

Siderise RV Brick Slip Vertical Cavity Barrier

Cavity fire barrier for preventing lateral fire spread in ventilated cladding systems with mechanically fixed brick slips



Application

Tested within ventilated brick-slip cladding systems the Siderise Brick Slip Cavity Barriers comprise of the RH Brick Slip Horizontal Open State Cavity Barriers and the Siderise RV Brick Slip Vertical Cavity Barriers. Their combined use ensures that the brick slip system will drain moisture within the façade construction whilst maintaining airflow in normal service.

Siderise RV Brick Slip Vertical Cavity Barriers are used to full fill the void between the external envelope and internal structure. For instance, when used in a mechanically fixed brick slip cladding system, RV is installed tightly compressed to the external horizontal rails and allowed to expand through rail gap. This is facilitated by cutting along the top and bottom of the barrier's intersection with the rails. This in turn allows the stone wool in the RV barriers to expand back out and fill the gaps that may be created by the brick-slip rails.

Where brick slip frogs are present, [Siderise FR-X Fire Rated Wet Zone Sealant](#) can be further applied into the frogs that align with the RV barriers. Please refer to the specific installation instructions provided for your specific brick slip system or contact our Technical Services Team.

The unique stone wool lamella core construction of Siderise RV enables the vertical barriers to accommodate the serviceability movement normally associated with cladding façade systems.

Intersections between the RH Brick Slip Horizontal Open State Cavity Barrier and RV Brick Slip Vertical Cavity Barriers are simply abutted, with RFT 120/45 foil tape applied as detailed in installation instructions provided separately.

Product Description

Siderise RV Brick Slip Vertical Cavity Barriers for brick slip systems consist of a non-combustible stone wool lamella core, with reinforced aluminium foil faces.

Siderise RV Brick Slip Vertical Cavity Barriers are installed within the cavity formed between the brick slip facade and the inner structural wall using appropriate Siderise support brackets. Brackets are available in either galvanised mild steel (G) or stainless steel (S).

The standard product length for both horizontal and vertical cavity barriers is 1200mm. Whereas horizontal barriers are only available as precut strips, vertical barriers are also available in sheet form.

Fire Performance

Brick Slip Systems / Project Level Testing

Brick slip systems typically contain a series of rails to support the outer brick slips. These brick slips can also incorporate voids or 'frogs' within them. It is important that even if specifying facades under the 'linear route' within Approved Document B, that consideration is given to the hidden voids created by these rails and brick slip 'frogs'.

Therefore, we recommend partnering with us to test specific systems at our Innovation Centre. These project level test reports can then be used as supporting evidence by the project fire engineer and design team.

It may be the case that our existing test library provides support for a given project arrangement, please consult our standards details and engage with our Technical Services team for clarification.

Reaction to fire

This is the response of a material in contributing by its own decomposition to a fire to which it is exposed under specified conditions. Results are classified to BS EN 13501-1:2018 "Fire classification of construction products and building elements".

The primary element of the seal (stone wool with aluminium foil facings) used in Siderise RV Brick Slip Vertical Cavity Barriers have a reaction to fire Third-party certification with Intertek and are classified as 'A1' to EN 13501-1.

Resistance to Fire

This is the ability of an element of structure or product to maintain its stability for a specific time period as determined by 'integrity' (E) and 'insulation' (I) as specified in the fire resistance test. Where appropriate results can then be classified in accordance with EN 13501-2.

Siderise RV vertical cavity barriers have been tested for resistance to fire in accordance with BS EN 1366-4: 2006+A1: 2010. The cavity barriers maintained integrity (E) and insulation (I) requirements as detailed in Table 1:

Please note: the fire resistance performance for RV Brick Slip Vertical Cavity Barriers, given in Table 1, relate to the performance of barrier in isolation, the overall performance of the system should be reviewed by Technical Services, with additional project level test evidence provided via the Siderise Innovation Centre if necessary.

Table 1: RV Vertical Cavity Barriers Resistance to Fire Performance to BS EN 1366-4:2006+A1:2010

Product Ref	Void Width (mm)	Thickness (mm)	Compression (min.)	Integrity (Mins)	Insulation (mins)	Product Length (mm)	Bracket Requirement	Third-party Certification
RV-90/30	20 - 50	75	+10%	90	30	1200	None.	IFCC 1712
	51 - 150	75	+10mm	90	30	1200	2no.B65/110 600mm centres	IFCC 1712
	151 - 250	75	+10mm	90	30	1200	2no.B195 600mm centres	IFCC 1712
RV-90/30X	251 - 400	90	+10mm	90	30	1200	2no.B355 600mm centres	IFCC 1712
RV-90/60	20 - 50	100	+10%	90	60	1200	None.	IFCC 1712
	51 - 150	100	+10mm	90	60	1200	2no.B65/110 600mm centres	IFCC 1712
	151 - 250	100	+10mm	90	60	1200	2no.B195 600mm centres	IFCC 1712
RV-90/60X	251 - 400	120	+10mm	90	60	1200	2no.B355 600mm centres	IFCC 1712
RV-120/120	20 - 50	120	+10%	120	120	1200	None.	IFCC 1712
	51 - 150	120	+10mm	120	120	1200	2no.B65/110 600mm centres	IFCC 1712
	151 - 250	120	+10mm	120	120	1200	2no.B195 600mm centres	IFCC 1712
RV-120/120X	251 - 400	150	+10mm	120	120	1200	2no.B355 600mm centres	IFCC 1712

Please note: -

Integrity and Insulation ratings in the above tables refer to performance in product fire tests to EN1366-4:2006+A1:2010. In all cases, we recommend that the specifier and user review the specific project configuration in light of the latest National Building Regulations, local Building Code, and/or government advice.

- Support brackets should be installed at 600mm fixing centres (300mm from each end).
- The brackets are supplied as standard in 1mm galvanised mild steel (G) or stainless steel (S), in a flat form for site folding.
- Lengths of the barrier are secured with these dedicated brackets, which impale the product at mid thickness to a depth of 75% of void.
- The brackets are to be secured to the inner structural wall using non-combustible steel anchors or screws. These fixings are not supplied by Siderise.

Please refer to separate [RV-RH installation instruction](#).

Technical Specification

Table 2: RV Product Properties

Properties	Value
Form Supplied	Sheets : 1200mm x 1200mm; Thickness is denoted by the rating Pre-cut strips: 1200mm long and supplied in width to suit advised void size.
Product Finish	Aluminium foil to surfaces exposed to cavity
Product Colour	Solid, green-brown exposed edges with silver aluminium top and bottom facings
Reaction to Fire	Classified A1 to EN 13501-1
Resistance to Fire	For product fire performance see Table 1

Environmental

- Stone wool core is recyclable.

Additional Information Available

The following information is available for download via the website:

- Material Data Sheet

Technical Support

For technical advice, support, or to request a copy of a test or classification report - please contact:

technical.services@siderise.com

For Installation Training or Site Inspections please contact: site.services@siderise.com

Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.

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