SIDERISE®
FAÇADES

RH & RV CAVITY BARRIERS

For use in external envelope or fabric of buildings

SIDERISE RH 'OPEN STATE' HORIZONTAL AND RV VERTICAL CAVITY BARRIER RANGE REPRESENT THE DEFAULT CHOICE FOR MARKET-LEADING, HIGH-PERFORMANCE RAINSCREEN CAVITY BARRIER APPLICATIONS

- Allows continuous ventilation and drainage behind external envelope
- Products tested in isolation and in large-scale system tests
- Reactive intumescent has rapid seal closure properties
- Horizontal barriers can incorporate up to 50mm continuous ventilated air space
- Vertical barriers accommodate cladding serviceability movement

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RH & RV CAVITY BARRIERS

SIDERISE RH and RV cavity barriers have been specifically developed to meet the requirements for cavity barriers used in drained and ventilated façades

SIDERISE RH 'Open State' horizontal cavity barriers have been specifically developed to meet the requirements for cavity barriers used in drained and ventilated façades. Their use ensures that the system will drain any moisture within the façade construction, whilst maintaining airflow and, in the event of fire, provide an effective hot smoke and fire seal.

SIDERISE has developed two 'Open State' (open void) horizontal solutions: RH25(G/S) for air gaps up to 25mm and RH50(G/S) for air gaps up to 50mm.

The product range is compliant to current market requirements and has been tested to ASFP Guidance: 'Open State' Cavity Barrier used in External Envelope or Fabric of Buildings (prEN 1364-6:2016). ASFP Technical Guidance Document – TGD 19 (revised Nov 2017) refers.

SIDERISE RV vertical cavity barriers for rainscreen cladding are used to full fill the void between the external envelope and internal structure.

By fully sealing the void, they assist ventilated façades to function by maintaining air-pressurisation compartmentation.

Importantly, their unique stonewool lamella core construction enables the vertical barriers to accommodate the serviceability movement normally associated with rainscreen façades.

Intersections between horizontal and vertical cavity barriers are simply abutted.

THIRD-PARTY CERTIFICATION

SIDERISE is the first manufacturer to achieve Third-Party Certification for Rainscreen Cavity Barriers.

For full details of SIDERISE certified Rainscreen Cavity Barriers, including the testing and scope of our Third-Party Certification, please refer to Warringtonfire ewcl5 Certificate Number ME 5101.

This Certificate is available on **www.siderise.com** or by contacting our Technical Support department: **technical@siderise.com**

SIDERISE RH 'OPEN STATE' HORIZONTAL CAVITY BARRIERS

PRODUCT DESCRIPTION

SIDERISE RH 'Open State' horizontal cavity barriers consist of a non-combustible stonewool lamella core, with reinforced aluminium foil faces. This primary seal has a reaction to fire performance to Class 'A1'. The exposed leading edge is also sealed with aluminium foil. Whilst the base material is water repellent and non-hygroscopic, this predominantly enclosed arrangement affords an added degree of weather protection to the core material.

SIDERISE RH 'Open State' horizontal cavity barriers incorporate a continuous high performance reactive intumescent strip which is bonded to the leading edge. The intumescent material has a reaction to fire performance to Class 'E'. In the event of exposure to fire, the intumescent rapidly expands and fully seals the purposely designed ventilation gap, formed at the time of installation, between barrier and the rear of the cladding.

As standard, the range includes a choice of products to suit either 25mm air gaps – referred to as RH25 – or 50mm air gaps – referred to as RH50.

Both options are available with either galvanised mild steel (G) or stainless steel (S) fixing brackets as part of the system.

The specific horizontal cavity barrier system is then referred to as either RH25G, RH25S, RH50G or RH50S accordingly. The choice of bracket is usually determined by the rainscreen system designer according to project exposure and/or location.

The leading edge of the horizontal cavity barriers is encapsulated in a weather resistant polymer film. As standard, the film is black so as to register as a 'shadow-line' behind open joints in the cladding.

For product identification purposes, the top edges of the film used on the RH25 and RH50 cavity barriers are colour-coded and labelled to show the product fire classification rating.

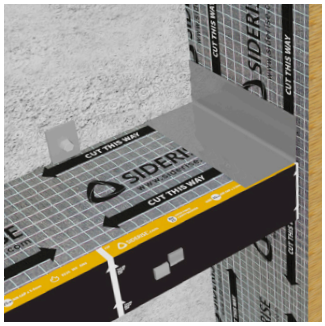
Product	Rating			Colour
RH25 - 90/30	E90	I30	EI30	Green
RH25 - 60/60	E60	I60	EI60	Orange
RH25 - 90/60	E90	I60	EI60	Purple
RH25 - 120/60	E120	I60	EI60	Yellow
RH25 - 120/90	E120	I90	EI90	Grey
RH50 - 30/30	E30	I30	EI30	Red
RH50 - 60/60	E60	I60	EI60	Blue

SIDERISE RH 'Open State' horizontal cavity barrier for air gaps up to 25mm

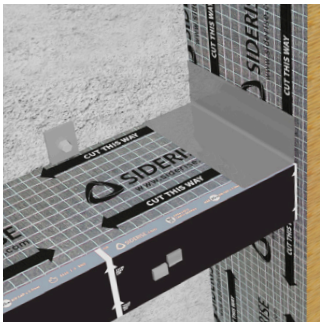
RH25-90/30

RH25-60/60

RH25-90/60



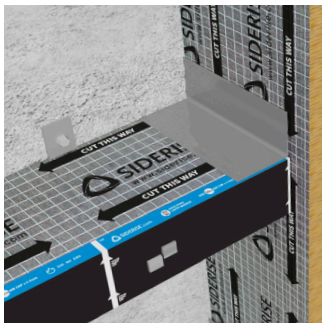
RH25-120/60



RH25-120/90

SIDERISE RH 'Open State' horizontal cavity barrier for air gaps up to 50mm

RH50-30/30



RH50-60/60

SIDERISE RH 'Open State' horizontal cavity barriers

STANDARDS AND APPROVALS

SIDERISE 'Open State' horizontal cavity barriers satisfy the requirements of:

- England – The Building Regulations 2010, Approved Document B (2019 edition) Volume 2, Section 9, diagram 9.1 and item 9.13 (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Wales - The Building Regulations 2010, Approved Document B (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Scotland – Technical Handbook 2. (Provision for cavity barriers requires 30 minutes Integrity only).
- Northern Ireland – Technical Document E. (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Ireland – Technical Guidance Document B. (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).

They also meet the higher minimum fire resistance standard for cavity barriers outlined in the LPC Design Guide for the Fire Protection of Buildings. (Provision for cavity barriers requires 30 minutes Integrity and 30 minutes Insulation).

FIRE TESTING – PRODUCTS

SIDERISE 'Open State' horizontal cavity barriers have been tested in accordance with ASFP TGD19 (prEN 1364-6): 'Open State' Cavity Barrier used in External Envelope or Fabric of Buildings. This test method specifies a procedure for determining the fire resistance of 'open state' cavity barriers when subjected to the standard fire exposure conditions and performance criteria stipulated in EN 1363 Part 1: 2012.

The tests have been undertaken to assess the ability of the horizontal 'open state' cavity barrier products to reinstate the fire resistance of a pre-cast, aerated concrete supporting construction. This is the standard assembly for testing such cavity barrier products as it allows the performance of the individual barrier to be classified.

THIRD-PARTY CERTIFICATION – TESTING

For details of testing carried out on those SIDERISE RH products subject to Third-Party Certification please refer to Warringtonfire ewcl5 Certificate Number ME 5101.

This Certificate is available on **www.siderise.com** or by contacting our Technical Support department: **technical@siderise.com**

PRODUCT FIRE PERFORMANCE

SIDERISE RH25(G/S) 'Open State' horizontal cavity barrier for maximum 25mm air gaps

SIDERISE have tested horizontal cavity barriers with 25mm air gap to the ASFP TGD19 method. During the fire tests, the seals achieved full effective closure in under 2.5 minutes. Seal temperatures remained below 180°C during this activation period, and maintained the EI requirements as detailed in Tables 1 & 2 for up to E120 and I90.

SIDERISE RH50(G/S) EI30 'Open State' horizontal cavity barrier for maximum 50mm air gaps, 30 minutes Integrity and 30 minutes Insulation

SIDERISE have tested horizontal cavity barriers with 50mm air gap to the ASFP TGD19 method. During the fire tests, the seals achieved full effective closure in under 2.5 minutes. Seal temperatures remained below 180°C during this activation period, and maintained the EI requirements as detailed in Tables 1 & 2 for up to EI30.

SIDERISE RH50(G/S) EI60 'Open State' horizontal cavity barrier for maximum 50mm air gaps, 60 minutes Integrity and 60 minutes Insulation

SIDERISE have tested horizontal cavity barriers with 50mm air gap to the ASFP TGD19 method. During the fire tests, the seals achieved full effective closure in under 2.5 minutes. Seal temperatures remained below 180°C during this activation period, and maintained the EI requirements as detailed in Tables 1 & 2 for up to EI60.

Small voids

For small voids <48mm please refer to Table 3 for fire classification performance up to E120 and I90.

SYSTEM FIRE PERFORMANCE

SIDERISE cavity barrier products have been used in a number of large-scale system tests such as BS 8414 (1&2) and NFPA 285. These may be used to evaluate the performance of the SIDERISE cavity barriers within a complete cladding system. The rules for evaluation of results from BS 8414 are subsequently defined in BS 9414.

For information regarding performance and assembly details in system tests please contact the Technical team.

SIDERISE RH 'Open State' horizontal cavity barriers

TABLE 1

Fire classification performance for SIDERISE RH 'Open State' horizontal cavity barriers with galvanised brackets for voids between 49 – 425mm (RH25) and 60 – 300mm (RH50)

Product type	Product fire classification rating			Barrier dimensions T x W (mm)	Void range (mm)	Air gap (mm)
	Integrity (E)	Insulation (I)	Classification (EI)			
RH25G-90/30	90	30	30	75 x void -25	49 – 425	25±3.0
RH25G-60/60	60	60	60	90 x void -25	49 – 425	25±3.0
RH25G-90/60	90	60	60	90 x void -25	49 – 300	25±3.0
RH25G-120/60	120	60	60	120 x void -25	49 – 425	25±3.0
RH25G-120/90	120	90	90	120 x void -25	49 – 425	25±3.0
RH50G-30/30	30	30	30	75 x void -50	60 – 300	50±5.0
RH50G-60/60	60	60	60	90 x void -50	60 – 300	50±5.0

TABLE 2

Fire classification performance for SIDERISE RH 'Open State' horizontal cavity barriers with stainless steel brackets for voids between 49 – 425mm (RH25) and 60 – 300mm (RH50)

Product type	Product fire classification rating			Barrier dimensions T x W (mm)	Void range (mm)	Air gap (mm)
	Integrity (E)	Insulation (I)	Classification (EI)			
RH25S-90/30	90	30	30	75 x void -25	49 – 425	25±3.0
RH25S-60/60	60	60	60	90 x void-25	49 – 425	25±3.0
RH25S-90/60	90	60	60	90 x void -25	49 – 300	25±3.0
RH25S-120/60	120	60	60	120 x void -25	49 – 425	25±3.0
RH25S-120/90	120	90	90	120 x void -25	49 – 425	25±3.0
RH50S-30/30	30	30	30	75 x void -50	60 – 300	50±5.0
RH50S-60/60	60	60	60	90 x void -50	60 – 300	50±5.0

Please note:
'T' refers to barrier thickness.
'W' refers to barrier width.
Fire classification rating in the above tables refers to performance in product fire tests in accordance with the ASFP TGD19 (prEN 1364-6) test method.
The products have been additionally incorporated in large scale system tests. Please contact the Façades team for further information.
In all cases, we recommend that the specifier and user review the specific project configuration with regard to available large scale system test data and in light of the latest National Building Regulations, local Code and/or government advice.

TABLE 3

Fire classification performance for SIDERISE 'Open State' horizontal cavity barriers for voids up to 48mm

Product type	Product fire classification rating			Barrier dimensions (mm)	Void range (mm)	Air gap (mm)
	Integrity (E)	Insulation (I)	Classification (EI)			
RH25-120/90*	120	90	90	1.5 x 75	0 – 26	25±3.0
RH25-90/30	90	30	30	20 x 75	42 – 48	25±3.0
				15 x 75	37 – 41	25±3.0
				15 x 75	32 – 36	20±3.0
				15 x 75	27 – 31	15±3.0
RH25-60/60	60	60	60	20 x 90	42 – 48	25±3.0
				15 x 90	37 – 41	25±3.0
				15 x 90	32 – 36	20±3.0
				15 x 90	27 – 31	15±3.0
RH25-90/60	90	60	60	20 x 90	42 – 48	25±3.0
				15 x 90	37 – 41	25±3.0
				15 x 90	32 – 36	20±3.0
				15 x 90	27 – 31	15±3.0
RH25-120/60	120	60	60	20 x 120	42 – 48	25±3.0
				15 x 120	37 – 41	25±3.0
				15 x 120	32 – 36	20±3.0
				15 x 120	27 – 31	15±3.0
RH25 - 120/90	120	90	90	20 x 120	42 – 48	25±3.0
				15 x 120	37 – 41	25±3.0
				15 x 120	32 – 36	20±3.0
				15 x 120	27 – 31	15±3.0

* Intumescent strip only.

SIDERISE RH 'Open State' horizontal cavity barriers

INSTALLATION RECOMMENDATIONS

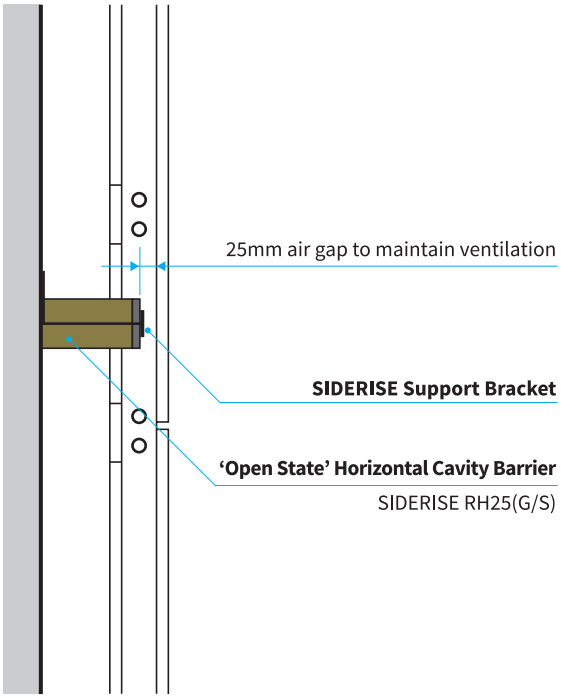
SIDERISE RH25(G/S) 'Open State' horizontal cavity barrier for maximum 25mm air gaps

These cavity barriers are installed in the void formed between the rainscreen facade and the inner structural wall, using the appropriate screw fixings or **SIDERISE support brackets** (see Tables 4–6).

To prevent fire flanking to the rear of the fire stop, any thermal insulation fitted to the outer face of the structural wall must be completely cut away to accommodate the thickness of this product.

The RH25(G/S) horizontal cavity barrier is fitted with the plain mineral fibre edge against the structural wall. A 25mm ±3mm (dimension may alter with specific design criteria) clear air gap should be left between the front edge of the cavity barrier and the rear surface of the rainscreen facade.

Adjacent lengths of the horizontal cavity barrier should be tightly abutted to prevent gaps. The top surface of the joint should be sealed with **SIDERISE foil tape RFT 120/45.**



SIDERISE RH50(G/S) 'Open State' horizontal cavity barrier for maximum 50mm air gaps

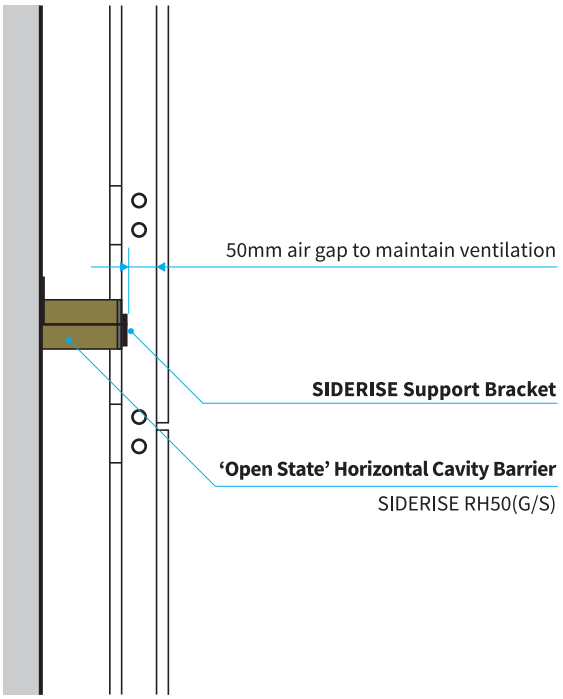
These are installed in the void formed between the rainscreen facade and the inner structural wall using the appropriate screw fixings or **SIDERISE support brackets** (see Tables 5 & 6). To prevent fire flanking to the rear of the fire stop, any thermal insulation fitted to the outer face of the structural wall must be completely cut away to accommodate the thickness of this product.

The RH50(G/S) horizontal cavity barrier is fitted with the plain mineral fibre edge against the structural wall. A 50mm ±5mm (dimension may alter with specific design criteria) clear air gap should be left between the front edge of the cavity barrier and the rear surface of the rainscreen facade.

Adjacent lengths of the horizontal cavity barrier should be tightly abutted to prevent gaps. The top surface of the joint should be sealed with **SIDERISE foil tape RFT 120/45**.

It is essential that the intumescent is installed as a continuous line passing in front of supporting rails.

A video is available on the website which provides further guidance on the installation of SIDERISE RH and RV cavity barriers.



SUPPORT BRACKETS

A range of SIDERISE support brackets for horizontal cavity barriers are available for void widths of up to 425mm for 25mm air gaps or up to 300mm for 50mm air gaps (see Tables 5–6).

Lengths of the barrier are secured with these dedicated 'split' fixing brackets, which are impaled through the product at mid thickness.

The brackets are drilled on site and secured to the inner structural wall using non-combustible steel anchors or screws. These fixings are not supplied by SIDERISE.

Please note:
For cut lengths a minimum of 2 brackets per length must be used. When using SIDERISE support brackets, pre-fitting the brackets to the product is recommended prior to fixing to the wall. For cut lengths <100mm one bracket/length.

'Screws' refers to the fixing and a washer with a 15mm (max.) head diameter. They should be non-combustible and suitable for substrate. These fixings are not supplied by SIDERISE.

SIDERISE RH25(G/S) 'Open State' horizontal cavity barrier for maximum 25mm air gaps (See Tables 5–6)

To facilitate bracket penetration, a small horizontal cut should be made in the face intumescent strip coinciding with the bracket's exit point. The protruding split ends should be trimmed to 10-20mm and counter-folded to retain the product. **SIDERISE galvanised brackets** and **SIDERISE stainless steel brackets** are available for purchase separately.

SIDERISE RH50(G/S) 'Open State' horizontal cavity barrier for maximum 50mm air gaps (See Tables 5 & 6)

SIDERISE RH50(G/S) EI30 and RH50 (G/S) EI60 must be installed with product logo tape on the top face. This is to ensure that the intumescent is located at the bottom of the barrier, thus closest to fire.

The protruding split ends should be trimmed to 10-20mm and counter-folded to retain the product.

SIDERISE galvanised brackets and **SIDERISE stainless steel brackets** are available for purchase separately.

TABLE 4 : Screw fixing requirements for voids less than 75mm

For installation of SIDERISE RH25 'Open State' horizontal cavity barriers for small voids

Product type	Void (mm)	Quantity	Type	Centres (mm)
RH25-120/90*	0 - 26	3	Screw	400
RH25-90/30	27 - 75	3	Screw	400
RH25-60/60	27 - 75	3	Screw	400
RH25-90/60	27 - 75	3	Screw	400
RH25-120/60	27 - 75	3	Screw	400
RH25- 120/90	27 - 75	3	Screw	400

* Intumescent strip only
NOTE: Fixing screws are not supplied by SIDERISE

SIDERISE RH 'Open State' horizontal cavity barriers

TABLE 5: Fixing requirements

For installation of SIDERISE RH 'Open State' horizontal cavity barriers with galvanised brackets

Product type	Voids (mm)											
	27 – 75			76 – 250			251 – 350			351 – 425		
	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)
RH25G-90/30	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25G-60/60	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25G-90/60	3	Screw	400	3	RS 350	400	3	RS 450*	400	N/A	N/A	N/A
RH25G-120/60	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25G-120/90	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
	60 – 75			76 – 250			251 – 300					
RH50G-30/30	3	Screw	400	3	RS 350	400	3	RS 450	400	N/A	N/A	N/A
RH50G-60/60	3	Screw	400	3	RS 350	400	3	RS 450	400	N/A	N/A	N/A

Note: Fixing screws are not supplied by SIDERISE.

*RH25G-90/60 is only suitable for voids up to 300mm. Please refer to Table 1 for Fire Resistance performance.

TABLE 6: Fixing requirements

For installation of SIDERISE RH 'Open State' horizontal cavity barriers with stainless steel brackets

Product type	Voids (mm)											
	27 – 75			76 – 250			251 – 350			351 – 425		
	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)	Quantity	Type	Centres (mm)
RH25S-90/30	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25S-60/60	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25S-90/60	3	Screw	400	3	RS 350	400	3	RS 450*	400	N/A	N/A	N/A
RH25S-120/60	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
RH25S-120/90	3	Screw	400	3	RS 350	400	3	RS 450	400	3	RS 550	400
	60 – 75			76 – 250			251 – 300					
RH50S-30/30	3	Screw	400	3	RS 350	400	3	RS 450	400	N/A	N/A	N/A
RH50S-60/60	3	Screw	400	3	RS 350	400	3	RS 450	400	N/A	N/A	N/A

Note: Fixing screws are not supplied by SIDERISE.

*RH25S-90/60 is only suitable for voids up to 300mm. Please refer to Table 1 for Fire Resistance performance.

SIDERISE RV VERTICAL CAVITY BARRIERS

PRODUCT DESCRIPTION

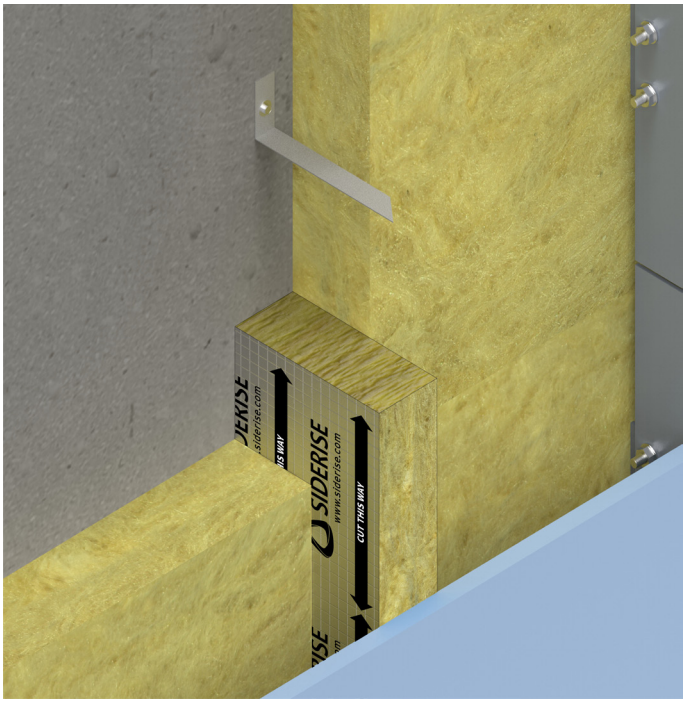
SIDERISE RV vertical cavity barriers for rainscreen cladding applications consist of a non-combustible stonewool lamella core, with reinforced aluminium foil faces, giving an overall reaction to fire performance to Class 'A1' to EN 13501-1.

They are used to full fill the void between the external envelope and internal structure.

The construction offers an excellent resistance to the passage of both smoke and fire. Additionally, by fully sealing the void, they assist ventilated façades to function by maintaining air-pressurisation compartmentation.

Importantly, their unique stonewool lamella core construction enables the vertical barriers to accommodate the serviceability movement normally associated with rainscreen façades.

The leading edge compresses directly against the external envelope. No intumescent strip is required.



SIDERISE RV vertical cavity barrier

STANDARDS AND APPROVALS

SIDERISE RV vertical cavity barriers satisfy the requirements of:

- England – The Building Regulations 2010, Approved Document B (2019 edition) Volume 2, Section 9, diagram 9.1 and item 9.13 (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Wales - The Building Regulations 2010, Approved Document B (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Scotland – Technical Handbook 2. (Provision for cavity barriers requires 30 minutes Integrity only).
- Northern Ireland – Technical Document E. (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).
- Ireland – Technical Guidance Document B. (Provision for cavity barriers requires 30 minutes Integrity and 15 minutes Insulation).

They also meet the higher minimum fire resistance standard for cavity barriers outlined in the LPC Design Guide for the Fire Protection of Buildings. (Provision for cavity barriers requires 30 minutes Integrity and 30 minutes Insulation).

THIRD-PARTY CERTIFICATION

SIDERISE is the first manufacturer to achieve Third-Party Certification for Rainscreen Cavity Barriers.

For full details of SIDERISE RV certified products, including the testing and scope of our Third-Party Certification, please refer to Warringtonfire ewcl5 Certificate Number ME 5101.

This Certificate is available on **www.siderise.com** or by contacting our Technical Support department: **technical@siderise.com**

SIDERISE RV vertical cavity barriers

FIRE TESTING – PRODUCTS

SIDERISE RV vertical cavity barriers have been tested in accordance with EN 1366-4: 2006+A1: 2010.

The tests have been undertaken to assess the ability of the vertical cavity barrier products to reinstate the fire resistance of a lightweight aerated concrete supporting construction. This is the standard assembly for testing such cavity barrier products as it allows the performance of the individual barrier to be classified.

PRODUCT FIRE PERFORMANCE

SIDERISE RV vertical cavity barriers fire performance is based on testing to EN 1366-4:2006+A1: 2010.

The cavity barriers maintained the E and I requirements as detailed in Table 7.

SYSTEM FIRE PERFORMANCE

SIDERISE cavity barrier products have been used in a number of large-scale system tests such as BS 8414(1&2) and NFPA 285. These may be used to evaluate the performance of the SIDERISE cavity barriers within a complete cladding system. The rules for evaluation of results from BS 8414 are subsequently defined in BS 9414.

For information regarding performance and assembly details in system tests please contact the Façades team.

SYSTEM FIRE PERFORMANCE

For details of the testing carried out on our Third-Party Certified SIDERISE RV products please refer to Warringtonfire ewcl5 Certificate Number ME 5101.

This Certificate is available on **www.siderise.com** or by contacting our Technical Support department: **technical@siderise.com**

TABLE 7: Fire performance

For SIDERISE RV vertical cavity barriers

Product type	Product fire classification			Thickness (mm)	Void range (mm)
	Integrity (E)	Insulation (I)	Classification (EI)		
RV-90/30	90	30	30	75	26 – 450
RV-90/60	90	60	60	90	26 – 450
RV-120/120	120	120	120	120	26 – 450

Please note:
Fire classification rating in the above tables refer to performance in product fire tests to EN 1366-4:2006+A1: 2010.
The products have been additionally incorporated in large scale system tests. Please contact the Façades team for further information.
In all cases, we recommend that the specifier and user reviews the specific project configuration with regard to available large-scale system test data and in light of the latest National Building Regulations, local Code and/or government advice.
For voids in greater than 450mm, please contact the Façades team for further information

INSTALLATION RECOMMENDATIONS

SIDERISE RV vertical cavity barriers are installed within the cavity formed between the rainscreen façade and the inner structural wall, using the appropriate **SIDERISE support brackets** (see Table 8).

The RV cavity barrier is fitted vertically under nominal 10mm compression, completely filling the void. The product is installed with the plain mineral fibre edge positioned against the structural wall.

To prevent fire flanking to the rear of the fire stop, any thermal insulation fitted to the outer face of the structural wall must be completely cut away to accommodate the thickness of the vertical cavity barrier.

Adjoining lengths of this product should be tightly abutted to prevent gaps. Joints should be sealed with **SIDERISE foil tape RFT 120/45** to both sides.

A video is available on the website which provides further guidance on the installation of SIDERISE RH and RV cavity barriers.

SUPPORT BRACKETS

A range of **SIDERISE support brackets** for the vertical cavity barriers are available for cavity widths of up to 450mm (see Table 8). Lengths of the barrier are supported with these dedicated brackets, which impale the product at mid thickness to depth 75% of void.

The brackets are supplied as standard in 1mm galvanised mild steel in a flat form for site folding. They incorporate pre-notched indents to aid this process.

The brackets are drilled on site and secured to the inner structural wall using non-combustible steel anchors or screws. These fixings are not supplied by SIDERISE.

Brackets are installed at 600mm fixing centres (300mm from each end).

Please note:
For voids up to 50mm: measured cavity + 5mm compression is required; for voids greater than 50mm: measured cavity +10mm compression is required.

SIDERISE RH horizontal cavity barriers are installed so that they terminate each side of the RV vertical cavity barriers.

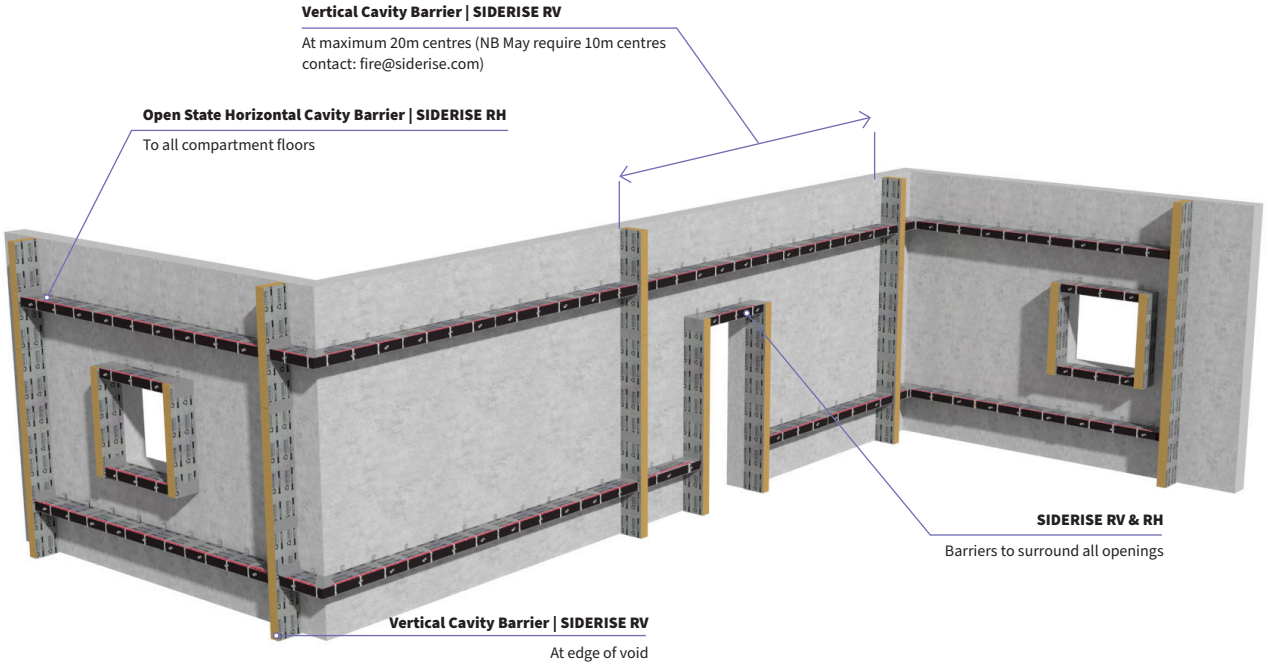
TABLE 8: Brackets and centres

For installation of SIDERISE vertical cavity barriers

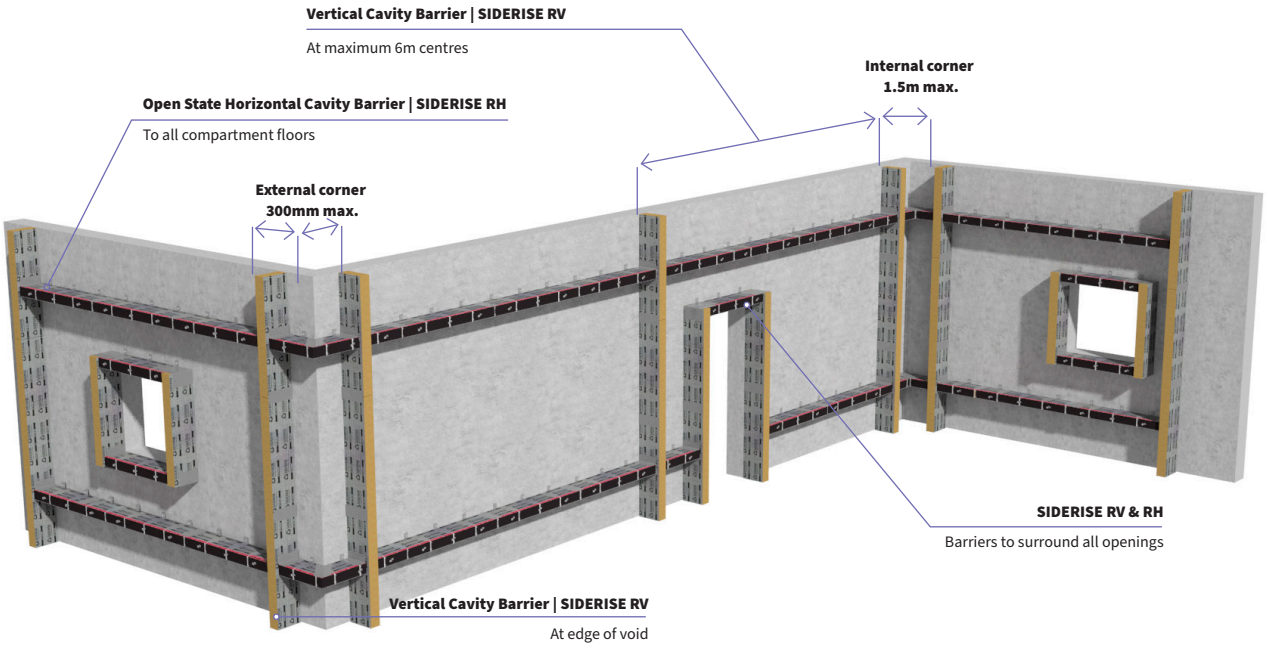
Product type	Voids (mm)									
	26 – 50		51 – 150		151 – 240		241 – 300		301 – 450	
RV-90/30	N/A	N/A	B65/110	600 Ctrs	B195	600 Ctrs	B355	600 Ctrs	B355	600 Ctrs
RV-90/60	N/A	N/A	B65/110	600 Ctrs	B195	600 Ctrs	B355	600 Ctrs	B355	600 Ctrs
RV-120/120	N/A	N/A	B65/110	600 Ctrs	B195	600 Ctrs	B355	600 Ctrs	B355	600 Ctrs

SIDERISE RV vertical cavity barriers

COMPARTMENTATION: APPROVED DOCUMENT B, 2019 EDITION, VOLUME 2. ENGLAND AND WALES



COMPARTMENTATION: NHBC GUIDELINES 6.9.18



Please note:
The above illustrations reflect typical cavity barrier locations and are presented for guidance purposes only. Please refer separate installation instructions. The specifier and user must seek formal approval regarding cavity barrier location requirements on a project basis.

Extract from Approved Document B, Volume 2 Table 9.1

Maximum dimensions of cavities

Location of cavity	European Classification of surface/product exposed in cavity (excluding the surface of any pipe, cable or conduit, or any insulation to any pipe)	Maximum dimensions in any direction (m)
Between roof and a ceiling	Any	20
Any other cavity	Class A1 or Class A2-s3, d2 or Class B-s3, d2 or Class C-s3, d2	20
	Not any of the above classes	10

Please note:
The facade designer needs to satisfy themselves that the insulation being used complies with the correct European class, i.e. the four listed above. This does not apply to intumescent and fire stopping materials where the inclusion of the materials is necessary to meet the requirements of Part B of Schedule 1 - Regulation 7(3)(f). Details of the European class can be obtained from the insulation manufacturer from their Declaration of Performance (DoP), following Construction Products Regulation (CPR) and Product Standard EN 13162.

TECHNICAL SPECIFICATION

SIDERISE RH 'Open State' horizontal cavity barriers

Form supplied	1200mm long. Supplied pre-cut in width to suit advised void size
Colour	Horizontal – RH25(G/S) – black leading edge / green, orange, purple, yellow or grey coloured identification tape (see page 3) Horizontal – RH50(G/S) – black leading edge / red or blue identification tape
Finish	Aluminium foil to top and bottom surfaces
Density	Nominal 75 kg/m^3
Thermal conductivity	λ_{10} = 0.038 W/m.K (tested foil to foil)
Void sizes	RH25-90/30 permissible for voids up to 400mm + 25mm air gap = 425mm o/a void RH25-60/60 permissible for voids up to 400mm + 25mm air gap = 425mm o/a void RH25-90/60 permissible for voids up to 275mm + 25mm air gap = 300mm o/a void RH25-120/60 permissible for voids up to 400mm + 25mm air gap = 425mm o/a void RH25-120/90 permissible for voids up to 400mm +25mm air gap = 425mm o/a void RH50-30/30 permissible for voids up to 250mm + 50mm air gap = 300mm o/a void RH50-60/60 permissible for voids up to 250mm + 50mm air gap = 300mm o/a void
Fire resistance	For product fire performance see Tables 1, 2 and 3
Reaction to fire	The primary stonewool seal is Euro Class 'A1' to EN 13501-1 The reactive intumescent along the leading edge is Euro Class 'E' to EN 13501-1. N.B. exempt by Regulation 7(3)(f)

SIDERISE RV vertical cavity barriers

Form supplied	1200mm long. Supplied pre-cut in width to suit advised void size
Colour	No colour. Stonewool exposed to leading edge
Finish	Aluminium foil to surfaces exposed to cavity
Density	Nominal 75 kg/m^3
Thermal conductivity	λ_{10} = 0.038 W/m.K (tested foil to foil)
Void sizes	RV-90/30 permissible for voids up to 450mm RV-90/60 permissible for voids up to 450mm RV-120/120 permissible for voids up to 450mm
Fire resistance	For product fire performance see Table 7
Reaction to fire	Euro Class 'A1' to EN 13501-1

SIDERISE®
FAÇADES

PRODUCTS AVAILABLE

The following SIDERISE products are available.

- SIDERISE RH 'Open State' horizontal cavity barriers – RH50(G/S) and RH25(G/S)
- SIDERISE RV vertical cavity barriers
- SIDERISE foil tape: Type RFT 120/45
- SIDERISE support brackets – galvanised or stainless steel options

DOCUMENTS AVAILABLE

The following information is available upon request or via download from the website:

- NBS Specification Clause
- Safety Data Sheet
- Installation Instructions

SPECIFICATION

SIDERISE offer specifiers support from initial enquiry and technical consultation to project realisation. NBS draft specifications are provided for standard products and applications and can be tailored to suit specific project performance requirements.

TECHNICAL & SALES SUPPORT

SALES SUPPORT

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SITE SERVICES SUPPORT

SIDERISE offer a range of services to contractors and installers. These include toolbox product installation and site installation inspection and reporting (subject to availability and by agreement).

Site Services Team
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E: site.services@siderise.com

SYSTEM TESTING SUPPORT

SIDERISE can provide assistance and advice for large scale system testing to BS, EN, NFPA , ASTM and AS standards.

We can assist with the design and facilitation of tests in UK, Europe, UAE, USA and Australia. If you would like to discuss how we might be able to help with the assembly specification, in the first instance please contact the Testing Support team.

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