CERTIFICATE NUMBER AC104.4

CERTIFICATE OF APPROVAL

This is to certify that Siderise Insulation Ltd has carried out the certification of Siderise 'RV' linear joint seal in accordance with the Jensen Hughes FireMark scheme rules document – ATS00 – for the certification of passive fire protection products in Australia. The product has been investigated against the requirements of Technical Schedule ATS21 and found in compliance with the standard(s) outlined in this certificate and is approved for use subject to the conditions outlined in this document.

Siderise Insulation Ltd

Product site (Factory): Forge Industrial Estate, Maesteg, Bridgend, CF34 0AH, United Kingdom

Certified Product	Technical Schedule	Approved Standard
Siderise 'RV' (Rainscreen Vertical) linear joint seal + RV 90/30 + RV 90/60 + RV 120/120 See Table 4 for scope of applicability	ATS21 – Fire resisting linear gap sealing systems	AS 1530.4:2014 AS 4072.1:2005 (R2016)

Jensen Hughes project number: CER220021
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	21 December 2022
Re-issued date	15 October 2025
Certificate valid to	21 December 2027

1.0 Introduction

This certificate of approval relates to the use of Siderise 'RV' linear joint seal products for the fire protection of linear joint gaps. The product has been investigated against the requirements of Technical Schedule ATS21 and found in compliance with AS 1530.4:2014 and AS 4072.1:2005 (R2016) – and are approved for use as a fire resisting linear gap seal product. The resulting scope of certification has been deemed to satisfy the requirements when used in the following applications outlined in Table 1.

Table 1 Installation application of the seal

Installation application of the seal
+ Between concrete and concrete/masonry substrates in the vertical orientation
+ Between masonry and masonry/concrete substrates in the vertical orientation

The detailed scope is given in Table 4 of the approval matrix in section 2.0 of this certificate. These show the approved range of products and limitations.

The product is approved based on satisfying the requirements in Table 1 and the factory production control (FPC) audit carried out for each location where the product is manufactured for the Australian market. The audit report for each location has been prepared and is retained in a confidential file by Jensen Hughes. General details are provided in Table 3.

This approval relates to the ongoing production of Siderise 'RV' linear joint seal products. The product and/or its immediate packaging are 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 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 2 Basis of evidence

Evidence	Comments
Evidence of relevant testing provided.	Yes 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 products for traceability	Yes
Batch number confirmed	Yes
The requirements of technical schedule ATS21 met	Yes
The manufacturing facilities are accredited to ISO 9001:2015	Yes
Satisfactory inspection and surveillance of factory production control (FPC)	Yes

Table 3 FPC audit

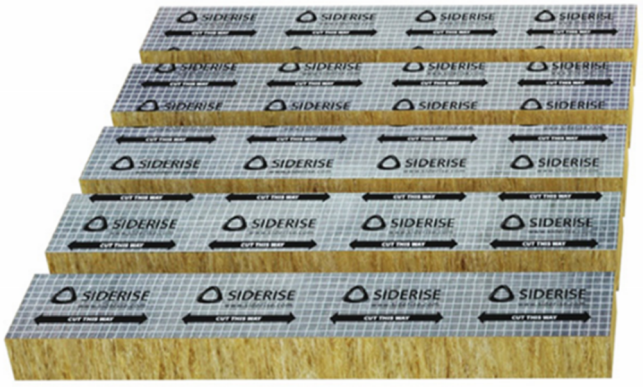
Item	Detail
Audit company	Jensen Hughes
Audit objectives	The objective of the audit is to: + determine the conformity of the applicant's management system, or parts of it, with audit criteria + determine the ability of the management system to ensure the applicant meets applicable contractual requirements + determine the effectiveness of the management system to ensure the applicant 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	13 March 2024
Outcome	The audit satisfied the requirements of the Jensen Hughes FireMark scheme.

2.0 Formal scope of certification

General product description

RV 90/30, RV 90/60 and RV 120/120 consist of stone wool insulation with aluminum foil facing used as linear gap seals. The seals are formed in 1200 mm long sections and are provided in a range of thicknesses.

A representative image of the product is shown here.



General requirements

The linear joint seals shall not be penetrated by services – eg pipes or cables.

The linear joint seals shall be installed within concrete or masonry substrates of minimum 120 mm thickness and a density of ≥ 670 kg/m^3.

The certification is only applicable to straight, linear joint seals, as those defined in AS 1530.4:2014, and does not consider corner detailing.

Approved products, applications, and fire resistance periods

This certificate approves the products and applications detailed in the following table, subject to their installation in accordance with the manufacturer's installation instructions.

The approval relates to linear joint gap sealing applications tested or assessed in accordance with AS 1530.4:2014. Only the specific types of constructions defined in the test reports referenced may be considered relevant to this certification, as shown in Table 4.

Approval matrix

Table 4 Vertical orientation - Joints in concrete/masonry to concrete/masonry substrates protected with Siderise 'RV' linear joint seals

Product	Seal thickness (mm)	Cover length (mm)	Compression minimum (mm)	Gap width[2] (mm)	Bracket requirement[2]	FRL[1]
RV-120/120	120	1200	Gap width + 10 mm	301-450	B355, 450 mm centres	-/120/120
				241-300	B355, 450 mm centres	-/120/120
				151-240	B195, 600 mm centres	-/120/120
				51-150	B65/110, 600 mm centres	-/120/120
			10%	20-50	NA	-/120/120
RV 90/90	90	1200	Gap width + 10 mm	241-450	B355, 600 mm centres	-/90/60
				151-240	B195, 600 mm centres	-/90/60
				51-150	B65/110	-/90/60
			10%	20-50	NA	-/90/60
RV 90/30	75	1200	Gap width + 10 mm	301-450	B355, 600 mm centres	-/90/30
				241-300	B355, 600 mm centres	-/90/30
				151-240	B195, 600 mm centres	-/90/30
				51-150	B65/110, 600 mm centres	-/90/30
			10%	20-50	NA	-/90/30

Note–

1 Refer to the Siderise 'RV' linear joint seals installation details and gap stability limitations section for further information.

Table 5 Schedule of components

Item	Description	
Separating element – Floor and wall		
1.	Item name	Autoclaved aerated concrete (AAC)
	Density	670 kg/m^3
	Thickness	Minimum 120 mm
	Bedding material	Standard sand/cement mortar mix
Linear gap seal		
2.	Item name	RV 90/30, RV 90/60 and RV 120/120linear gap seals
	Description	Stone wool insulation with aluminium foil facing
	Density	75 kg/m^3
Steel hanger		
3.	Item name	B355, B195, B65/110
	Material	Galvanized steel
	Size	1.5 mm thick × 25 mm wide
	Lengths	B355 – 355 mm, B195 – 295 mm, B65/110
	Installation	Hanger impaled into linear gap seal at mid-thickness and fixed to separating element with a 6 mm diameter × 70 mm steel anchor.
Damp proof membrane		
4.	Item name	Damp proof membrane
	Material	Polyurethane membrane
	Thickness	0.75 mm
	Fixing method	Friction fitted between the seal and separating element
Joint tape		
5.	Manufacturer	Siderise Insulation Limited
	Reference	RFT120/45
	Material	Self-adhesive backed aluminium foil
	Size	0.1 mm thick × 120 m wide
	Fixing method	Self-adhered across each of the splice joints in the cavity barriers at the unexposed face.

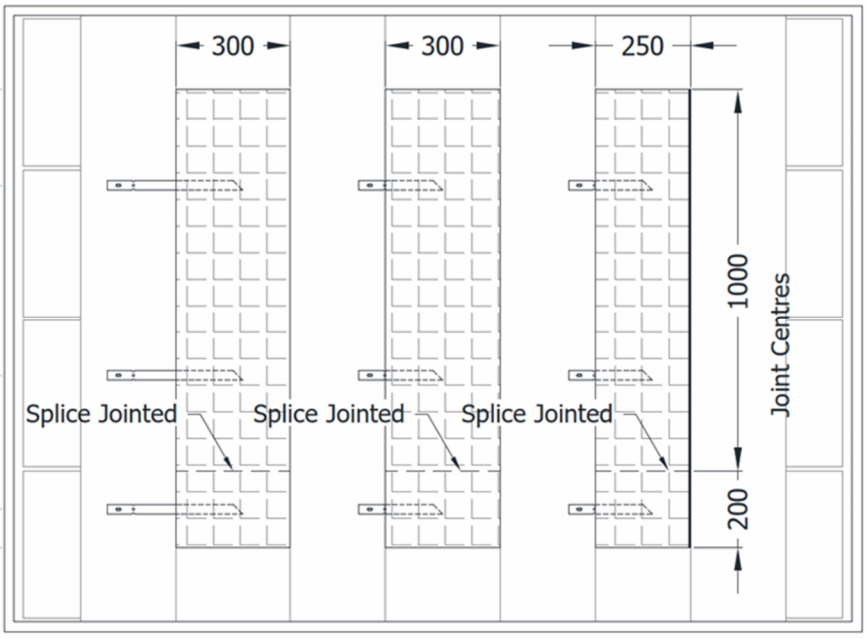


Figure 1 - General plan view of the tested systems as provided by the report applicant.

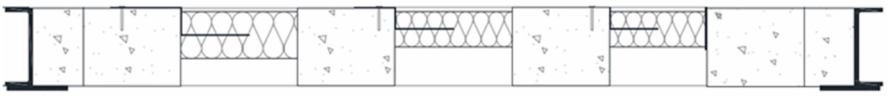


Figure 2 - General section view of the tested systems as provided by the report applicant.

3.0 Linear gap seal installation details

Installation and fixing

The products are supplied either pre-cut or in sheet form to allow site cutting. Care shall be taken to ensure that the required over sizing of the linear joint seals is accounted for to achieve the specified compression given in the tables. The compression requirements must be strictly observed.

Unless otherwise indicated, the seal shall be correctly supported by steel brackets supplied by the manufacturer in compliance with the required bracket type and frequency detailed in the tables.

Further details of bracket installation outlined below.

- The bracket centres shall be such that they are installed to a maximum of 300 mm from each end of the 1200 mm section.
- The brackets may be bent to suit the specific substrate thickness.
- Brackets shall be pushed into the seal such that it is impaled at mid thickness, with one leg extending to nominally 75% of the gap width.
- The steel angle brackets should be fixed with suitable fire rated fixings which are a minimum of 7 mm in diameter and 50 mm in length.
- A minimum of two brackets are required for each section of linear joint seal and short lengths of seal should be avoided, where possible.
- The seals must be fitted within the thickness of the substrate.

The certification is only applicable to straight, linear joint seals, as those defined in AS 1530.4:2014 and does not consider corner detailing.

Jointing

The joints between the lengths of seals shall be straight butt joints and Shelby fitted in slot compression so that they are tight. RFT120/45 self-and he sieve reinforced aluminum foil tape shall be applied over the joints.

Gap stability

The gap stability is a fundamental requirement in order to achieve fire compartmentation when utilising these products. It should be noted that the firestops will only function to the specified rating providing the gap stability does not deviate greater than the specified compression tolerances stated in the tables. Appropriate support systems should be designed and installed as required to limit the potential movement at the elevated temperatures of a fire and, should the gap increase beyond these tolerances and or fail completely in the event of a fire, then the fire stop will cease to function.

4.0 Direct field of application

- The scope of this certificate is limited to an assessment of the variations to the tested systems described in the supporting assessment report CER220006 FAS R1.1.
- The outcomes of this certificate pertains exclusively to full-width linear gap seals that are installed in a closed state or configuration under compression and do not extend to gap protection with curtain walls.
- The seal must be installed on the nonexposed side with the steel reinforcement bracket remaining unexposed.
- For systems in floors, the considered exposure is from the underside only.
- 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.

5.0 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**.

6.0 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.

7.0 Validity

Jensen Hughes does not endorse the certified 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 certified products and systems 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.

This certificate is provided to Siderise Insulation Ltd for their own specific purposes. This document may be used as Evidence of Suitability in accordance the requirements of the relevant National Construction Code. Building certifiers and other third parties must determine the suitability of the systems described in this report for a specific installation.

8.0 Authority

Applicant undertakings and conditions of use

Siderise Insulation Ltd confirms that:

- The certificate holder agrees to withdraw this certificate from circulation if the certified products or systems are subsequently subjected to fire testing in accordance with the standards referenced in this certificate, and the results are found to be inconsistent with the certificate.
- The certificate holder confirms they are not aware of any information that could adversely impact the conclusions or results stated in this certificate. Should such information become known, the certificate holder agrees to request Jensen Hughes Fire Testing Pty Ltd to withdraw the certificate.

General conditions of use

This certificate must only be reproduced in its entirety and without alteration by the applicant. No other organisation or individual may publish copies, excerpts, or abridged versions of this certificate in any format without the written approval of Jensen Hughes Fire Testing Pty Ltd.

Appendix A - Overview of test evidence

Table 6 and Table 7 outlines all evidence that form the basis of approval for the scope outlined in this certificate.

Table 6 Test Evidence

Number	Test report number	Tested standard
1	WF 389382	BS EN 1366-4:2006 +A1:2010
2	WF 398827	
3	WF 412180	
4	WF 424701	
5	WF 431532	

Table 7 Assessment evidence

Number	Test report number	Test standard
1	CER220006 FAS R1.1	AS 1530.4:2014 and AS 4072.1:2005