CERTIFICATE NUMBER AC101.6

CERTIFICATE OF APPROVAL

This is to certify that Promat Australia Pty Ltd has carried out the certification of PROMASTOP® UniCollar fire collars in accordance with the Jensen Hughes FireMark scheme rules document – ATS00 – for the certification of fire protection products in Australia. The products have also been assessed against the requirements of the specific product Technical Schedule ATS20 and are approved for use subject to the conditions outlined in this document.

Promat Australia Pty Ltd

1-17 Scotland Rd, Mile End South, SA 5031, Australia

Certified product	Technical schedule	Approved standard
PROMASTOP® UniCollar fire collars	ATS20 15 December 2025	AS 1530.4:2014 AS 4072.1:2005 (R2016)

Jensen Hughes project number: CER200014
On behalf of Jensen Hughes

DocuSigned by:
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JASON JEFFRESS
Vice President

JENSEN HUGHES FireMark

JAS-ANZ
WWW.JASANZ.ORG/REGISTER

Issue date	6 June 2022
Re-issued date	15 December 2025
Certificate valid to	6 June 2027

1.0 Introduction

This certificate of approval is for the use of PROMASTOP® UniCollar fire collars for the fire protection of various plastic pipe penetrations. The products have been assessed against the requirements of Technical Schedule ATS20 and is approved for use as a fire resisting penetration sealing system.

The detailed scope is given in the tables in the approval matrix in section 2 of this certificate. These show the approved application of the collars for uPVC, HDPE, PP, Fastflow uPVC and combinations of PPR & PEX and uPVC & HDPE pipes penetrating through various wall and floor systems protected with the PROMASTOP® UniCollar fire collars.

Fire resistance levels (FRLs) are provided in accordance with AS 1530.4 for each of the applications for the collars.

The product is approved based on satisfying the requirements in Table 1 and the factory production control (FPC) audits carried out for each location where the product is manufactured for the Australian market. The audit report has been prepared and is retained in a confidential file by Jensen Hughes. General details are provided in Table 2.

This approval relates to the ongoing production of PROMASTOP® UniCollar fire collars. The product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the Jensen Hughes FireMark name or the Jensen Hughes FireMark name and mark – together with the Jensen Hughes FireMark certificate number and application where appropriate. The product is only deemed certified if it carries these details. Further details of product installation can be provided as applicable.

All other products identified in this report are not the focus of this certification and should not be considered as having product certification.

All work and services carried out by Jensen Hughes are subject to and conducted in accordance with our standard terms and conditions. These are available on request.

Table 1 Basis of evidence

Evidence	Comments
Evidence of relevant testing provided.	See Appendix A
Testing carried out within the last 5 years to validate ongoing quality and performance of the product	Yes
Independent sampling of tested product for traceability	Yes
Batch number confirmed	Yes
The deemed-to-satisfy requirements of technical schedule met	Yes
The manufacturing facilities accredited to ISO 9001:2015	Yes

Table 2 FPC audit report

Item	Detail
Audit company	Jensen Hughes

Item	Detail
Audit objectives	The objective of the audit is to: + determine the conformity of the client's management system, or parts of it, with audit criteria + determine the ability of the management system to ensure the client meets applicable contractual requirements + determine the effectiveness of the management system to ensure the client can reasonably expect to achieve their specified objectives + determine adequate process control of product manufacturing + as applicable, identify areas for potential improvement in the management system.
Date of inspection	10 September 2024
Outcome	The audit satisfied the requirements of the Jensen Hughes FireMark scheme.

2.0 *Formal scope of product certification*

General product description

PROMASTOP® UniCollar® is an intumescent device designed to maintain the integrity of the fire resistant elements through which various plastic pipes pass. It is suitable for retrofit installation in various floors and walls similar to that in which it has been tested. In the event of a fire, the intumescent material in the PROMASTOP® UniCollar® rapidly expands, closing off the plastic pipe or combustible insulation and forming an insulating barrier.

A representative image of the product is shown here.

General requirements

+ Pipes may be located as close as 40 mm collar-to-collar.
+ Pipes must be supported at 500 mm and 1500 mm from the support element.
+ The following field of application is applicable based on the tested pipe end configurations as given in Table 3 for combustible pipes in accordance with BN EN 1366-3:2021.

Table 3 Field of application for pipe end configurations for combustible pipes

Tested					
		U/U	C/U	U/C	C/C
Covered	U/U	Y	N	N	N
	C/U	Y	Y	N	N
	U/C	Y	Y	Y	N
	C/C	Y	Y	Y	Y
Y = acceptable, N = not acceptable					

Approval matrix for floor systems

Table 4 HDPE pipes penetrating concrete floor slab protected by one PROMASTOP® UniCollar on the exposed face

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL		
						Minimum separating element thickness*		
						120 mm	150 mm	175 mm
40	3.5	UC40	Promaseal A acrylic sealant	Up to 8 mm	F91793 FSP0785	-/120/120	-/180/180	-/240/180
56	3.5	UC56			F9179	-/120/120	-/180/180	-/240/180
63	3.0	UC63			FSP0785	-/120/120	-/180/180	-/240/180
75	4.0	UC75			F91793	-/120/120	-/180/180	-/240/180
90	3.5	UC90			FSP0785	-/120/120	-/180/180	-/240/180
110	5.0	UC110			F91793 F91810A	-/120/120	-/180/180	-/240/180
125	4.9	UC125			F91797A	-/120/90	-/120/90	-/120/90
150	6.2	UC150			FSP0785	-/120/90	-/180/90	-/180/90
150***	6.2	UC150			FSP0785	-/120/120	-/180/180	-/240/180
200	6.2	UC200			F91872	-/45/45	-/45/45	-/45/45
200**	6.2	UC200			F91872 FRT210441	-/45/45	-/45/45	-/45/45

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

The pipe end condition must be as outlined in **Error! Reference source not found..

*** The service is capable to achieve the described FRL when protected by only one PROMASTOP® UniCollars, fitted on the exposed side.

Table 5 uPVC pipes penetrating concrete floor slab protected by one UniCollar on the exposed face

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap***	Sealant as used in test	FRL			
						Minimum separating element thickness*			
						120 mm	150 mm	175 mm	120 mm**
40	2.2	UC40	Promaseal A acrylic sealant	Up to 8 mm	FSP0786 A-21-058	-/120/120	-/180/180	-/240/180	-/120/120
50	2.7	UC50			F91810A F91810A A-21-058	-/120/120	-/180/180	-/240/180	-/120/120
65	2.8	UC65			F91810A A-21-058	-/120/120	-/120/120	-/120/120	-/120/120
80	3.2	UC80			F91810A A-21-058	-/120/120	-/120/120	-/120/120	-/120/120
100	3.2	UC100			F91872 F91789 F91810A A-21-058	-/120/120	-/120/120	-/120/120	-/120/120
150	4.2	UC150			F91872	-/120/120	-/180/120	-/180/120	-

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

** The FRL is for the penetration with a pipe joiner fitting included within the collar.

*** The annular gap must be filled with cement mortar mix for gaps larger than 8 mm.

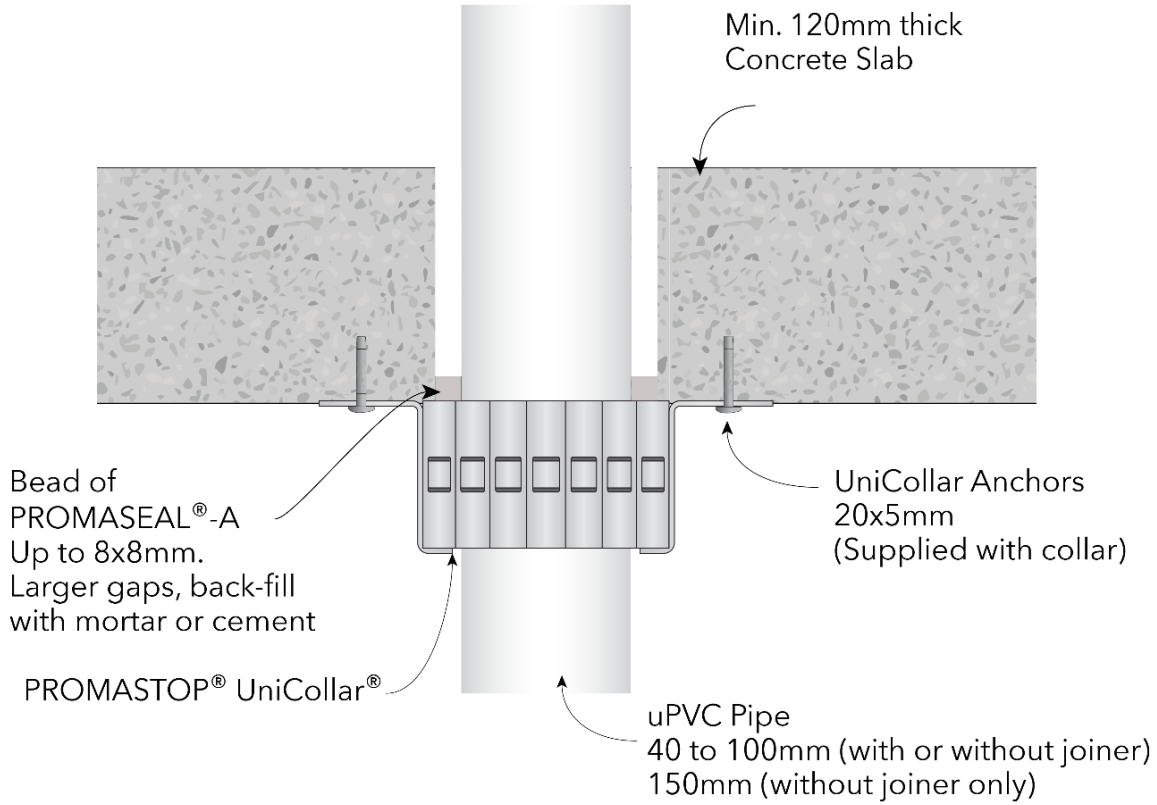

Figure 1 Cross sectional view of uPVC pipe penetrating 120 mm thick concrete slab protected by PROMASTOP® UniCollar®

Table 6 uPVC pipes penetrating a 2 hour fire rated plasterboard partition with double layer of 13 mm fire rated plasterboard protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	2.4	UC40	Promaseal A acrylic sealant	Up to 5 mm	A-21-060 FP 6114 A-15-977	-/120/120
50	2.5	UC50			A-21-060 A-22-005	-/120/120
65	3.0	UC65			A-21-060	-/120/120
80	3.2	UC80			A-21-060 A-22-005	-/120/120
100	3.7	UC100			A-21-060 A-22-005	-/120/120
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory						

Table 7 uPVC pipes penetrating a 128 mm thick fire rated plasterboard partition with double layer of 16 mm fire rated plasterboard protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
150	4.2	UC150	Promaseal A acrylic sealant	Up to 2 mm	F91873	-/120/90
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory						

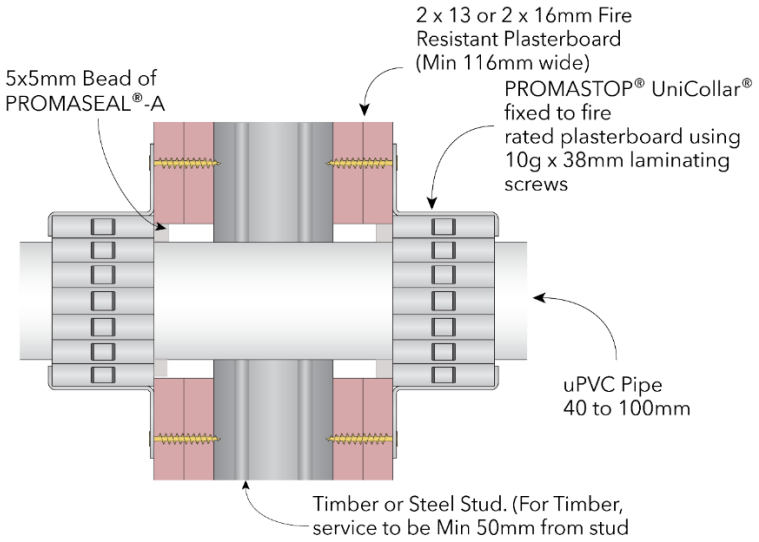

Figure 2 Cross sectional view of uPVC pipe penetrating 2hr plasterboard wall protected by PROMASTOP® UniCollar® on either side of the wall

Table 8 uPVC pipes penetrating a 116 mm thick plasterboard wall system with single layer of minimum 13 mm thick fire rated plasterboard protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	2.2	UC40	Promaseal A acrylic sealant	Up to 5 mm	FP 6114	-/60/60
50	2.7	UC50				-/60/60
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory						

Table 9 uPVC pipes penetrating a 90 mm thick plasterboard wall system with single layer of minimum 13 mm thick fire rated plasterboard protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	2.6	UC40	Promaseal A acrylic sealant	Up to 5 mm	A-14-916, 148042	-/60/60
50	4.0	UC50			A-14-901B 148042	-/60/60
65**	3	UC65			A-24-002 A-24-001 148042	-/60/60
80	3.2	UC80			A-24-001 148042	-/60/60
100	4.02	UC100			A-14-916 148042	-/60/60
150	-	UC150			148042	-/60/60***

Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs.

*FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory

** The collar must be fixed to the wall using three UniCollar clips instead of two.

*** The assigned FRL is achievable with 13 mm thick plasterboard patch on the separating element. The patch shall cover a distance of minimum 100 mm from the perimeter of penetration

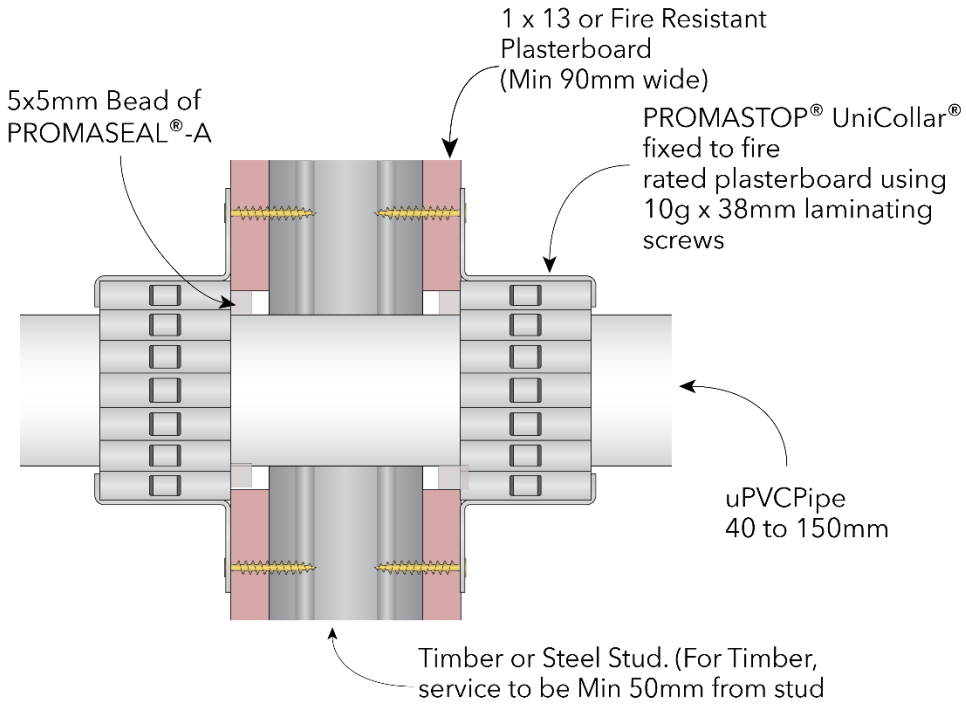

Figure 3 Cross sectional view of uPVC pipe penetrating 1hr plasterboard wall protected by PROMASTOP® UniCollar® on either side of the wall

Table 10 HDPE pipes penetrating concrete floor slab protected by one PROMASTOP® UniCollar on the exposed face

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL		
						Minimum separating element thickness*		
						120 mm	150 mm	175 mm
40	3.5	UC40	Promaseal A acrylic sealant	Up to 8 mm	F91793 FSP0785	-/120/120	-/180/180	-/240/180
56	3.5	UC56			F91793	-/120/120	-/180/180	-/240/180
63	3.0	UC63			FSP0785	-/120/120	-/180/180	-/240/180
75	4.0	UC75			F91793	-/120/120	-/180/180	-/240/180
90	3.5	UC90			FSP0785	-/120/120	-/180/180	-/240/180
110	5.0	UC110			F91793	-/120/120	-/180/180	-/240/180
125	4.9	UC125			F91797A	-/120/90	-/120/90	-/120/90
150	6.2	UC150			FSP0785	-/120/90	-/180/90	-/180/90
150***	6.2	UC150			FSP0785	-/120/120	-/180/180	-/240/180
200	6.2	UC200			F91872	-/45/45	-/45/45	-/45/45
200**	6.2	UC200			FRT210441	-/45/45	-/45/45	-/45/45

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

**The pipe must be capped on both exposed and unexposed sides.

***The service must be protected by two PROMASTOP® UniCollars, both fitted on the exposed side.

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL		
						Minimum separating element thickness*		
						120 mm	150 mm	175 mm

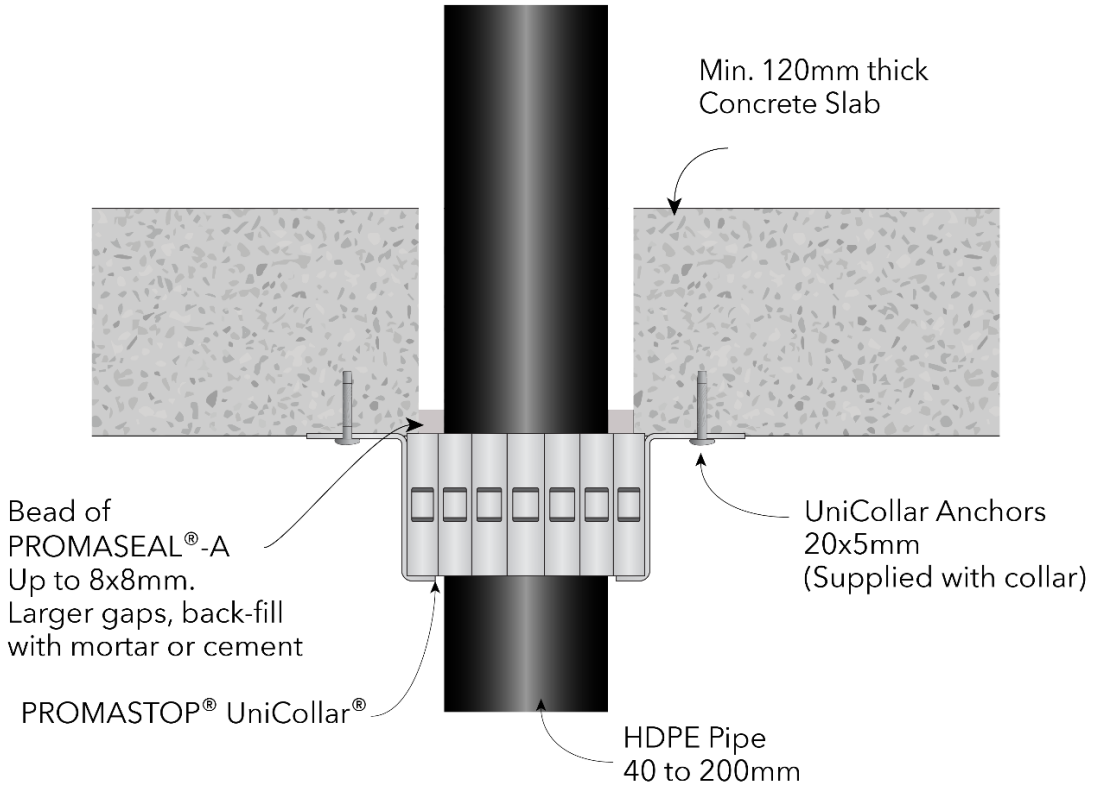

Figure 4 Cross sectional view of HDPE pipe penetrating concrete slab protected by PROMASTOP® UniCollar® on the exposed site.

Table 11 HDPE pipes penetrating a 2 hour fire rated plasterboard partition protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	3.0	UC40	Promaseal A acrylic sealant	Up to 5 mm	FSP0785	-/180/180
50	3.0	UC50			FSP0785	-/240/180
63	3.0	UC63			FSP0785	-/180/180
90	3.5	UC90			FSP0785	-/240/180
110**	5.0	UC110			F91810A	-/120/120
200	8.5	UC200			FRT210440	-/30/30

Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs.
* FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory.
** The penetration must be protected by only one UniCollar on the exposed side.

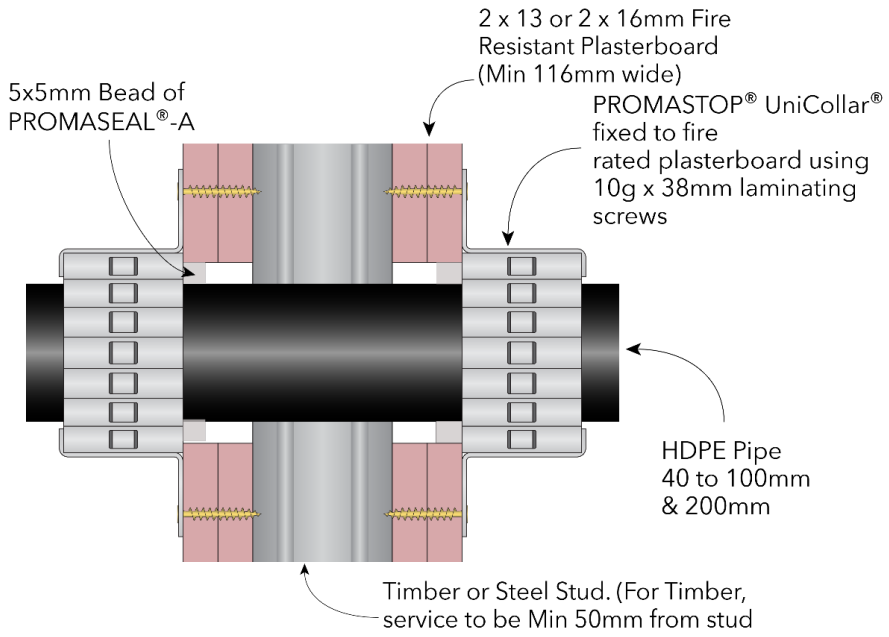

Figure 5 Cross sectional view of HDPE pipe penetrating plasterboard wall protected by PROMASTOP® UniCollar® on either site.

Table 12 HDPE pipes penetrating a 1 hour fire rated plasterboard partition protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	3.0	UC40	Promaseal A acrylic sealant	Up to 5 mm	148042	-/60/60
56	3.0	UC50			A-24-017	-/60/60

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
63**	3.0	UC63			A-24-017	-/60/60
75	3.5	UC90			A-24-024-2	-/60/60
100	5.0	UC110			A-24-009B	-/60/60***
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory. **The collar must be fixed to the wall using three UniCollar clips instead of two. *** The assigned FRL is achievable with 13 mm thick plasterboard patch on both faces. The patch shall cover a distance of minimum 250 mm from the perimeter of penetration						

Table 13 PEX-a pipes penetrating a 128 mm thick fire rated plasterboard partition with double layer of 16 mm fire rated plasterboard protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	5.5	UC40	Promaseal AN acrylic sealant	Up to 1.5 mm	2257300	-/180/120
50	6.9	UC50	Promaseal AN acrylic sealant	Up to 2 mm	2257300	-/180/120
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory						

Table 14 PEX-a pipes penetrating a concrete floor slab protected by one PROMASTOP® UniCollar on the exposed side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL		
						Minimum separating element thickness*		
						120 mm	150 mm	175 mm
40	3.5	UC40	Promaseal AN acrylic sealant	Up to 1.5 mm	2257301	-/120/120	-/180/180	-/240/180

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

**The pipe must be capped on both exposed side.

***The service must be protected by two PROMASTOP® UniCollars, both fitted on the exposed side.

Table 15 RAUTITAN XLPE pipes penetrating a concrete floor slab protected by one PROMASTOP® UniCollar on the exposed side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL		
						Minimum separating element thickness*		
						120 mm	150 mm	175 mm
63	8.7	UC63	Promaseal acrylic sealant	Up to 2.5 mm	40907a	-/120/120	-/180/120	-/180/120
75	8.4	UC75	Promaseal acrylic sealant	Up to 2.5 mm	40907a	-/120/120	-/120/120	-/120/120
110	12.3	UC110	Promaseal acrylic sealant	Up to 2.5 mm	40907a	-/120/120	-/120/120	-/120/120

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

**The pipe must be capped on both exposed side.

***The service must be protected by two PROMASTOP® UniCollars, both fitted on the exposed side.

Table 16 RAUTITAN XLPE pipes penetrating a 128 mm thick insulated plasterboard partition protected by one PROMASTOP® UniCollar on both sides

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL
50	6.9	UC50	Promaseal acrylic sealant	Up to 2 mm	40908a	-/120/120
63	8.7	UC63	Promaseal acrylic sealant	Up to 2 mm	40908a	-/120/120
90	10.1	UC90	Promaseal acrylic sealant	Up to 2 mm	40908a	-/120/120
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory ** The wall cavity must be infilled with Rockwool Fibertex 350 insulation of density 60 kg/m3.						

Table 17 HDPE pipes penetrating a 128 mm thick insulated plasterboard partition protected by one PROMASTOP® UniCollar on both sides

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL
56	3	UC56	Promaseal acrylic sealant	Up to 2 mm	40908a	-/120/120
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. * FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory ** The wall cavity must be infilled with Rockwool Fibertex 350 insulation of density 60 kg/m^3.						

Table 18 FASTFLOW uPVC pipes in a double layer of 16 mm thick fire rated plasterboard wall system protected by one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	UC40	Promaseal A acrylic sealant	Up to 5 mm	FSRG201644	-/120/120
50	UC50				-/120/120

Nom. pipe size (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
65	UC65				-/120/120
110	UC110				-/120/120
125	UC125				-/120/120

Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs.
*FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory

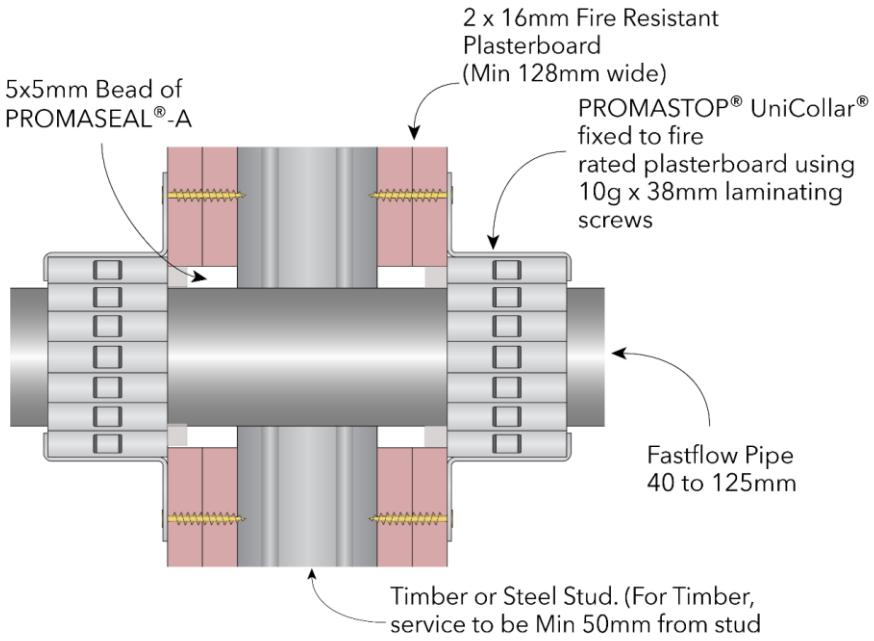

Figure 6 Cross sectional view of Fastflow pipe penetrating plasterboard wall protected by PROMASTOP® UniCollar® on either side.

Table 19 FASTFLOW uPVC pipes in a 150 mm thick concrete slab protected by one PROMASTOP® UniCollar on exposed side

Nom. pipe size (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL
40	UC40	Promaseal A acrylic sealant	Up to 8 mm	FSRG201650	-/120/120
50	UC50				-/120/120
65	UC63				-/120/120
90	UC90				-/120/120
110	UC110				-/120/120
125	UC125				-/90/60
150	UC150				-/120/120

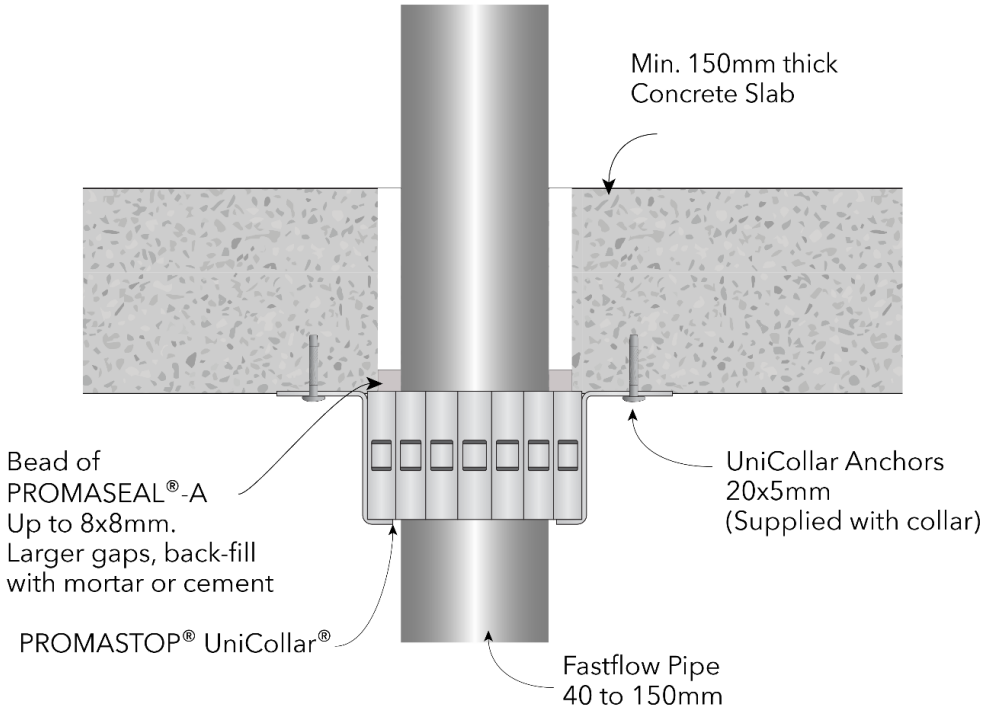

Figure 7 Cross section view of Fastflow pipe penetrating concrete slab protected by PROMASTO® UniCollar® on the exposed side.

Table 20 Various plastic pipes protected with one PROMASTOP® UniCollar one the exposed face in a 0.75 mm thick ComFlor decking on a concrete slab

Pipe type	Nom. pipe size (mm)	Sealant	Annular gap	Collar type	FRL
PPR	25-100	Promaseal A	Up to 8 mm	Suitable UniCollar	-/120/90
	110				-/120/120

Pipe type	Nom. pipe size (mm)	Sealant	Annular gap	Collar type	FRL
PEX pipe	Up to 25 mm				-/120/90

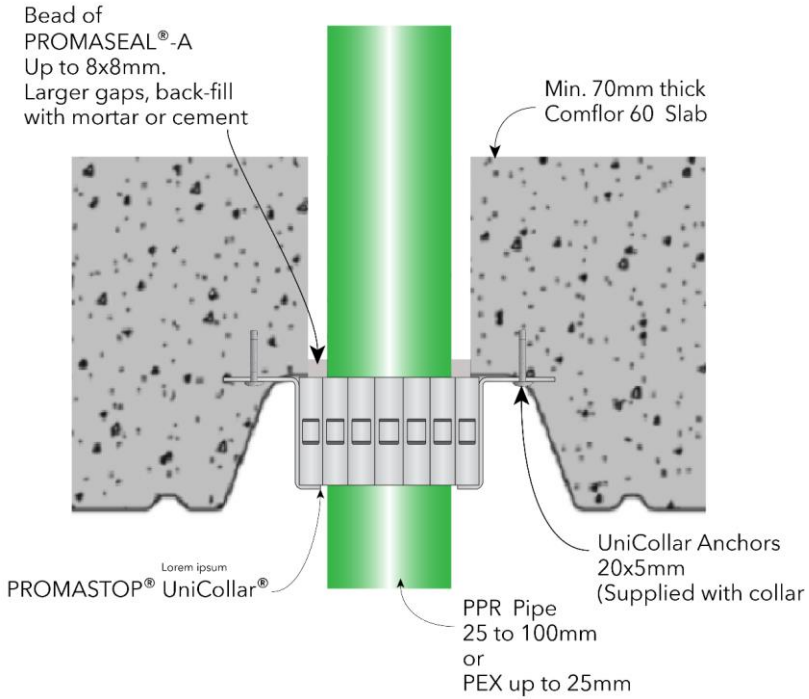

Figure 8 Cross section view of PPR/PEX pipe penetrating Comflor protected by PROMASTOP® UniCollar® on the exposed side.

Table 21 Various plastic pipes protected with one PROMASTOP® UniCollar on exposed side and PROMASEAL® SupaWrap on the unexposed side in 60 mm thick Vermiculux board in concrete floor slab

Pipe type	Nom. pipe size (mm)	Sealing system	Sealant	FRL
uPVC	32-110	PROMASTOP® UniCollar on exposed side and PROMASEAL® SupaWrap on the unexposed side	Promaseal AN acrylic sealant applied to fill the annular gap on exposed side as referenced in A-16-016	-/120/120
HDPE	40-110			-/120/120

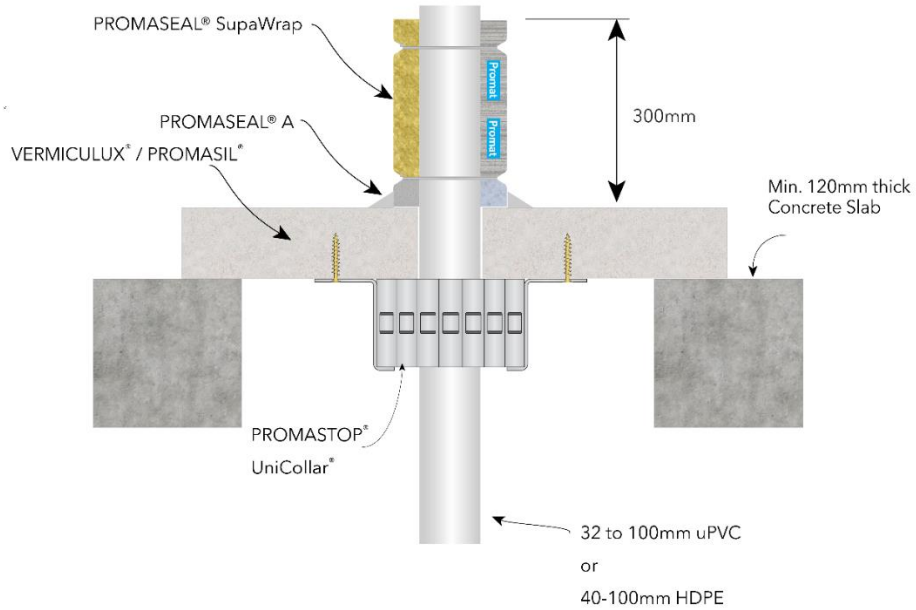

Figure 9 Cross section view of uPVC/HDPE pipe penetrating Promasil board protected by PROMASTOP® UniCollar® on exposed side.

Table 22 dblue pipes penetrating a 128 mm thick plasterboard wall system with double layer of minimum 16 mm thick fire rated plasterboard protected with one PROMASTOP® UniCollar on each side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant type	Annular gap	Sealant as used in test	FRL*
40	2.16	UC40	Promaseal AN acrylic sealant	Up to 5 mm	A-13-850a	-/120/120
50	1.8	UC50				-/120/120
75	2.3	UC80				-/120/120
100	3.74	UC100				-/120/120
125	4.7	UC150				-/120/90
Note: The wall may be constructed of timber stud provided that the fire collars have a clearance of not less than 50 mm from the studs. *FRL of the separating element must be established either through testing or assessment by an accredited testing laboratory						

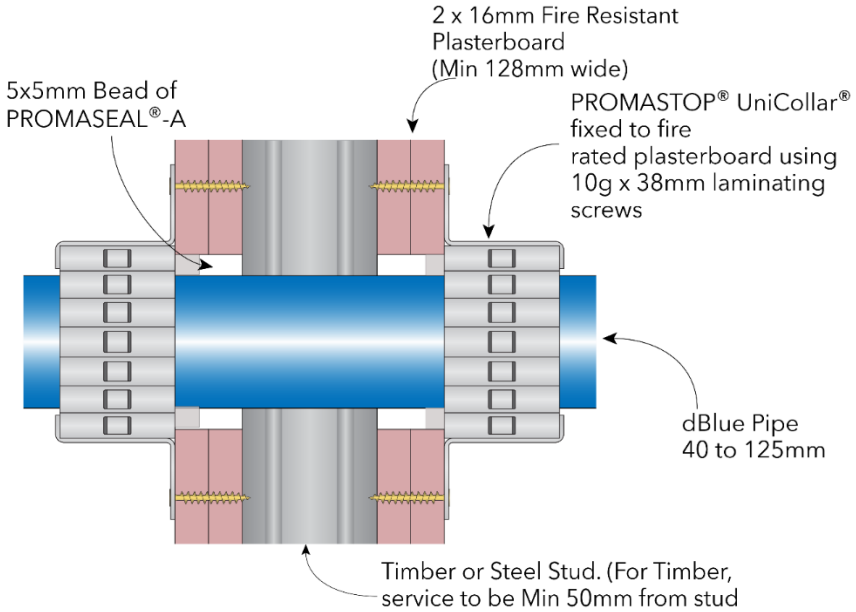

Figure 10 Cross section view of dBlue pipe penetrating 2 hr plasterboard protected by PROMASTOP® UniCollar on either side.

Table 23 dblue pipes penetrating concrete slab protected with one PROMASTOP® UniCollar on exposed side

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant	Annular gap	FRL		
					Minimum separating element thickness*		
					120 mm	150 mm	175 mm
40	2.16	UC40	Promaseal AN acrylic sealant	Up to 8 mm	-/120/120	-/180/180	-/240/240
50	1.8	UC50			-/120/120	-/180/180	-/240/180
75	2.3	UC80			-/120/120	-/180/180	-/240/180
100	3.74	UC100			-/120/120	-/180/180	-/240/180

* According to AS 3600:2018, the stipulated separating element thickness is applicable to solid block concrete or masonry construction. The separating element may be varied to lightweight concrete or hollow core masonry. In such case, the separating element must be tested or assessed to achieve the required FRL. For hollow core masonry, the joints must not overlap the hollow core. The backing rod and the sealant must be sandwiched.

Nom. pipe size (mm)	Wall thickness (mm)	Collar type	Sealant	Annular gap	FRL		
					Minimum separating element thickness*		
					120 mm	150 mm	175 mm

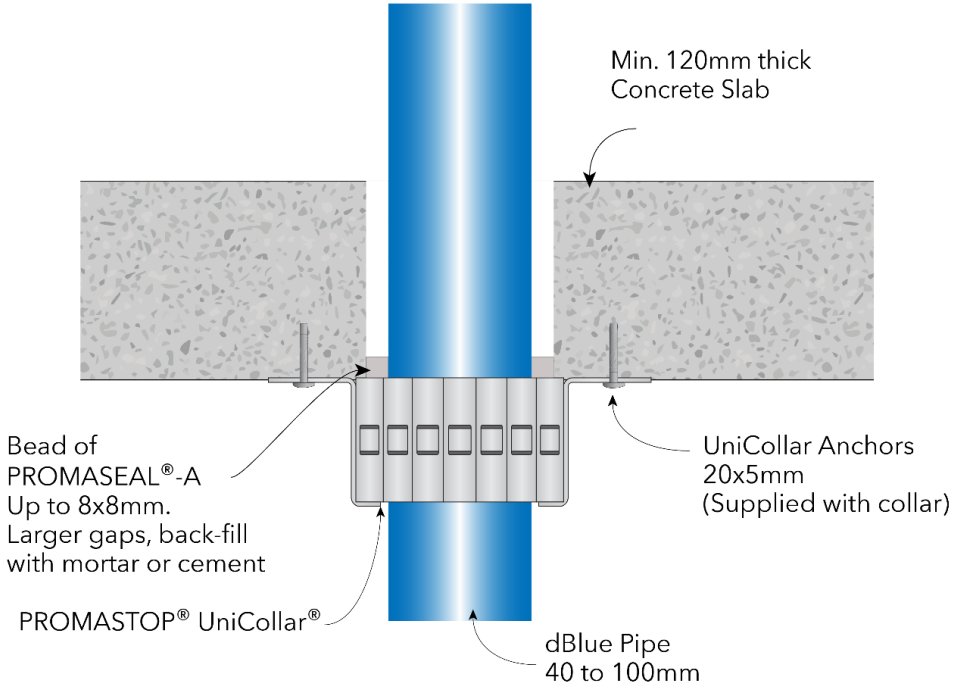

Figure 11 Cross sectional view of dBlue pipe penetrating concrete slab protected by PROMASTOP® UniCollar® on exposed side.

3.0 Direct field of application

- The scope of this certificate is limited to the systems described in the supporting evidence outlined in Table 24 and Table 25.
- This certificate only relates to the actual prototype test specimens, testing conditions and methodology described in the supporting evidence, and does not imply any performance abilities of constructions made with subsequent manufactured products.
- This report details the methods of construction, test conditions and assessed results that are expected if the systems were tested in accordance with AS1530.4:2014 and assessed in accordance with AS 4072.1:2005 (R2016).
- This certificate is only valid for the certified systems and must not be used for any other purpose. Any changes with respect to size, construction details, loads, stresses, edge or end conditions – other than those identified in this document – may invalidate the certified performance. If there are changes further review and certification will need to be done by Jensen Hughes Fire Testing Pty. Ltd.
- This certificate is issued on the basis that the certified systems are constructed in accordance with robust quality control procedures, relevant industry regulations, and applicable Australian Standards for material quality, structural design, workmanship, and the proper handling, installation, and finishing of the products on-site. These factors are outside the scope and control of this certificate.
- The product outlined in this certificate applies to applications relevant to the requirement for fire resistance only and does not cover any other features of mineral fiber such as durability, thermal conductivity, water absorption etc.

4.0 Accreditation

The Jensen Hughes FireMark Product Certification scheme operated by Jensen Hughes Fire Testing Pty Ltd is accredited by JASANZ as a Conformity Assessment Body providing Product Certification in the Jensen Hughes FireMark Scheme. Our scope is available on the JASANZ website at **JASANZ register**.

5.0 Compliance with the National Construction Code

This certificate serves as evidence of suitability and approval, confirming that the building elements referenced have been confirmed in accordance with the relevant Technical Schedules of the FireMark scheme, as well as AS 1530.4:2014 and AS 4072.1:2005. The certification is based on prototypes that have been submitted to the standard fire test, or equivalent or more severe testing, achieving the FRL without reliance on active fire suppression systems.

6.0 Validity

Jensen Hughes does not endorse the tested or assessed product in any way. The conclusions of the results in this certificate may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all conditions.

Due to the nature of fire testing and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy. The inherent variability in test procedures, materials

and methods of construction, and installation may lead to variations in performance between elements of similar construction.

The systems assessed within this certificate are based on information and experience available at the time of preparation. The published procedures for the conduct of tests and the assessment of test results are subject to constant review and improvement. It is therefore recommended that this report be reviewed on, or before, the stated expiry date.

The assessed results represent our opinion about the performance of the proposed system/s expected to be demonstrated on a test carried out in accordance with the requirements of the referenced technical schedule.

The client has requested product certification for the specified product under the Jensen Hughes FireMark scheme for their own purposes, and this certificate has been prepared to meet the requirements of the relevant product technical schedule and any disclosed and agreed objectives reflected in the fee proposal. This certificate may be used as Evidence of Suitability in accordance with the requirements of the relevant National Construction Code. However, Jensen Hughes cannot guarantee the following:

- Whether it will be accepted by the relevant building authorities and / or any other relevant parties.
- The suitability of the system/s for a specific installation. This must be determined by the installer, builder and / or relevant building authority.

7.0 Authority

Applicant undertakings and conditions of use

Promat Australia Pty Ltd confirms that:

- To their knowledge the component or element of structure, which is the subject of the assessed results within this certificate, has not been subjected to a fire test to the standard against which assessment of this product is being made.
- They agree to withdraw this certificate from circulation should the component or element of structure be the subject of a fire test by a test authority in accordance with the standard against which the assessed results are being made and the results are not in agreement with this certificate.
- They are not aware of any information that could adversely affect the conclusions of the assessed results in this certificate and if they subsequently become aware of any such information, agree to ask the assessing authority to withdraw the assessment and subsequent product certificate.

General conditions of use

This certificate may only be reproduced in full without modifications by the report sponsor. Copies, extracts or abridgments of this certificate in any form must not be published by other organizations or individuals without the permission of Jensen Hughes Fire Testing Pty Ltd.

Appendix A Overview of test / assessment evidence

Table 19 and Table 20 outline all the fire resistance test evidence and assessed configurations that form the basis of approval for the scope outlined in this certificate.

Table 24 Test evidence

Number	Test report number	Original tested standard
1.	F91789	AS1530.4-1997
2.	F91797A	AS1530.4-1997
3.	F91810A	AS1530.4-1997
4.	F91793	AS1530.4-1997
5.	FSP0785	AS1530.4-1997
6.	FSP0786	AS1530.4-1997
7.	FSP0814	AS1530.4-1997
8.	F91872	AS1530.4-1997
9.	F91873	AS1530.4-1997
10.	BWA2227801.1	AS1530.4-2005
11.	A-15-977	AS1530.4-2005
12.	A-16-016	AS1530.4-2005
13.	FSRG201644	AS 1530.4:2014
14.	FSRG201650	AS 1530.4:2014
15.	FP6114	AS 1530.4:2014
16.	FR 10131-001	AS 1530.4:2014
17.	A-21-058	AS 1530.4:2014
18.	A-21-060	AS 1530.4:2014
19.	A-22-005	AS 1530.4:2014
20.	FRT210440 R1.0	AS 1530.4:2014
21.	FRT210441 R1.0	AS 1530.4:2014
22.	148042	AS 1530.4:2014
23.	A-24-024-2	AS 1530.4:2014
24.	A-24-009B	AS 1530.4:2014

Number	Test report number	Original tested standard
25.	A-24-017	AS 1530.4:2014
26.	A-14-916	AS 1530.4:2014
27.	A-14-901B	AS 1530.4:2005
28.	A-24-002	AS 1530.4:2014
29.	A-24-001	AS 1530.4:2014
30.	A-13-850a	AS 1530.4:2005
31.	A-13-851	AS 1530.4:2005

Table 25 Assessment evidence

Number	Assessment report number	Assessment standard
1	C91611a	AS 1530.4:2014 and AS 4072.1:2005