority Data**

Mar. 1, 2006 (EP) 06004147
Jun. 26, 2006 (EP) 06013136

(51) **Int. Cl.**
G06F 17/50 (2006.01)

(52) **U.S. Cl.** **703/1**; 405/274; 405/278

(58) **Field of Classification Search** 703/1, 16, 703/5; 405/229, 262, 233, 267, 277, 279, 405/274, 278

See application file for complete search history.

(56) **References Cited**

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5,119,307 A 6/1992 Blaha et al.
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FOREIGN PATENT DOCUMENTS

WO WO 03/079185 A2 9/2003

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"QWALLS Bemessung von Traegerbohl", Handbush Des Rtwalls-Prorammteils WWDIM Zur Bemessung XP-007902402, Nov. 2003, pp. 1-44.

(Continued)

Primary Examiner — Thai Phan

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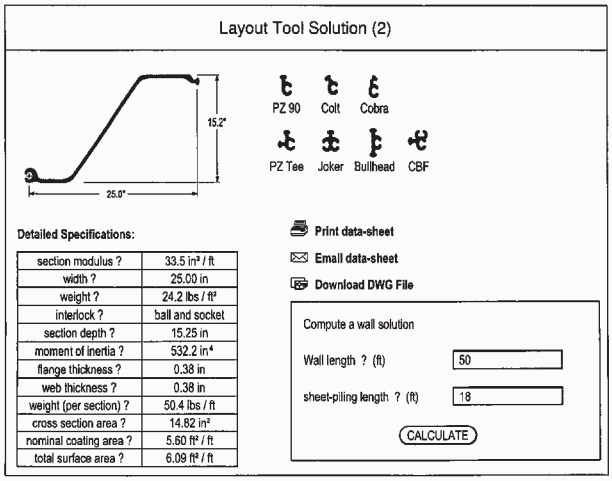
(57) **ABSTRACT**

A method is provided for planning sheet pile wall sections via a user-oriented network—in particular, the Internet—in which at least technical characteristics of a suitable component for the layout of a sheet pile wall section and/or the layout of a sheet pile wall section itself are determined for the user by a computer system. The method comprises the steps of: (a) entering at least two constructional parameters of the sheet pile wall section, via the user-oriented network, into the computer system, within which various data of components for the layout of a sheet pile wall section, data of layouts for sheet pile wall sections, and technical characteristics of the components and the layouts are stored in a database of the computer system; (b) determining at least one suitable component and/or at least one suitable layout, via the computer system, on the basis of the entered construction parameters and the technical characteristics stored in the database; and (c) providing the user with the data of the component and/or layout determined in step (b) and the technical characteristics of the determined component and/or the layout, via the user-oriented network.

19 Claims, 18 Drawing Sheets



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U.S. PATENT DOCUMENTS

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* cited by examiner

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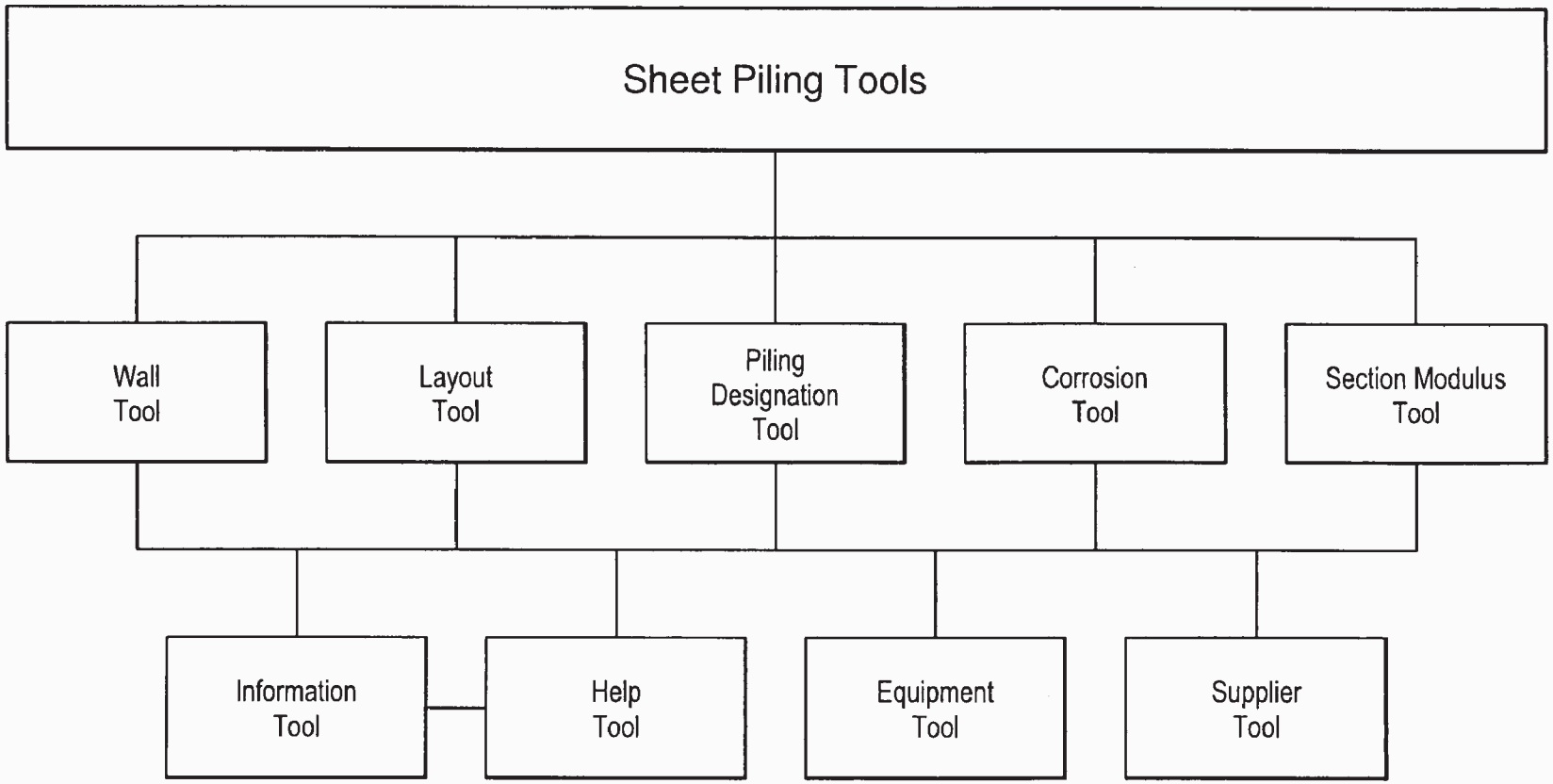

Sheet Piling Tools
Wall Tool
Layout Tool
Piling Designation Tool
Corrosion Tool
Section Modulus Tool
Information Tool
Help Tool
Equipment Tool
Supplier Tool

FIG. 1

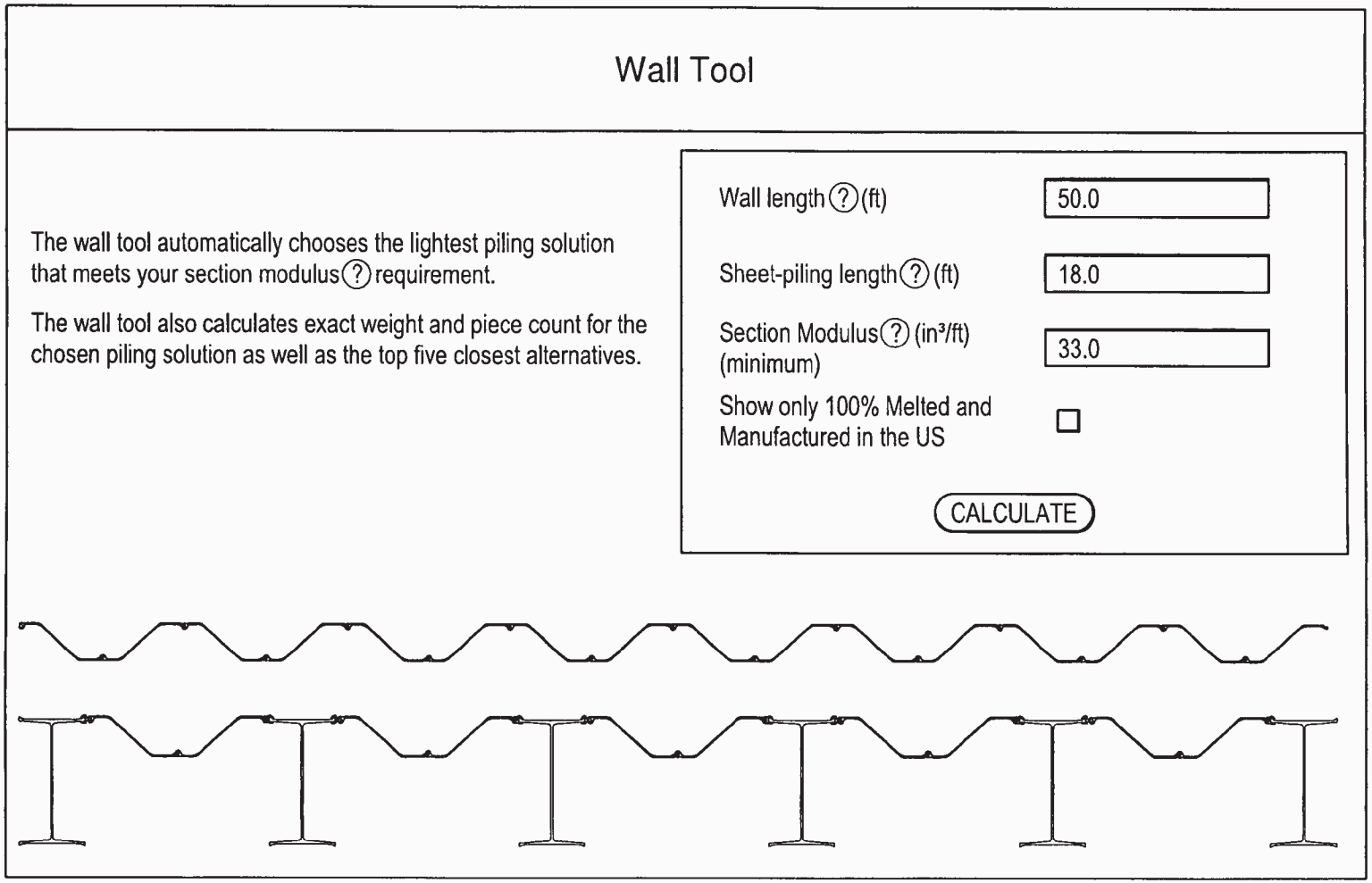

Wall Tool
The wall tool automatically chooses the lightest piling solution that meets your section modulus ? requirement.
The wall tool also calculates exact weight and piece count for the chosen piling solution as well as the top five closest alternatives.
Wall length ? (ft)
50.0
Sheet-piling length ? (ft)
18.0
Section Modulus ? (in³/ft) (minimum)
33.0
Show only 100% Melted and Manufactured in the US
CALCULATE

FIG. 2

Wall Tool Solution (1)

computed solutions

Most efficient solution by weight is the PZC 13 with lb/ft² of 24.2.

Section modulus ≥ 33.0 in³/ft,

Wall length of 50.00 ft*,

Sheet-piling length of 18.00 ft,

Additional alternatives:

Piling designation	section Modulus ?	weight ?	wall length* ?	sections to drive ?	sections to set ?	Total Tons
PZC 18	33.5 in³ / ft	24.2 lb / ft²	50.00 ft	n/a	24	10.9
PZC 19	36.1 in³ / ft	26.4 lb / ft²	50.00 ft	n/a	24	11.9
PZC-B 34	63.4 in³ / ft	31.5 lb / ft² (@60% sheet length)	45.55 ft	8	8	12.9 (@60% sheet length)
PZC 25	45.7 in³ / ft	29.9 lb / ft²	48.78 ft	n/a	21	13.1
PZC-B 39	72.6 in³ / ft	37.7 lb / ft² (@60% sheet length)	46.21 ft	8	8	13.6 (@60% sheet length)

* calculations will reflect the closest number of piling designations needed

FIG. 3

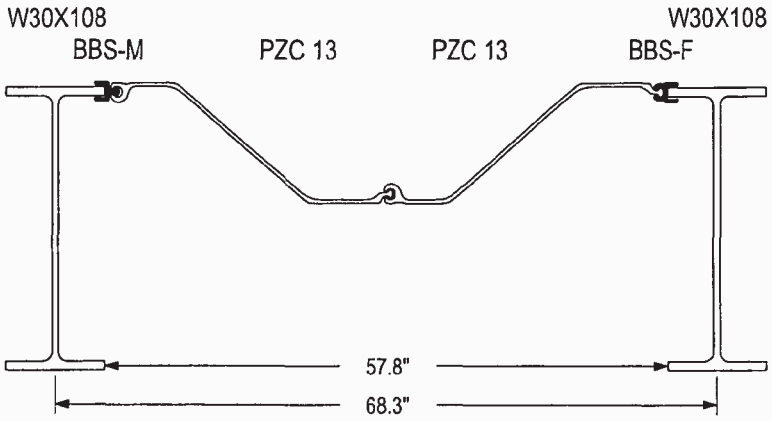
Wall Tool Solution (2)

PZC-B 34

View specification

Download DWG File
Print solution
Email data-sheet

Cornering information
Request a Quote
Engineering Help



Solution Components

King Pile: W30x108
Units: 79
Length: 30.00 feet
Tons: 128.0

Sheet length to beam length: 100% 80% 60%

Sheet-piling: PZC 13 (pair)
Units: 79
Length: 18.00 feet
Tons: 71.7

Connector #1: BBS-M
Length: 18.00 feet
Number of feet: 1422.00 feet
Tons: 6.1

Connector #2: BBS-F
Length: 18.00 feet
Number of feet: 1422.00 feet
Tons: 6.5

Solution Summary

Piling designation	PZC-B 34
Wall length*	449.79 ft
Sheet-Piling length	18.00 ft
King Pile length	30.00 ft
Section modulus	63.4 in³/ft
lb/ft²	31.5
Total tons	212.2
Sections to drive	79
Setting ratio	84.6
Driving ratio	15.4

* *calculations will reflect the closest even number of wall sections*

To recalculate based on a specific, custom sheet length (independent of beam length), click here.

FIG. 4

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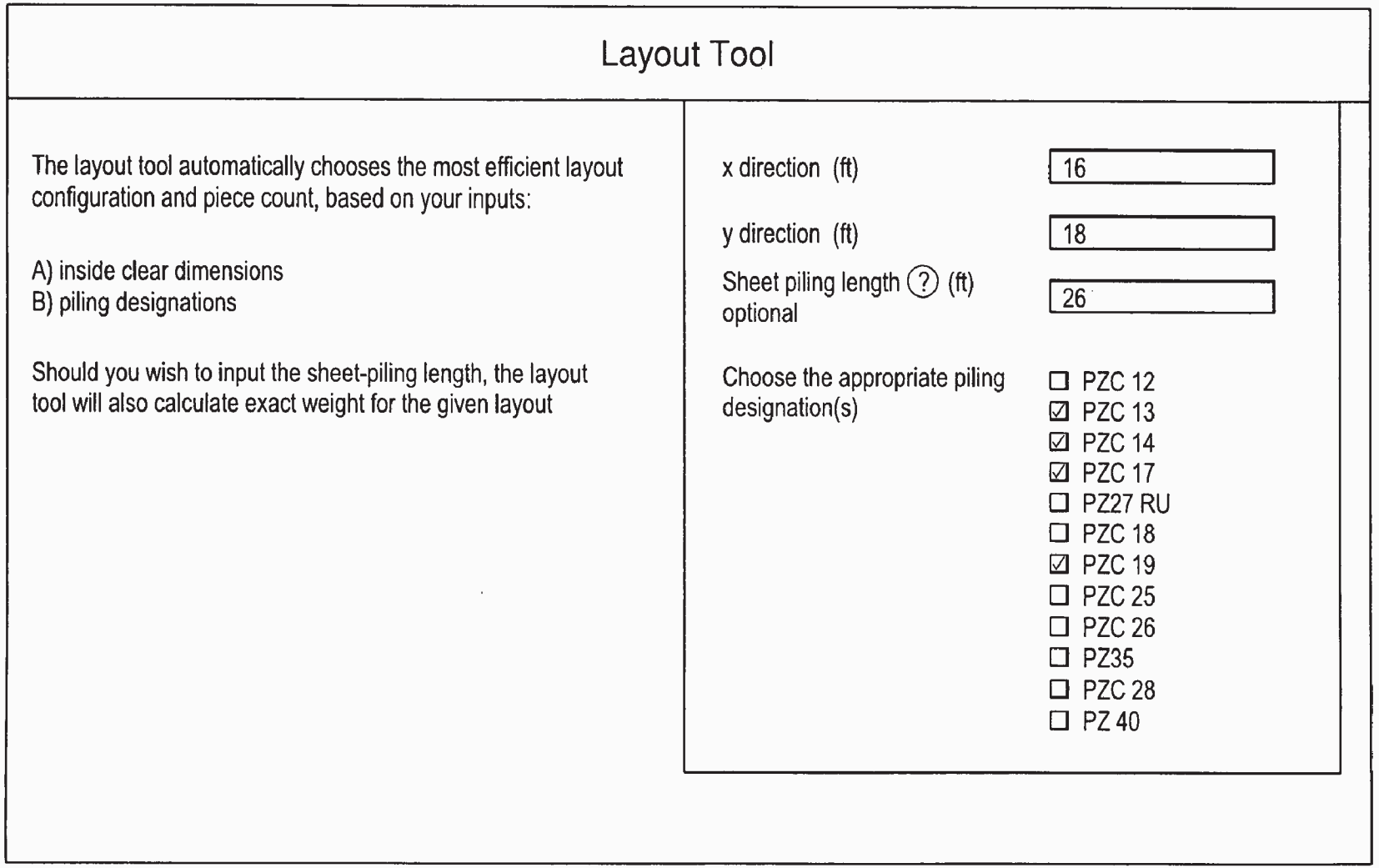

Layout Tool
The layout tool automatically chooses the most efficient layout configuration and piece count, based on your inputs:
A) inside clear dimensions
B) piling designations
Should you wish to input the sheet-piling length, the layout tool will also calculate exact weight for the given layout
x direction (ft)
16
y direction (ft)
18
Sheet piling length ? (ft) optional
26
Choose the appropriate piling designation(s)
PZC 12
PZC 13
PZC 14
PZC 17
PZ27 RU
PZC 18
PZC 19
PZC 25
PZC 26
PZ35
PZC 28
PZ 40

FIG. 5

Layout Tool Solution (1)

- computed solutions

Print solution
Request a Quote
Engineering Help

Most efficient solution by weight is as follows:

x direction (16.00ft):
8 x PZC 13 (single) sheets
total distance 16.84ft

y direction (18.00ft):
8 x PZC 13 (single) sheets
total distance 18.62ft

"figure 3" type layout with 4 x PZ 90* connectors

21.0 total tons of PZC 13 (single)

4 x 26.00" PZ 90* connectors (104.00 total feet)

* Please note that that PZ 90 is recommended but that the PZ Tee, JOKER, BULLHEAD and CBF can also be used to make cofferdams.

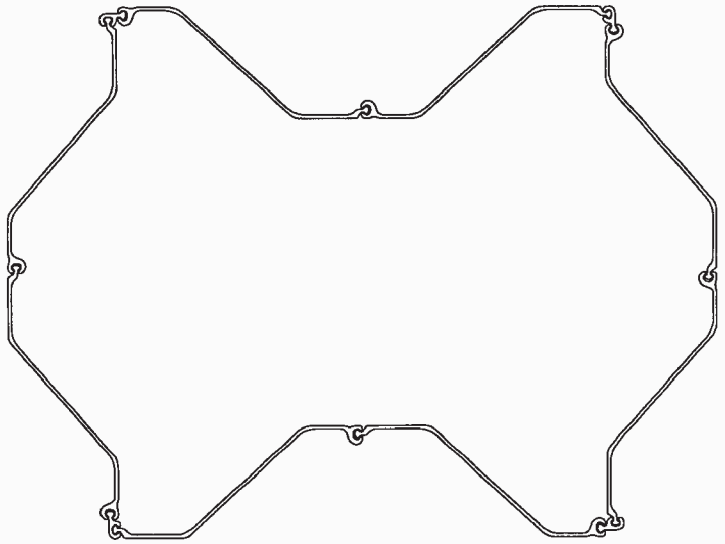
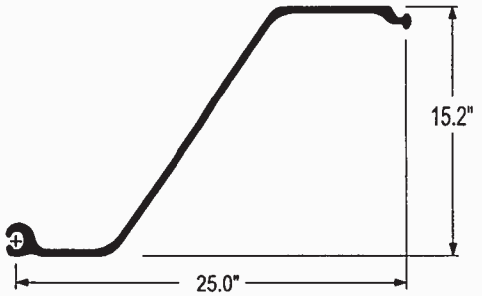
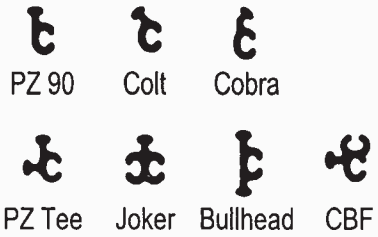


figure 3

FIG. 6

Layout Tool Solution (2)





Detailed Specifications:

section modulus ?	33.5 in³ / ft
width ?	25.00 in
weight ?	24.2 lbs / ft²
interlock ?	ball and socket
section depth ?	15.25 in
moment of inertia ?	532.2 in⁴
flange thickness ?	0.38 in
web thickness ?	0.38 in
weight (per section) ?	50.4 lbs / ft
cross section area ?	14.82 in²
nominal coating area ?	5.60 ft² / ft
total surface area ?	6.09 ft² / ft

Print data-sheet

Email data-sheet

Download DWG File

Compute a wall solution

Wall length ? (ft) 50

sheet-piling length ? (ft) 18

CALCULATE

FIG. 7

Piling Designation				
Piling Designation	Solution Type	section modulus ? in³ / ft	weight ? lbs / ft²	width ? in
PZC 12		22.4	20.0	27.88
PZC 13		24.2	21.7	27.88
PZC 14		26.0	23.7	27.88
PZC 17		31.0	22.3	25.00
PZC27 RU		31.0	27.7	18.00
PZC 18		33.5	24.2	25.00
PZC 19		36.1	26.4	25.00
PZC 25		45.7	29.9	27.88
PZC 26		48.4	31.8	27.88
PZ35		48.9	35.0	22.64
PZC 28		51.2	34.0	27.88
PZ40		61.3	40.0	19.69
PZC-B 41		75.7	34.2	76.05
PZC-B 45		83.9	34.8	76.05
PZC-B 51		95.1	36.0	76.05
PZC-B 57		106.8	37.2	76.05
PZC-B 62		116.3	38.9	76.05
PZC-B 65		120.3	39.7	76.05
PZC-B 68		126.2	40.8	76.05
PZC-B 70		129.7	41.4	76.05
PZC-B 77		143.4	44.8	70.29
PZC-B 89		165.7	50.0	76.05
PZC-B 98		181.9	53.2	94.87
PZC-B 100		188.4	54.5	94.87
PZC-B 106		197.8	56.2	94.87
PZC-B 109		203.4	57.3	94.87
PZC-B 118		219.0	61.0	89.11
PZC-B 140		261.3	71.0	94.87
PZC-B 151		280.6	75.6	89.11
PZC-B 160		298.5	82.5	84.39

FIG. 8

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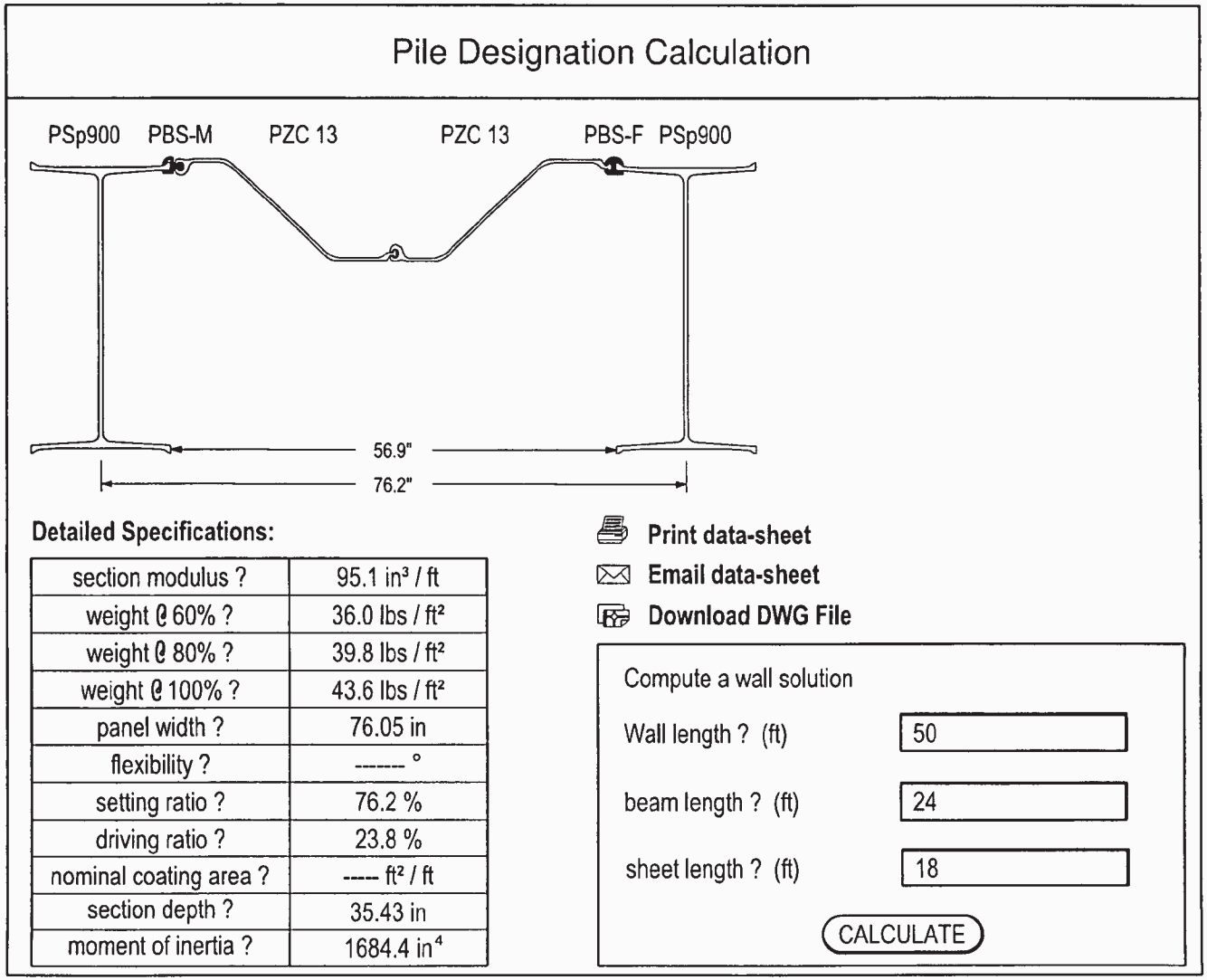

Pile Designation Calculation
PSp900 PBS-M PZC 13 PZC 13 PBS-F PSp900
56.9"
76.2"
Detailed Specifications:
section modulus ? 95.1 in³ / ft
weight @ 60% ? 36.0 lbs / ft²
weight @ 80% ? 39.8 lbs / ft²
weight @ 100% ? 43.6 lbs / ft²
panel width ? 76.05 in
flexibility ? ------ °
setting ratio ? 76.2 %
driving ratio ? 23.8 %
nominal coating area ? ----- ft² / ft
section depth ? 35.43 in
moment of inertia ? 1684.4 in⁴
Print data-sheet
Email data-sheet
Download DWG File
Compute a wall solution
Wall length ? (ft) 50
beam length ? (ft) 24
sheet length ? (ft) 18
CALCULATE

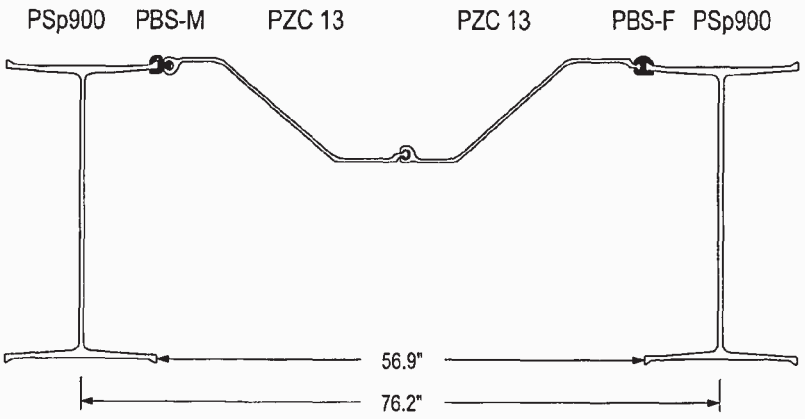
FIG. 9

Pile Designation Solution

View specifications

Download DWG file
Print solution
Email data-sheet

Cornering information
Request a Quote
Engineering Help



Solution Components

King Pile: PSp 900
Units: 7
Length: 24.00 feet
Tons: 13.1

Sheet-piling: PZC 13 (pair)
Units: 7
Length: 18.00 feet
Tons: 8.5

Connecter #1: PBS-M
Length: 18.00 feet
Number of feet: 126.00 feet
Tons: 0.8

Connector #2: PBS-F
Length: 18.00 feet
Number of feet: 126.00 feet
Tons: 0.9

Solution Summary

Piling designation	PZC-B 51
Wall length*	**44.36 ft**
Sheet-Piling length	**18.00 ft**
King Pile length	**24.00 ft**
Section modulus	**95.1 in³/ft**
lb/ft²	**38.9**
Total tons	**20.7**
Sections to drive	**7**
Setting ratio	**76.2**
Driving ratio	**23.8**

* calculations will reflect the closest even number of wall sections

To recalculate based on a different custom sheet length, click here.

FIG. 10

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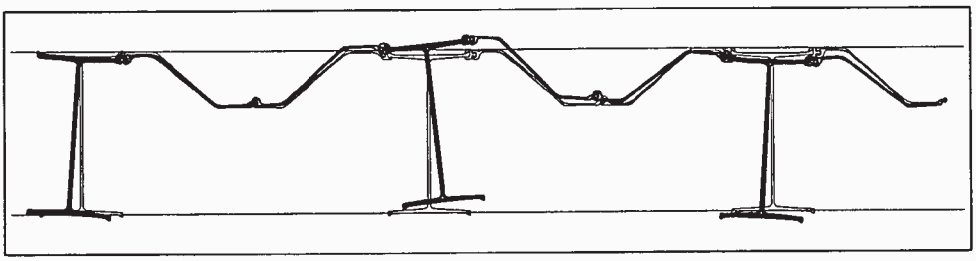
Help "Flexibility"

Flexibility

This specification is critical, as the piling system's flexibility allows for easy setting of the intermediate sheet piling between the already driven king piles (beams).



Furthermore it makes cornering of a piling system efficient and fabrication free.

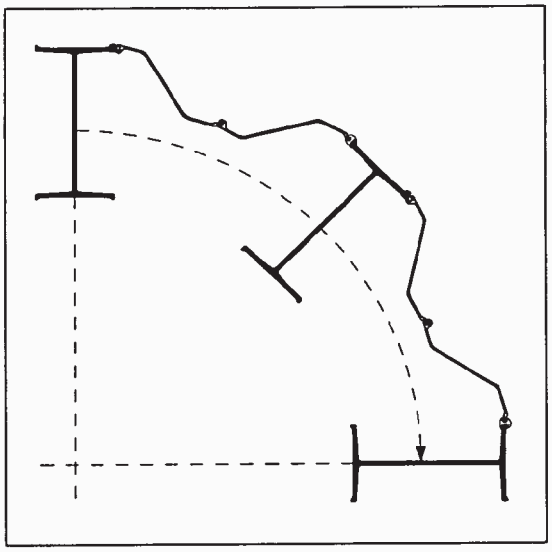


FIG. 11

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Corrosion Tool

Sheet piling designations can be used in all environments provided that an adequate corrosion allowance is considered.

This tool allows the user to calculate the loss of steel thickness over time and equates this loss of metal to loss of section modulus.

[3]Corrosion allowance is defined as establishing the tickness of sacrifical metal (above what is structurally required for the piling) needed to compensate for the loss of metal (and hence section modulus) that will occur when a piling corrodes.[3] (Caltrans, Corrosion Guidelines, September 2003.)

Thus this tool helps the user to establish a corrosion allowance for a particular piling designation to be installed in a particular environment.

Installation environment

Open air:
- ○ Normal
- ○ Near the ocean

Soil:
- ○ Undisturbed Natural ▯ sand, silt and clay
- ⊙ Disturbed Natural ▯ industrial areas
- ○ Aggressive Natural ▯ swamp or marsh
- ○ Fills ▯ non▯compacted clay, silt or sand
- ○ Agressive Fill ▯ compacted ashes or slag

Fresh water:
- ○ Common ▯ rivers, ship canels
- ○ Polluted ▯ sewage, industrial refuge

Salt water:
- ○ Splash zone or low water area
- ○ Zone of permanent immersion or in the tidal zone

Required lifespan of wall: 25 years

Section Modulus (?) (in^3/ft) (minimum at end of lifespan): 40

CALCULATE

FIG. 12

Corrosion Tool Solution

- computed solutions

For a section modulus of a least 40.0 after 10 years in the environment "Soil: Disturbed Natural - industrial areas", your most efficient solutions by weight are:

Piling designation	Default section modulus	Corroded section modulus (10 years)	Weight
PZC 25	45.73 in^3 / ft	44.89 in^3 / ft	29.9 lb / ft^2
PZC-B 34	63.41 in^3 / ft	63.38 in^3 / ft	31.5 lb / ft^2 (@ 60% sheet length)
PZC 26	48.37 in^3 / ft	47.53 in^3 / ft	31.8 lb / ft^2
PZC-B 39	72.58 in^3 / ft	72.55 in^3 / ft	32.7 lb / ft^2 (@ 60% sheet length)
PZC 28	51.23 in^3 / ft	50.40 in^3 / ft	34.0 lb / ft^2

FIG. 13

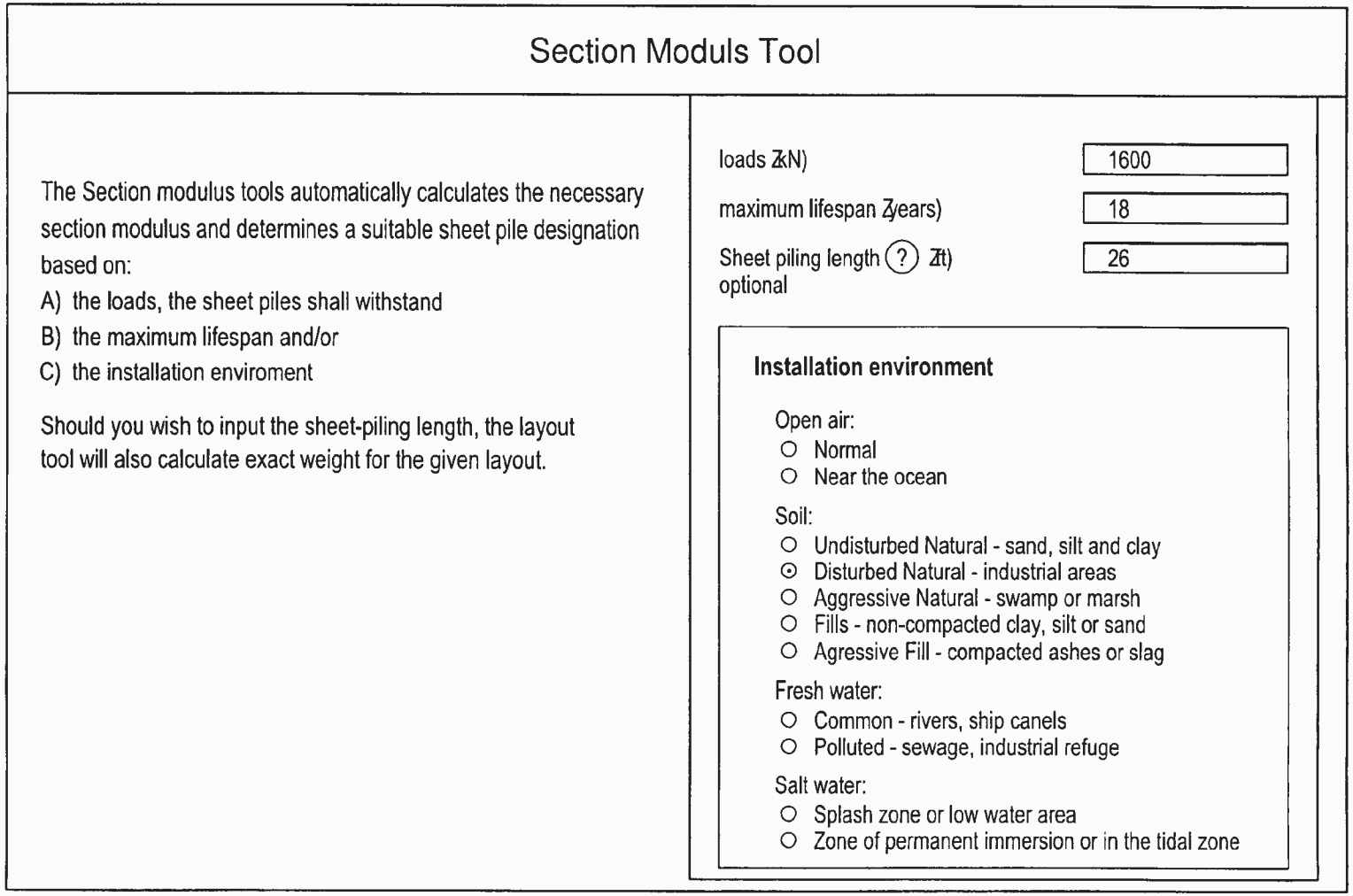
Section Moduls Tool
The Section modulus tools automatically calculates the necessary section modulus and determines a suitable sheet pile designation based on:
A) the loads, the sheet piles shall withstand
B) the maximum lifespan and/or
C) the installation enviroment
Should you wish to input the sheet-piling length, the layout tool will also calculate exact weight for the given layout.
loads (kN)
1600
maximum lifespan (years)
18
Sheet piling length (?) (ft)
optional
26
Installation environment
Open air:
Normal
Near the ocean
Soil:
Undisturbed Natural - sand, silt and clay
Disturbed Natural - industrial areas
Aggressive Natural - swamp or marsh
Fills - non-compacted clay, silt or sand
Agressive Fill - compacted ashes or slag
Fresh water:
Common - rivers, ship canels
Polluted - sewage, industrial refuge
Salt water:
Splash zone or low water area
Zone of permanent immersion or in the tidal zone

FIG. 14

Section Moduls Tool Solution

Most efficient solution by weight is the with lb/ft² of 24.2.

Section modulus ≥ 33.0 in³/ft,

Wall length of 50.00 ft*,

Sheet-piling length of 18.00 ft,

Additional alternatives:

Piling designation	section Modulus ?	weight ?	wall length* ?	sections to drive ?	sections to set ?	Total Tons
PZC 18	33.5 in³ / ft	24.2 lb / ft²	50.00 ft	n/a	24	10.9
PZC 19	36.1 in³ / ft	26.4 lb / ft²	50.00 ft	n/a	24	11.9
PZC-B 34	63.4 in³ / ft	31.5 lb / ft² (@ 60% sheet length)	45.55 ft	8	8	12.9 (@ 60% sheet length)
PZC 25	45.7 in³ / ft	29.9 lb / ft²	48.78 ft	n/a	21	13.1
PZC-B 39	72.6 in³ / ft	37.7 lb / ft² (@ 60% sheet length)	46.21 ft	8	8	13.6 (@ 60% sheet length)

* calculations will reflect the closest number of piling designations needed

FIG. 15

Supplier Tool

Piling Designation ?	Section Modulus ?	lbs/ft² ?	Nominal Width ?	Producer	Stock	Rolling Plant	Price	Used
PZC 12	22.4	20.0	27.88	☑	☑	☐	☐	☐
PZC 13	24.2	21.7	27.88	☐	☐	☐	☐	☐
PZC 14	26.0	23.7	27.88	☐	☐	☐	☐	☐
PZC 17	31.0	22.3	25.00	☐	☐	☐	☐	☐
PZ27 RU	31.0	27.7	18.00	☐	☐	☐	☐	☐
PZC 18	33.5	24.2	25.00	☐	☐	☐	☐	☐
PZC 19	36.1	26.4	25.00	☐	☐	☐	☐	☐
PZC 25	45.7	29.9	27.88	☐	☐	☐	☐	☐
PZC 26	48.4	31.8	27.88	☐	☐	☐	☐	☐
PZ35	48.9	35.0	22.64	☐	☐	☐	☐	☐
PZC 28	51.2	34.0	27.88	☐	☐	☐	☐	☐
PZ 40	61.3	40.0	16.69	☐	☐	☐	☐	☐

FIG. 16

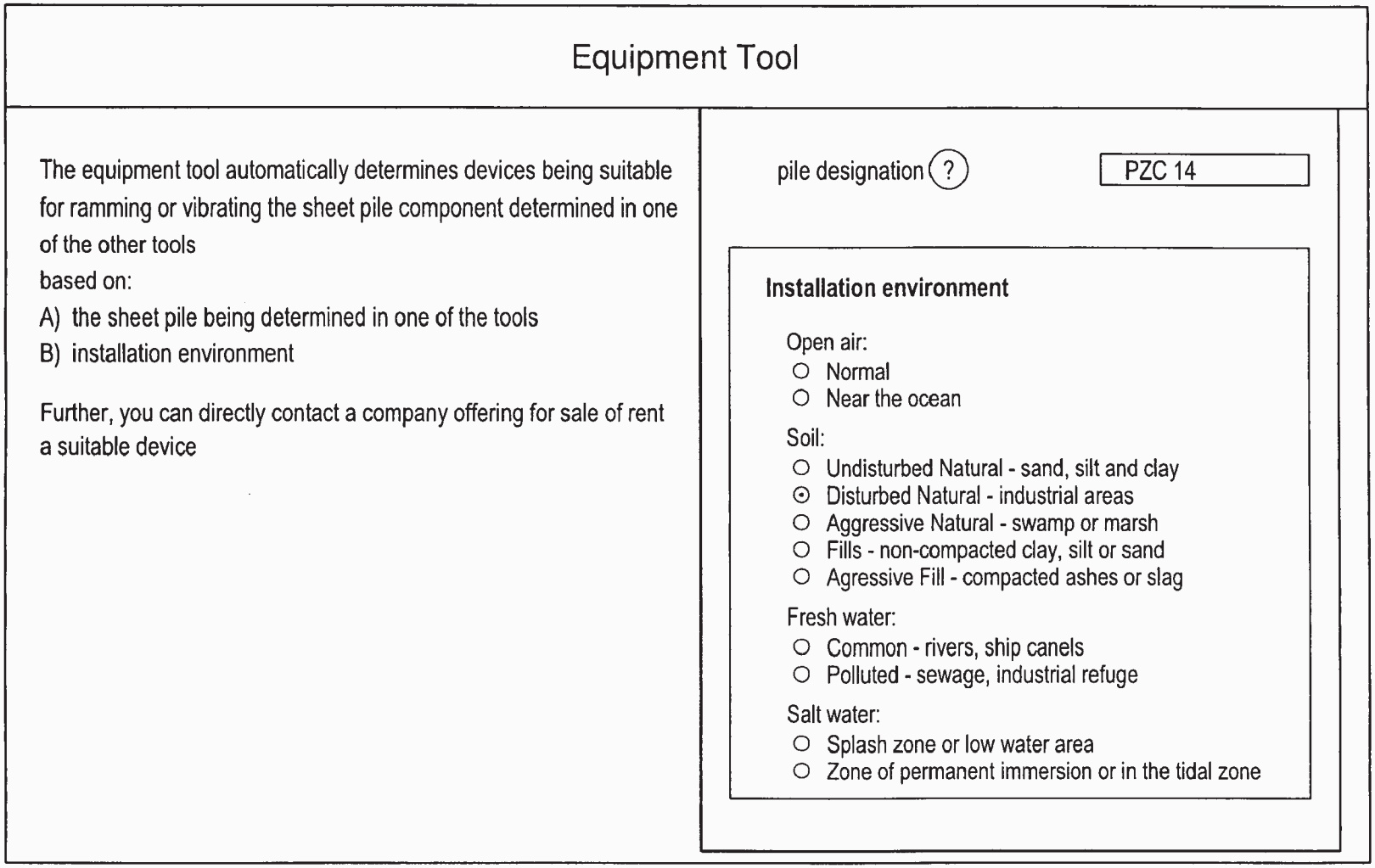
Equipment Tool
The equipment tool automatically determines devices being suitable for ramming or vibrating the sheet pile component determined in one of the other tools
based on:
A) the sheet pile being determined in one of the tools
B) installation environment
Further, you can directly contact a company offering for sale of rent a suitable device
pile designation ?
PZC 14
Installation environment
Open air:
Normal
Near the ocean
Soil:
Undisturbed Natural - sand, silt and clay
Disturbed Natural - industrial areas
Aggressive Natural - swamp or marsh
Fills - non-compacted clay, silt or sand
Agressive Fill - compacted ashes or slag
Fresh water:
Common - rivers, ship canels
Polluted - sewage, industrial refuge
Salt water:
Splash zone or low water area
Zone of permanent immersion or in the tidal zone

FIG. 17

Equipment Tool Result

The equipment which can be used for installing PZC 14 sheet piles is a vibrator having the follwoing technical characteristics:

Vibrator	Type	MS-16 HF	MS-25 H2	MS-25 H3	MS-50 H2	MS-50 H3
Technical Data						
Centrifugal force	kN	969	774	774	1430	1430
Eccentric moment	kgm	16	25	25	50	50
Speed max.	rpm	2350	1680	1680	1615	1615
Frequenzy	Hz	39,2	28,0	28	27	27
Pulling force	kN	300	400	400	500	500
Weight (dyn.) excl. clamp	kg	1700	1930	2550	3340	3820
Weight (total) excl. clamp	kg	3000	3200	3600	6300	6790
Amplitude (S=2 s)	mm	18,8	25,9	19,6	29,9	26,2
Vibrator performance max.	kW	165 219	218	218	305 419	419
Absorption volume	ltr./min	282 376	374	374	523 719	719
Operating pressure max.	bar	350 350	350	350	350 350	350
Length L	mm	1700	2200	2200	2600	2600
Width W	mm	929	681	777	696	696
Height H	mm	1985	1685	1745	2035	2095
Waiste-line WL	mm	350	340	402	340	402

Such a vibrator is offered by the company A. For more information click here **COMPANY A**

FIG. 18

METHOD FOR PLANNING SHEET PILE WALL SECTIONS

BACKGROUND OF THE INVENTION

The present invention relates to a method used for planning sheet pile wall sections, in which suitable components and/or layouts for sheet pile wall sections, for the erection of sheet pile walls and wall sections, are determined.

Currently, the planning of sheet pile wall sections—such as sheet pile walls, combi-walls (a combination of sheet piles and beams, connected with each other), or cofferdams—is done by CAD-systems. However, the determination of suitable components for sheet pile walls used for the erection of sheet pile wall sections—such as the sheet pile itself, connectors for connecting sheet piles, beams and so on—is done by hand. For this purpose the suppliers provide the companies responsible for the planning of the sheet pile wall sections with brochures, lists and handbooks, in which the different components and their technical characteristics are listed.

However, as it is obvious, there is an unbelievably large number of different components for sheet pile walls, due to the large number of suppliers and the even greater number of different types of components for sheet pile walls, such as: Larssen sheet piles, Hoesch sheet piles, flat sheet piles, T-beams, double-T-beams, Peiner-beams, pales, and connectors, used for connecting the different types of sheet piles, beams and so on. Furthermore, each type of sheet pile and beam is offered in a large range of different dimensions, dependent upon the respective purpose each sheet pile wall is to be used for.

Due to the large variety of the sheet pile wall components, the civil engineer who has to plan the sheet pile wall section is able to find only a few of the components which could be used.

SUMMARY OF THE INVENTION

The objective to be achieved by the present invention is to provide a method whereby the determination of suitable components for the layout of sheet pile wall sections and/or suitable layouts, compared to the above-described way of determining suitable components and layouts, is made much easier.

This objective, as well as other objectives which will become apparent from the discussion that follows, are achieved, according to the present invention by a method which comprises the steps of: (a) entering at least two constructional parameters of the sheet pile wall section, via the user-oriented network, into the computer system, within which various data of components for the layout of a sheet pile wall section, data of layouts for sheet pile wall sections, and technical characteristics of the components and the layouts are stored in a database of the computer system; (b) determining at least one suitable component and/or at least one suitable layout, via the computer system, on the basis of the entered construction parameters and the technical characteristics stored in the database; and (c) providing the user with the data of the component and/or layout determined in step (b) and the technical characteristics of the determined component and/or the layout, via the user-oriented network.

According to the invention, it is proposed that a user-oriented network be used—in particular, the Internet—to provide user planning sheet pile wall sections with relevant information and data of wall components and even layouts. One example is a civil engineer who can be offered a large number of different types of components and their dimensions for

layouts of sheet pile wall sections, as well as their different suppliers. Due to the fact that a user oriented network is used, the user has the possibility to easily get all the information needed when planning sheet pile wall sections. In particular the use of the computer system makes it easily possible to provide the user with all different types of components and their different dimensions, offered by different suppliers. The user has only to enter the user oriented network, which can be access-limited via passwords, and inputs his constructional parameters. For example, the user could input: an estimated maximum load acting on the sheet pile wall section; the length of the sheet pile wall section; the axial length of the component; or other specifics of the sheet pile wall section he is planning. Based on both the entered constructional parameters and the stored technical characteristics of the components, the computer system then determines at least one suitable component and/or a suitable layout of a sheet pile wall section and provides the user with at least technical characteristics and, if necessary, other technical information (for example, a suitable layout). Thus, the invention enables a user who is planning a sheet pile wall installation to very easily ascertain what type of component or layout is suitable for his specific constructional work.

Further versions and embodiments of the present method can be taken from the following specification, sub-claims and figures.

In a preferred embodiment of the method according to the invention, it is proposed to determine that component or layout as being suitable in step (b) which has a sufficient strength and/or the lowest total weight compared to the other components or layouts stored in the database. Due to the transportation and material costs—as well as the equipment which must be used for erecting the sheet pile walls—the weight of the components of the sheet pile walls is one of the main characteristics which is important for the determination of the appropriateness of a component. The most suitable component has both the lowest weight and a sufficient section modulus over its lifespan.

Since users frequently have different prerequisites in establishing which type of component or layout is suitable for their respective problem, it is suggested, in a further embodiment of the method, that the user should have the possibility to select between different determination tools in step (a) before entering the constructional parameters.

In one preferred embodiment of the present invention, it is proposed that one of the selectable tools is a wall tool for determining a suitable sheet pile component for a wall section. After selecting the wall tool, the user may enter in step (a) the length of the sheet pile wall section, the axial length of the sheet pile to be used, and the minimum section modulus of the component, all of which are to be used as constructional parameters. As a result, the user is provided with data of at least one suitable component.

In a preferred version of this embodiment, the determination in step (b) is carried out by determining, from the components stored in the database, which component, or combination of components, will lead to the lowest total weight of the sheet pile wall section having said predetermined length, as entered in step (a).

As a further result of the wall tool: the number of components to be driven or set into the ground and the total weight of the sheet pile wall section are both provided to the user. Based on this data, the user is able to design the most efficient arrangement or layout of the planned sheet pile wall section.

Additionally, it is proposed to supplement the information sent to the user in step (c) with a layout of the wall section using the suggested components.

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Another of the selectable tools is preferably a layout tool for determining a suitable cofferdam layout, the components of which are sheet piles and sheet pile connectors. After selecting the layout tool, the user, as in step (a), only has to enter the length and width of a cofferdam layout, plus the sheet pile to be used as constructional parameters. The computer system then determines at least one suitable layout for the cofferdam and provides the user with data in step (c) as to the suitable layout for the cofferdam.

The determination in the layout tool is preferably done by determining in step (b) between the data of different cofferdam layouts stored in the database as technical characteristics. The most suitable cofferdam layout is preferably determined as the one with sufficient strength and lowest total weight compared to the other cofferdam layouts.

Furthermore, it is suggested that the solution determined by the layout tool and provided in step (c) also comprise the number of sheet piles and sheet pile connectors to be driven or set into the ground, as well as the total weight of the cofferdam.

Another selectable tool is a piling designation tool for determining the number of components necessary for erecting a sheet pile wall section. With this tool the user already knows the type of component he wants to use. When selecting the piling designation tool, the user only has to enter, in step (a), the type of component(s) to be used, the length of the sheet pile wall section, and the length(s) of the component(s) as constructional parameters. In step (c) as a result, the user is provided with the data of the selected component(s), the number of the components necessary for erecting the sheet pile wall section, and the total weight of the sheet pile wall section.

In addition a selectable tool suggested in a preferred embodiment is the corrosion tool. Using this tool it is possible to determine the resistance of corrosion of a sheet pile wall layout. When selecting the corrosion tool, the user must enter, in step (a), at least two of the following constructional parameters: information with respect to the installation environment; and/or the required lifespan of the sheet pile wall; and/or the minimum section modulus; and/or the type of component to be used. Depending on the entered constructional parameters, the user may be provided in step (c) with: data of at least one suitable component; and/or data relating to the installation environment; and/or the lifespan of the component.

The determination is preferably based on the following: corrosion data related to the installation environment; data relating to the corrosion rate of different components for sheet pile walls; and data relating to the reduction of section modulus caused by corrosion. Based on both this corrosion data and the constructional parameters in step (a) of the corrosion tool, a suitable component is determined.

Furthermore, it is helpful for a user to know the sectional modulus of a suitable component. For this purpose, in an additional preferred embodiment of the method according to the invention, a section modulus tool is selectable for determining the section modulus of a suitable component. When selecting this tool, in step (a) the user must enter the following as constructional parameters: the loads acting on the sheet pile wall section; the maximum lifespan; and/or the installation environment. In step (c) as result, the user is provided with the data of at least one suitable component, its section modulus, and its technical characteristics.

The determination of the suitable component is preferably based on technical characteristics, wherein the technical characteristics comprise the maximum moment of resistance of the component and the yield point of the material of the component stored in the database. The section modulus is then calculated by the formula:

$$S_{min}=M_{max}/0.65F_y$$

wherein S_{min} is the minimum allowable section modulus, M_{max} is the maximum moment of resistance of the component, and F_y is the yield point of the material of the component. After the calculation of different section modulus values of different components, that component is determined as being the suitable component which has a sufficient minimum allowable section modulus and the lowest weight compared to the other components.

Since the users are also interested in learning what type of equipment can be used for ramming or vibrating the components of the sheet pile wall sections into the ground, technical characteristics and data of such devices are stored in the database. Based on the data and technical characteristics of the component or layout determined in step (b), and based on the technical characteristics and data of said different devices, at least one of these devices is determined as being suitable. The technical characteristics and data of the suitable equipment are then provided to the user.

In order to determine the suitable equipment, the data of the component or the layout to be installed preferably include data with respect to the installation environment, the weight of the individual component to be installed, and the surface area of the component. The data of the devices should include the weight of the individual device (e.g., vibration hammers and clamps). For determining a suitable device, in particular a vibrator, the pull at the crane hook is calculated by the formula:

$$P_{pull}=(W_V+W_R)\times 9.81+0.1\times(R_M\times F)$$

wherein P_{pull} is the pull at the crane hook, W_V is the weight of the device, W_R is the weight of the component to be installed, R_M is a surface friction value, and F is the surface area of the component to be installed. The device having the lowest pull is determined as being the suitable device. The user can then directly contact (via a link, for example) the particular company offering the determined device for sale or rent.

Additionally, in the method according to the present invention, it is suggested that the component's CAD-data (for example a DWG- or a DXF-file) and technical characteristics, at the least, are provided for download by the user via the user-oriented network.

After the determination of the component(s) or the layout in step (c), it is also suggested, in a preferred embodiment of the method, that the user can get information data via the user-oriented network about a suitable supplier, wherein the data comprises information about the producer, stocks, rolling plants, and/or the actual prices of the components.

Data with respect to the producer can, for example, include where the product is made and under what terms and tolerances it is delivered. Data with respect to the stock can, for example, include the amount and location of stocks of this particular component. Further, the user can be informed about the exact lengths of available components and would even be able to actually order from this particular stock, or else make a binding offer to purchase the product. Data with respect to the rolling plant can comprise rolling schedules of the plants and the ability to actually go in and book an order from a specific rolling. It is also possible to get information about used sheet pile wall components.

The method according to the present invention can be provided with all, or only a few, of the above-mentioned different tools.

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For a full understanding of the present invention, reference should now be made to the following detailed description of the preferred embodiments of the invention as illustrated in the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** shows a block diagram of the different tools used in a preferred embodiment of the method according to the present invention;

FIG. **2** shows the input mask of a wall tool window;

FIG. **3** shows the result window of the wall tool;

FIG. **4** shows the information window of a specific component determined by the wall tool;

FIG. **5** shows the input mask of a layout tool window;

FIG. **6** shows the result window of the layout tool;

FIG. **7** shows the information window of a specific sheet pile used in the layout shown in the result window of the layout tool;

FIG. **8** shows the input mask of a piling designation tool window;

FIG. **9** shows the result window of the piling designation tool;

FIG. **10** shows the information window of a specific sheet pile determined by the piling designation tool;

FIG. **11** shows an example of a help window, informing the user of a definition of a specific technical characteristic;

FIG. **12** shows the input mask of a corrosion tool window;

FIG. **13** shows the result window depicting the result determined by the corrosion tool;

FIG. **14** shows the input mask of a section modulus tool window;

FIG. **15** shows the result window depicting the result determined by the section modulus tool;

FIG. **16** shows the input mask of a supplier tool;

FIG. **17** shows the input mask of an equipment tool; and

FIG. **18** shows the result window of the equipment tool.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiments of the present invention will now be described with reference to FIGS. **1-18** of the drawings. Identical elements in the various figures are designated with the same reference numerals.

FIG. **1** shows a block diagram of a program which works according to a preferred embodiment of the method according to the present invention. The program has a main routine which controls subroutines of different tools used in the method. The program is stored in the memory of a computer system. Additionally, the memory of the computer system is separated into several database sections in which technical characteristics of different components for sheet pile walls and data of the components are stored.

For example, the database includes technical characteristics of different dimensions and different sheet pile types, such as Larssen sheet piles, Hoesch sheet piles or flat sheet piles. Also, the technical characteristics of a large number of different connectors for connecting the sheet piles with each other—as well as technical data of beams such as double-T-beams, T-beams, pales or Peiner-beams—are stored in the database. Additionally, different basic layouts for sheet pile wall sections, such as cofferdams, and their technical characteristics are stored in the database

The computer system is connected to a user-oriented network. In the present embodiment, the computer network is accessed via the Internet, so that the user can enter the program without any restrictions. However, the program can also be used in an intranet version with a restricted access just for the users.

When activated, the program opens the main routine, and a starting mask is opened called "sheet piling tools." Afterwards, the user has the ability to select between five subroutines defining the five following working tools: a wall tool, a layout tool, a piling designation tool, a corrosion tool, and a section modulus tool.

Additionally, an information tool and a help tool are provided which can be activated by the user when he works in one of the above-mentioned five working tools. The information tool gives further information with respect to a specific component or layout of the results received via the respective working tool. The help tool gives additional information with respect to specific topics and terms.

After one of the five working tools has been activated, a result is provided to the user. The user then has the choice of using the result received by one of the working tools in two support tools, namely an equipment tool and a supplier tool.

In the following, the functions of the different tools will be explained in detail; it must be emphasized, however, that the design and the function of the different tools is not restricted to the present embodiment.

At first the user must decide whether he wants to work with the program using metric or imperial dimensions. Next, the user is able to select between the different tools.

In FIG. **2** the input mask of the wall tool is shown. When the user activates the wall tool,—by a click or a shortcut, for example,—the input mask of the wall tool shown in FIG. **2** pops up as new window. In the input mask of the wall tool, the user is then able to insert different constructional parameters of a proposed sheet pile wall layout into the system. In the present example, the user is asked to insert the following data: the wall length of the entire sheet pile wall section; the axial length of the component of the sheet pile wall, namely the axial length of the sheet pile itself; and a minimum value for the section modulus of the sheet pile.

Afterwards, he activates the calculate button. The wall tool determines a suitable sheet pile as the component and the compatible number of sheet piles necessary to erect the wall section. The determination is based on the technical characteristics of the different sheet pile components stored in the database, in particular the section modulus and the weight of the components. Next, six sheet piles are determined which have a sufficient section modulus as well as the lowest weights when erected to the sheet pile wall.

After the determination is completed, the result is depicted in a result window, called a "wall tool solution" (**1**). In FIG. **3** such a result window is shown. In this result window the name of the component that is the most efficient solution by weight is given. Additional technical characteristics of the component are shown: for example, the section modulus of the component, the wall length and the weight. In addition, a table of five further alternative components is displayed. The user then is able to activate the information tool by clicking on the name of the component. An information window pops up, an example of which is shown in FIG. **4**.

In this information window all relevant technical characteristics of the proposed wall solution are depicted, including: the name of the component; how many components have to be used; if necessary, which type of additional connectors have to be used; and the total weight of the proposed solution. In the present solution depicted in FIG. **4**, a combi-wall is proposed under the name PZC-B 34. The combi-wall is a combination of regular double-T-beams (called W30X108) and two sheet piles (named PZC **13**). For connecting the double-

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T-beams with the sheet piles, the use of a BBS-M and a BBS-F connector is suggested. For additional data, the user is then able to download DWG-files, print the solution, request an e-mail data-sheet, ask for engineering help, request a quote, or ask for further information. Buttons for these different functions are also depicted in the result window.

The next tool which can be activated by the user is the lay-out tool. If the user activates this tool, the input mask shown in FIG. **5** pops up. The user must then insert clear dimensions of a cofferdam—meaning, the length of the cofferdam in x direction and the length of the cofferdam in y di-rection—as constructional parameters. Additionally, the user has to insert at least one appropriate piling designation—for example, PZC **13**, PZC **14** and so on. If the user is not sure which type of piling designation he should choose, he can click on the name of the respective piling designation and an information window pops up, comparable to the information window shown in FIG. **4**.

After the different constructional parameters and the piling designation have been inserted, the layout tool determines the most efficient solution by weight by comparing the different sheet piles and basic layouts stored in the database. When the determination is finished, a result window pops up, showing the proposed solution. Such a result window is shown in FIG. **6** The proposed solution depicts the number of sheet piles and connectors to be used, and it also depicts the basic layout of the cofferdam.

The user is then able to print the solution, request a quote or seek engineering help. Additionally, the user can activate an information window by clicking on one of the names of the sheet pile or the connector, and an information window pops up. In FIG. **7** such an information window is shown. In this information window a detailed specification of the technical characteristics of the component—as well as information with respect to the usable connectors, such as the PZ 90, the Colt, the Cobra, the PZ Tee, the Joker, the Bullhead or the CBF—are shown. Also, DWG-files of the different components can be downloaded.

FIG. **8** shows the input mask of the piling designation tool. When the input mask for the piling designation tool is activated, the user must first decide which type of sheet pile or combi-wall section he wants to use. Thus, the basic technical characteristics are shown in a table for his consideration. After clicking on the selected sheet pile, a calculation window pops up, which is shown in FIG. **9**. In the calculation window a selected combi-wall section is depicted with a detailed specification of the technical characteristics. Also, a calculation area is depicted in which the user has to input the wall length, the beam length and the sheet length of the components of the depicted combi-wall. After activating the calculation button, the piling designation tool calculates the most efficient solution by weight. Next, a result window pops up (see FIG. **10**), comparable to the result window shown in FIG. **4**.

Sometimes the user is not sure what a specific term means. If this is the case, he has the option of activating a help tool to get a definition of the particular term. As an example, in the detailed specification of the result window shown in FIG. **9**, the user can activate the respective term, which, in this case, is "flexibility." After clicking on the term, a help window pops up (cf. FIG. **11**) in which a definition of the term flexibility is given.

A further tool is the so-called corrosion tool. If the user wants to know, for example, how long a sheet pile wall will last under a specific installation environment, he can find out by activating the corrosion tool. Once he does so, the input mask of the corrosion tool pops up, which is shown in FIG. **12**. The user may then select between different installation environments, such as open air, soil, fresh water or salt water. He may also differentiate in the respective main group. In the shown example the user has selected the characteristic "soil in an industrial area." Next, he can define the required lifespan of the wall and/or the minimum of the section modulus at the end of the lifespan.

In the following a table shows the coherency between corrosion under different installation environments and the loss of section modulus due to corrosion of a specific sheet pile:

	Loss of section modulus years				
Installation environment	5	10	15	20	25
open air					
a) normal	1290	1240	1260	1225	1190
b) near the ocean	1280	1220	1190	1125	1085
Soil					
a) undisturbed natural	1300	1270	1220	1200	1120
b) disturbed natural	1280	1250	1085	1140	975
c) aggressive natural	1275	1190	1035	1020	940
d) fills	1278	1230	1078	1050	1000
e) aggressive fills	1260	1055	940	785	690
fresh water					
a) common - rivers, canals	1250	1245	1180	1165	1125
b) polluted	1270	1195	1040	965	840
salt water					
a) splash zone	1250	1200	1035	1010	925
b) zone of immersion	1270	1020	880	685	480

Based on technical characteristics and corrosion tables which are stored in the database of the computer system (see the above example), a result window pops up (as shown in FIG. **13**) in which five different possible solutions are depicted along with the default of section modulus, the corroded section modulus in 10 years, and the remaining weight. Also in this result window, as in the other result windows, the user can receive more information about the respective component by simply clicking on the name of the component in the list.

In some cases, the user may want to know something about a necessary section modulus based on the loads acting on the component, the maximum lifespan, and the installation environment. For this purpose a section modulus tool is provided. When activated, an input mask pops up (as shown in FIG. **14**) in which the user can insert both the loads and the maximum lifespan. He can also define the installation environment. Afterwards, based on technical characteristics stored in the database, the section modulus tool determines a suitable component, wherein the technical characteristics comprise the component's maximum moment of resistance and its yield point of the material. Thus, the section modulus is calculated by the formula:

$$S_{min}=M_{max}/0.65F_y$$

In the above formula S_{min} is the minimum allowable section modulus, M_{max} is the maximum moment of resistance of the component, and F_y is the yield point of the material of the component. That component is determined as being suitable if it has both a sufficient minimum allowable section modulus and the lowest weight compared to the other sheet pile components.

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After the determination of the suitable component, a result window pops up (as it is shown in FIG. **15**) in which five solutions are depicted. Also in this result window, the user can get further information by clicking on the name of the respective component.

Having determined suitable components, the user is able to search for a supplier of piling designations and connectors. For this purpose he can activate the supplier tool. The user can receive information with respect to a producer or supplier, a stock, a rolling plant, prices, or even check the availability of used sheet pile wall components. The user is then able to directly order the determined components.

If the user also wants to know something about suitable equipment—e.g., a vibrator or a ram for erecting the sheet pile wall section—he can use the equipment tool. When the equipment tool is activated, an input mask pops up (as depicted in FIG. **17**). In this input mask the user inserts the piling designation and the installation environment. Based on these constructional parameters, the technical characteristics of the selected component, (the weight and surface area of the component to be installed, which are already included in the computer system's database), and the data of the devices, including the weight of the individual device, that device is determined as being suitable which has the lowest pull at the crane hook. The pull is calculated by the formula:

$$P_{pull}=(W_V+W_R)\times 9.81+0.1\times(R_M\times F)$$

In this formula P_{pull} is the pull at the crane hook, W_V is the weight of the device, W_R is the weight of the component to be installed, R_M is a surface friction value, and F is the surface area of the component to be installed.

After the determination of suitable equipment, a result window pops up showing the technical characteristics of the equipment. Such a result window is shown in FIG. **18**. The user can then directly contact the company which offers the equipment for rent or sale.

The above described method is only a preferred embodiment. Of course, the program can also be supplemented by further tools, such as CAD-tools.

A further idea, on which the present invention is based, is the idea that all major suppliers and producers of sheet pile components (sheet piles, beams, connectors for sheet piles) and equipment for erecting sheet pile walls enter the technical characteristics of their products as data into the database of the computer system. Thus, the user has a large variety of possible products and producers.

There has thus been shown and described a novel method for planning sheet pile wall sections which fulfills all the objects and advantages sought therefor. Many changes, modifications, variations and other uses and applications of the subject invention will, however, become apparent to those skilled in the art after considering this specification and the accompanying drawings which disclose the preferred embodiments thereof. All such changes, modifications, variations and other uses and applications which do not depart from the spirit and scope of the invention are deemed to be covered by the invention, which is to be limited only by the claims which follow.

What is claimed is:

1. A method used for planning sheet pile wall sections via a user-oriented network—in particular, the Internet—in which at least technical characteristics of a suitable component for the layout of a sheet pile wall section and/or the layout of a sheet pile wall section itself is determined for the user by a computer system, said method comprising the steps of:

(a) entering at least two constructional parameters of the sheet pile wall section via the user-oriented network into the computer system, wherein in a database of the computer system data of components for the layout of a sheet pile wall section, data of layouts for sheet pile wall sections, and technical characteristics of the components and the layouts are all stored;

(b) automatically determining at least one suitable component and/or at least one suitable layout by means of the computer system on the basis of the entered construction parameters and the technical characteristics stored in the database; and

(c) providing the user with the data and technical characteristics of the component and/or layout determined in step (b) via the user-oriented network.

2. The method according to claim **1**, in which in step (b) that component or that layout is determined as being suitable which has a sufficient strength and/or the lowest total weight compared to the other components or layouts stored in the database.

3. The method according to claim **1**, in which in step (a) the user has the possibility to select between different determination tools before entering the constructional parameters.

4. The method according to claim **3**, in which one of the selectable tools is a wall tool for determining a suitable sheet pile component for a sheet pile wall section; and in which after selecting the wall tool the user has to enter as constructional parameters in step (a) the length of the sheet pile wall section, the axial length of the sheet pile to be used, and the minimum section modulus of the sheet pile to be used; and in which as a result, in step (c) the data of at least one suitable component is provided to the user.

5. The method according to claim **4**, in which, when the wall tool is selected in step (b) from the components stored in the database, that component, or that combination of components, is determined as being suitable which, compared to the other components stored in the database, leads to the lowest total weight of the sheet pile wall section having said predetermined length entered in step (a).

6. The method according to claim **4**, in which in step (c) the number of components to be driven or set into the ground and the total weight of the sheet pile wall section are provided to the user.

7. The method according to claim **4**, in which in step (c) the layout of the wall section is provided to the user.

8. The method according to claim **3**, in which one of the selectable tools is a layout tool for determining a suitable cofferdam layout, the components of which are sheet piles and sheet pile connectors; and in which after selecting the layout tool, the user has to enter as constructional parameters in step (a) the length and width of the cofferdam layout, as well as the sheet pile to be used for the cofferdam layout; and in which as a result, in step (c) the data of at least one suitable layout for a cofferdam is provided to the user.

9. The method according to claim **8**, in which, when the layout tool is selected in step (b) from the data of different cofferdam layouts stored in the database as technical characteristics, that layout for a cofferdam layout is determined as being suitable which has a sufficient strength and, compared to the other cofferdam layouts, the lowest total weight.

10. The method according to claim **8**, in which in step (c) the number of sheet piles and sheet pile connectors to be driven or set into the ground and the total weight of the cofferdam are both provided to the user.

11. The method according to claim **3**, in which one of the selectable tools is a piling designation tool for determining the number of components necessary for erecting a sheet pile

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wall section; and in which, when selecting the piling designation tool, the user has to enter in step (a) the type of component(s) to be used, the length of the sheet pile wall section, and the length(s) of the component(s) as constructional parameters; and in which as a result, in step (c) the data of the selected component(s), the number of the components necessary for erecting the sheet pile wall section, and the total weight of the sheet pile wall section are provided to the user.

12. The method according to claim **3**, in which one of the selectable tools is a corrosion tool for determining the resistance of corrosion of a sheet pile wall layout; and in which, when selecting the corrosion tool, the user has to enter in step (a) at least two constructional parameters comprising (1) information with respect to the installation environment, (2) the required lifespan, (3) the minimum section modulus, and (4) the type of component to be used as constructional parameters; and in which as a result, in step (c), the data of at least (1) one suitable component, (2) data relating to the installation environment, and (3) the lifetime of the component is provided to the user.

13. The method according to claim **12**, in which in step (b), based on corrosion data, a suitable component, prerequisites of the installation environment, a maximum lifespan for a given sectional modulus, or a minimum section modulus for a predetermined lifespan is determined, wherein the corrosion data is comprised of data relating to the installation environment, data relating to the corrosion rate of different components for sheet pile walls, and data relating to the reduction of section modulus caused by corrosion.

14. The method according to claim **3**, in which one of the selectable tools is a section modulus tool for determining the section modulus of a suitable component; and in which, when selecting the section modulus tool, the user has to enter in step (a) the loads acting on the sheet pile wall section and the maximum lifespan and/or the installation environment as constructional parameters; and in which as a result, in step (c) the data of at least one suitable component, its section modulus and its technical characteristics are provided to the user.

15. The method according to claim **14**, in which in step (b), based on technical characteristics, a suitable component is determined, wherein the technical characteristics comprise the maximum moment of resistance of the component and the yield point of the material of the component; and wherein the section modulus is calculated by the formula:

$$S_{min}=M_{max}/0.65F_y$$

wherein S_{min} is the minimum allowable section modulus, M_{max} is the maximum moment of resistance of the component, and F_y is the yield point of the material of the component; and in which that component is determined as being the suitable component which has both a sufficient minimum allowable section modulus and the lowest weight compared to the other sheet pile components.

16. The method according to claim **1**, in which in the database, technical characteristics and data of different devices for ramming or vibrating components of sheet pile walls into the ground; and in which based on the data and technical characteristics of the component or layout determined in step (b); and based on the technical characteristics and data of said different devices, at least one device is determined as being suitable, the technical characteristics and data of which are provided to the user.

17. The method according to claim **16**, in which the data of the component or the layout to be installed include data with respect to the installation environment, the weight of the individual component to be installed, and the surface area of the component to be installed; wherein the data of the devices includes the weight of the individual device; and wherein that device is being determined as suitable which has the lowest pull at the crane hook, wherein the pull is calculated by the formula:

$$P_{Pull}=(W_V+W_R)\times 981+0.1\times(R_M\times F)$$

wherein P_{Pull} is the pull at the crane hook, W_V is the weight of the device, W_R is the weight of the component to be installed, P_M is a surface friction value, and F is the surface area of the component to be installed.

18. The method according to claim **1**, in which, for at least the components, CAD-data and technical characteristics are provided for download by the user via the user-oriented network.

19. The method according to claim **1**, in which, after the determination of the component(s) or the layout in step (c), in a further step the user can get information data via the user-oriented network about a suitable supplier, wherein the information data comprises information about the producer, and/or the stock, and/or the rolling plant, and/or the price of the components.

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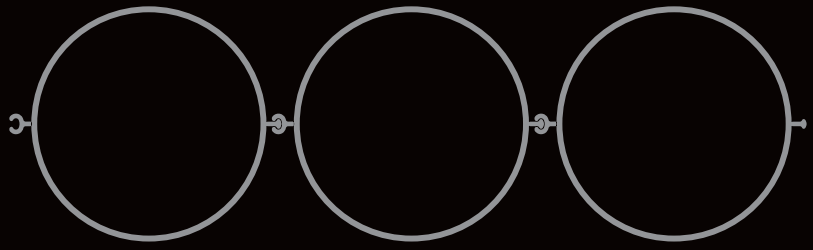

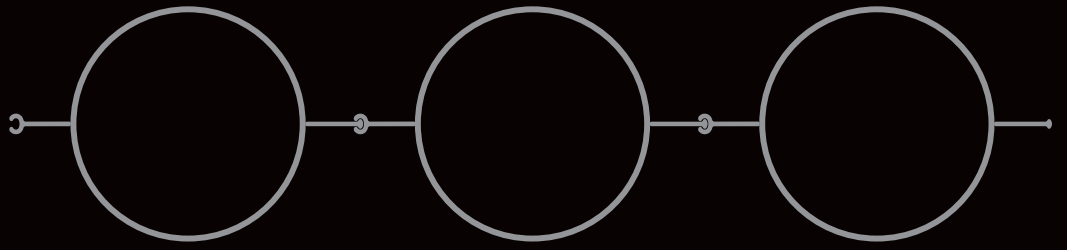

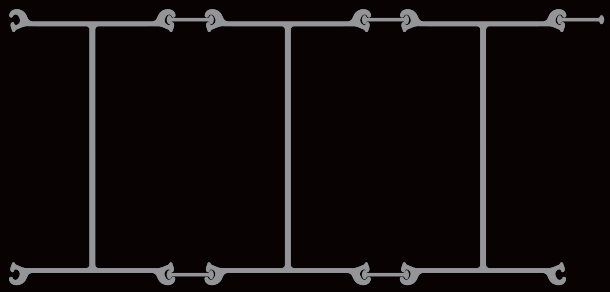

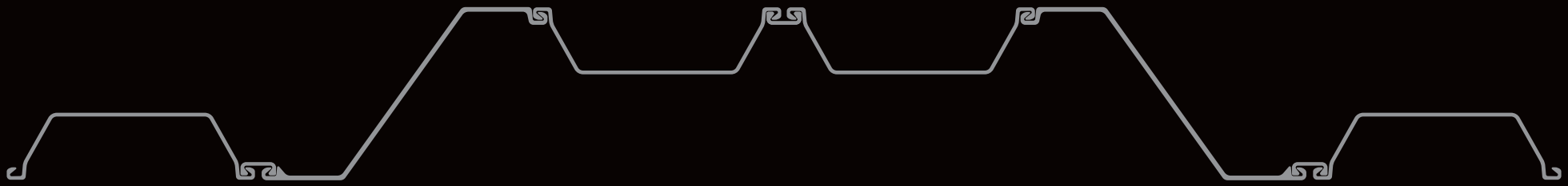

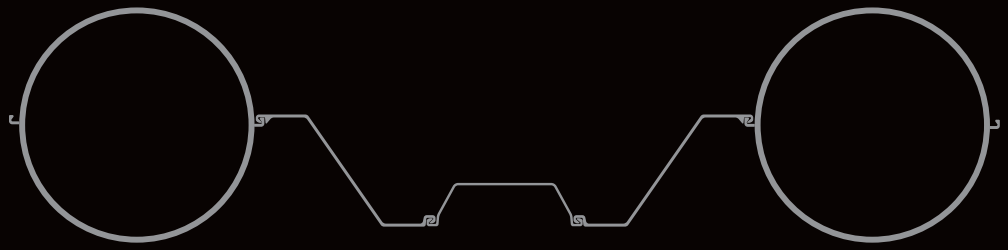

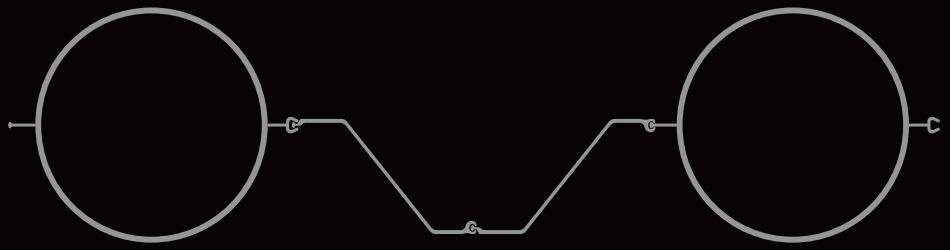

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