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**Solutions**

**Prepared by:**

UL International (UK) Ltd

**Approved body No.:**

0843

**Product Name:**

ROCKWOOL® SCB (Sleeved Cavity Barrier)

**Project No.:**

4791060701.1

**Report No.:**

4791060701.1-01

**Issue number:**

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**Date of Issue:**

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**4705**

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## 1. Introduction

This classification report defines the classification assigned to the element ROCKWOOL® SCB, in accordance with the procedures given in BS EN 13501-2: 2016.

## 2. Details of classification product

### 2.1 General

The element, ROCKWOOL® SCB, is defined as a fire resisting linear joint seal to be used to seal joints, voids, gaps or other discontinuities within one or between two or more construction elements.

ROCKWOOL® SCB is manufactured from non-combustible stone wool, encapsulated within a resilient polythene sleeve which eliminates the need for weather protection during installation. The SCB's are designed for both vertical and horizontal installations within a range of supporting constructions. The sleeves are installed under a compression fit of 10mm.

### 2.2 Product description

The element, ROCKWOOL® SCB, is fully described in the test reports provided in support of classification detailed in clause 3.1.

## 3. Test reports in support of classification

### 3.1 Summary of test reports

Wall Tests

Name of laboratory	Name of sponsor	Test Reference	Test Date	Test method
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	521258/R	24/11/2022	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	521533/R	16/11/2022	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	535662/R	30/08/2023	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	535150/R	23/08/2023	BS EN 1366-4 2021

## Floor Tests

<b>Name of laboratory</b>	<b>Name of sponsor</b>	<b>Test Reference</b>	<b>Test Date</b>	<b>Test method</b>
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	522758/R	11/09/2022	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	521533/R	16/11/2022	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	521529/R	30/09/2022	BS EN 1366-4 2021
Warringtonfire Testing and Certification Limited - Notified Body No. 1121	Rockwool Limited	537524/R	27/10/2023	BS EN 1366-4 2021

### 3.2 Results

Summary of report No.: WF No. 521258/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on wall mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	69	69	54
B	69	69	55
C	46	46	46
D	69	69	57
E	69	69	58

Summary of report No.: WF No. 521533/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on both wall mounted and floor mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	91	91	76
B	91	91	73
C	91	91	91
D	91	91	59
E	91	91	77
F	85	85	39
G	86	86	49
H	91	91	48
I	91	91	12

Summary of report No.: WF No. 535662/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on wall mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	145	145	145
B	145	145	145
C	142	142	127

Summary of report No.: WF No. 535150/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on wall mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	132	132	132
B	132	132	132
C	132	132	132
D	113	113	113
E	132	132	132
F	132	132	103
G	132	132	132

Summary of report No.: WF No. 522758/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on floor mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	23	25	18
B	25	25	25
C	66	66	26
D	66	66	30
E	66	66	33
F	66	66	35
G	66	66	20

Summary of report No.: WF No. 521529/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on floor mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	132	132	50
B	132	132	44
C	132	132	32
D	93	93	22
E	69	69	39
F	93	93	9
G	123	123	16

Summary of report No.: WF No. 537524/R

A fire resistance test in accordance with BS EN 1366-4: 2021, on floor mounted cavity barrier systems.

Specimen	Integrity (minutes)		Insulation (minutes)
	Cotton pad	Sustained flames	
A	132	132	49
B	118	132	55

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2016.

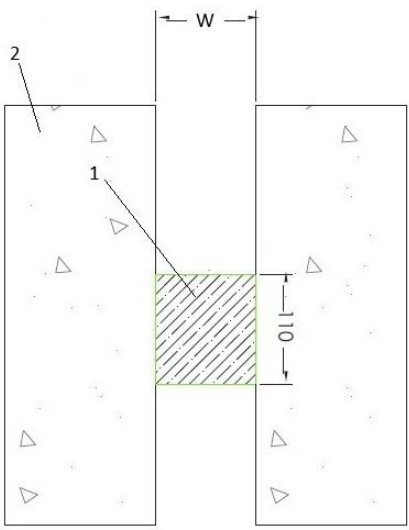
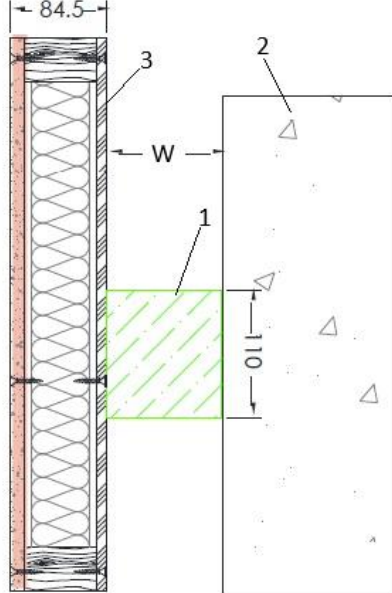
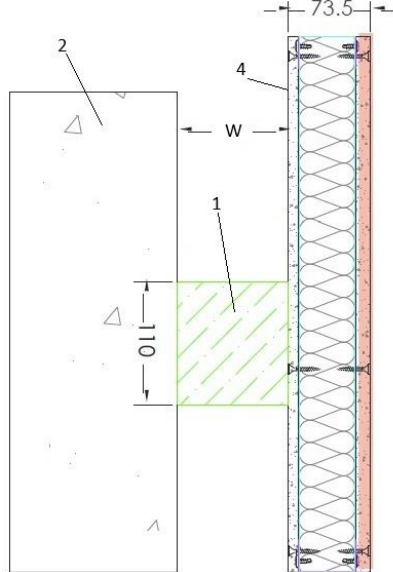
##### 4.2 Classification

The element, ROCKWOOL® SCB is classified according to the following combinations of performance parameters and classes as appropriate.

R	E	I	W		t	t	-	M	C	S	IncSlow	sn	ef	r
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Considering the tests submitted for classification, ROCKWOOL® SCB provides the following classification for the tested seal type:

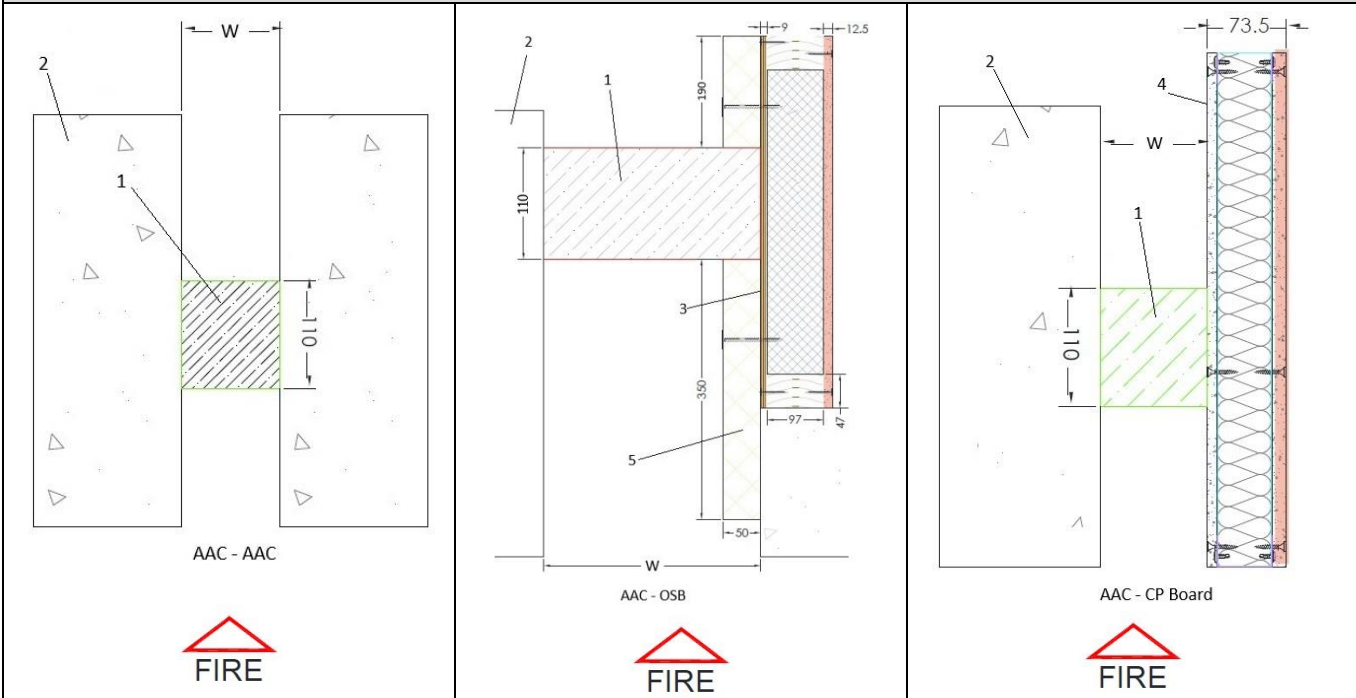
**Horizontally oriented ROCKWOOL® SCB in 50 – 100 mm wide cavities**

Product: ROCKWOOL® SCB - 110mm			
 <p>AAC - AAC</p> <p>FIRE</p>	 <p>OSB - AAC</p> <p>FIRE</p>	 <p>AAC - CP Board</p> <p>FIRE</p>	
<p>1. ROCKWOOL® SCB                  2. AAC Concrete                  3. 9mm thick OSB board                  4. 9mm thick Cement particle board</p>			
Horizontally oriented ROCKWOOL® SCB - 110mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
110 mm	10mm	Aerated concrete / Aerated concrete	E 120 – H – X – F – W 50 to W 100 EI 45 – H – X – F – W 50 to W 100
110 mm	10mm	Aerated concrete / Timber (OSB)	E 60 – H – X – F – W 50 to W 100 EI 45 – H – X – F – W 50 to W 100
110 mm	10mm	Aerated concrete / SFS (CP board)	E 90 – H – X – F – W 50 to W 100 EI 45 – H – X – F – W 50 to W 100
<p>ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.</p>			



**Horizontally oriented ROCKWOOL® SCB in 101 – 290 mm wide cavities**

**Product: ROCKWOOL® SCB - 110mm**



1. ROCKWOOL® SCB
2. AAC Concrete
3. 9mm thick OSB board
4. 9mm thick Cement particle board
5. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)

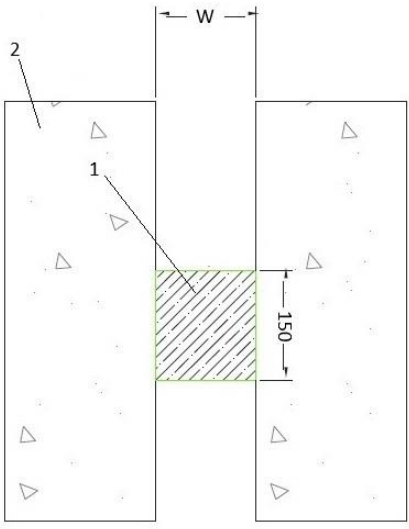
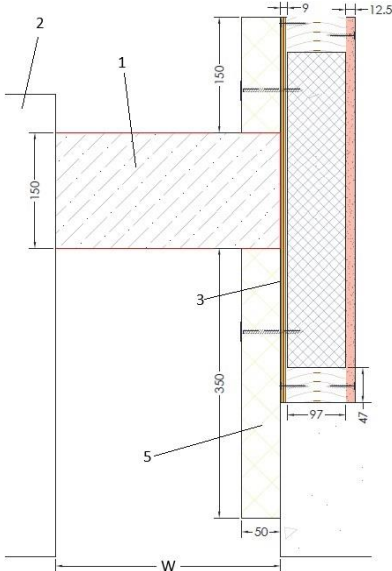
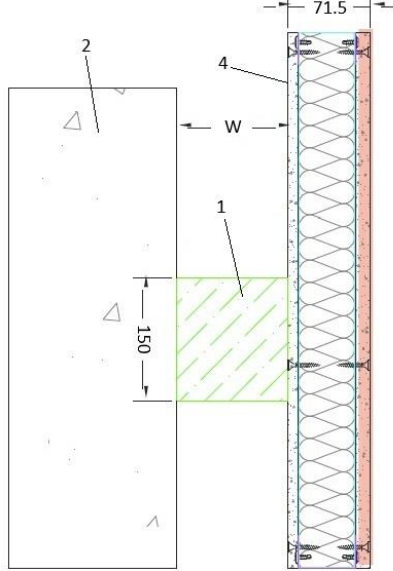
**Horizontally oriented ROCKWOOL® SCB - 110mm**

Thickness of Product	Compression (Minimum)	Element of construction	Classification
110 mm	10 mm	Aerated concrete / Aerated concrete	E 60 – H – X – F – W 101 to W 290 EI 30 – H – X – F – W 101 to W 290
110 mm	10 mm	Aerated concrete / Timber OSB*	E 120 – H – X – F – W 101 to W 290 EI 45 – H – X – F – W 101 to W 290
110 mm	10 mm	Aerated concrete / SFS (CP board)	E 60 – H – X – F – W 101 to W 290 EI 20 – H – X – F – W 101 to W 290

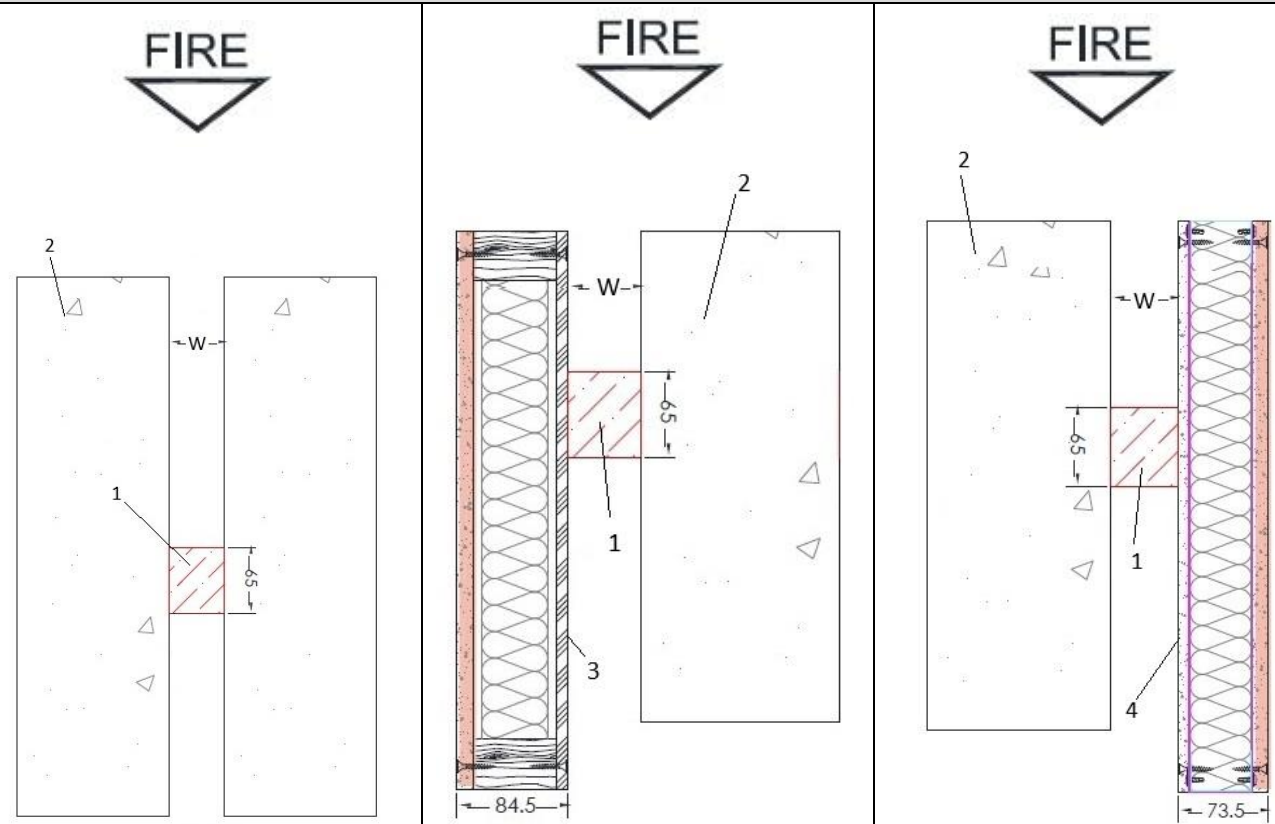
ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.

**\*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed above and below the cavity barrier adjacent to the OSB board, continuing a minimum of 190 mm above the cavity and 350 mm below the cavity.**

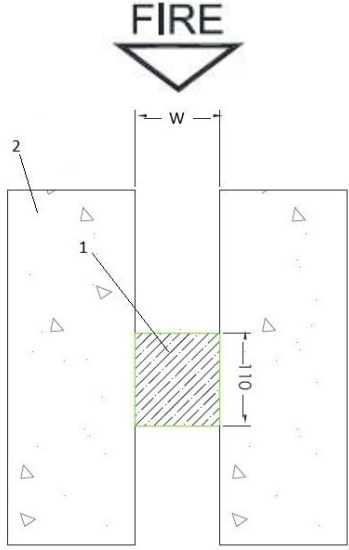
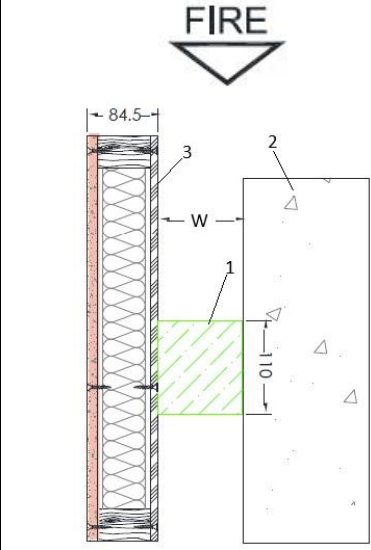
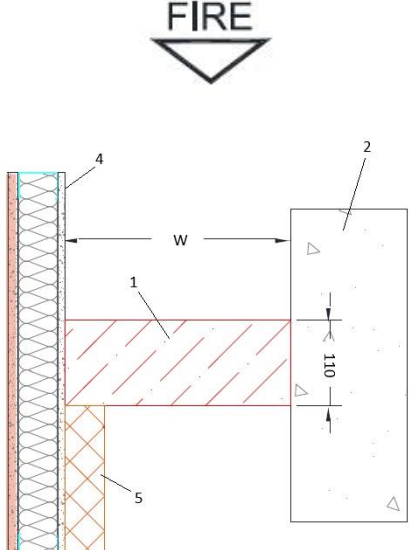
**Horizontally oriented ROCKWOOL® SCB in 50 – 290 mm wide cavities**

Product: ROCKWOOL® SCB - 150mm			
 <p>AAC - AAC</p> <p>FIRE</p>	 <p>AAC - OSB</p> <p>FIRE</p>	 <p>AAC - CP Board</p> <p>FIRE</p>	
<ol style="list-style-type: none"> <li>1. ROCKWOOL® SCB</li> <li>2. AAC Concrete</li> <li>3. 9mm thick OSB board</li> <li>4. 9mm thick Cement particle board</li> <li>5. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)</li> </ol>			
Horizontally oriented ROCKWOOL® SCB - 150mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
150 mm	10 mm	Aerated concrete / Aerated concrete	E 60 – H – X – F – W 50 to W 290 EI 30 – H – X – F – W 50 to W 290
150 mm	10 mm	Aerated concrete / OSB*	E 90 – H – X – F – W 50 to W 290 EI 45 – H – X – F – W 50 to W 290
150 mm	10 mm	Aerated concrete / SFS (CP board)	E 60 – H – X – F – W 50 to W 290 EI 30 – H – X – F – W 50 to W 290
<p>ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.</p> <p><b>*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed above and below the cavity barrier adjacent to the OSB board, continuing a minimum of 150 mm above the cavity and 350 mm below the cavity.</b></p>			

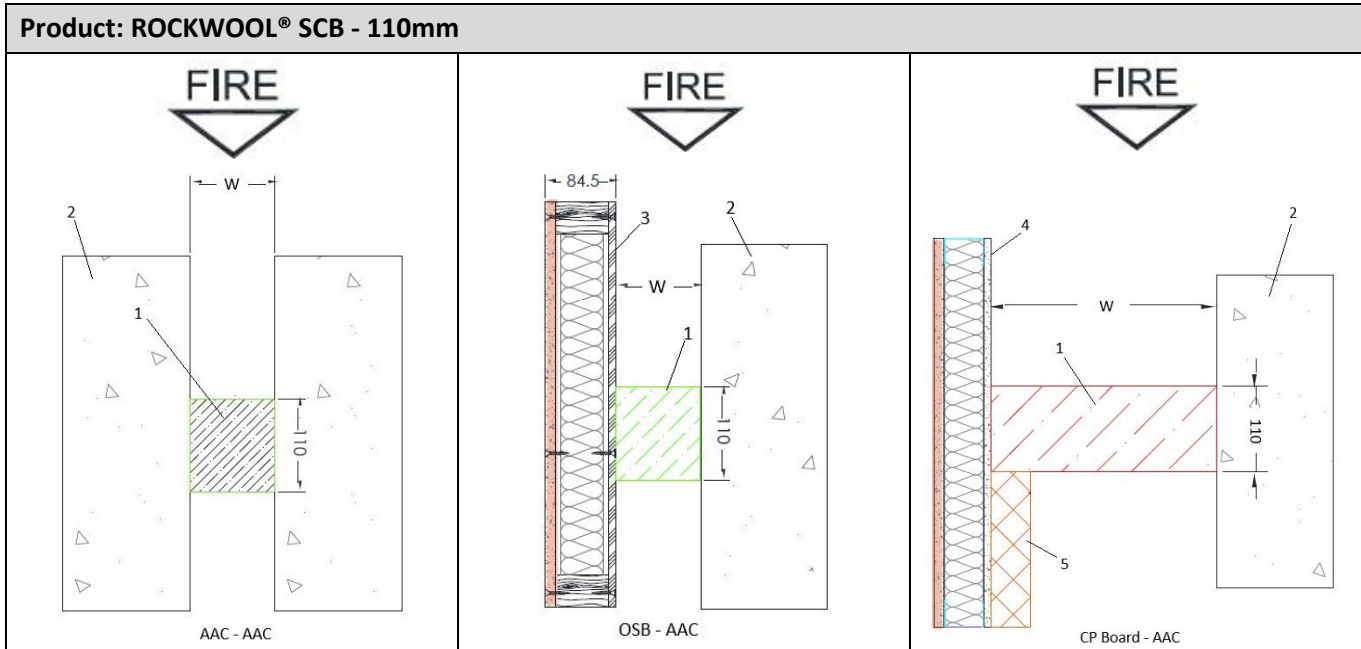
**Vertically oriented ROCKWOOL® SCB in 50 – 55 mm wide cavities**

Product: ROCKWOOL® SCB - 65mm			
			
<p>1. ROCKWOOL® SCB                  2. AAC Concrete                  3. 9mm thick OSB board                  4. 9mm thick Cement particle board</p>			
Vertically oriented ROCKWOOL® SCB - 65mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
65 mm	10 mm	Aerated concrete / Aerated concrete	E 90 – V – X – F – W 50 to W 55 EI 60 – V – X – F – W 50 to W 55
65 mm	10 mm	Aerated concrete / Timber (OSB)	E 90 – V – X – F – W 50 to W 55 EI 60 – V – X – F – W 50 to W 55
65 mm	10 mm	Aerated concrete / SFS (CP board)	E 90 – V – X – F – W 50 to W 55 EI 60 – V – X – F – W 50 to W 55
ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.			

**Vertically oriented ROCKWOOL® SCB in 56 – 100 mm wide cavities**

Product: ROCKWOOL® SCB - 110mm			
 <p>AAC - AAC</p>		 <p>OSB - AAC</p>	
 <p>CP Board - AAC</p>		<ol style="list-style-type: none"> <li>1. ROCKWOOL® SCB</li> <li>2. AAC Concrete</li> <li>3. 9mm thick OSB board</li> <li>4. 9mm thick Cement particle board</li> <li>5. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)</li> </ol>	
Vertically oriented ROCKWOOL® SCB - 110mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
110 mm	10mm	Aerated concrete / Aerated concrete	E 90 – V – X – F – W 56 to W 100 EI 45 – V – X – F – W 56 to W 100
110 mm	10mm	Aerated concrete / Timber (OSB)	EI 45 – V – X – F – W 56 to W 100
110 mm	10mm	Aerated concrete / SFS (CP board)*	E 60 – V – X – F – W 56 to W 100 EI 45 – V – X – F – W 56 to W 100
<p>ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.</p> <p><b>*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> continuing a minimum of 195mm from the unexposed face of the cavity barrier adjacent to the OSB board.</b></p>			

**Vertically oriented ROCKWOOL® SCB in 101 – 290 mm wide cavities**



- 6. ROCKWOOL® SCB
- 7. AAC Concrete
- 8. 9mm thick OSB board
- 9. 9mm thick Cement particle board
- 10. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)

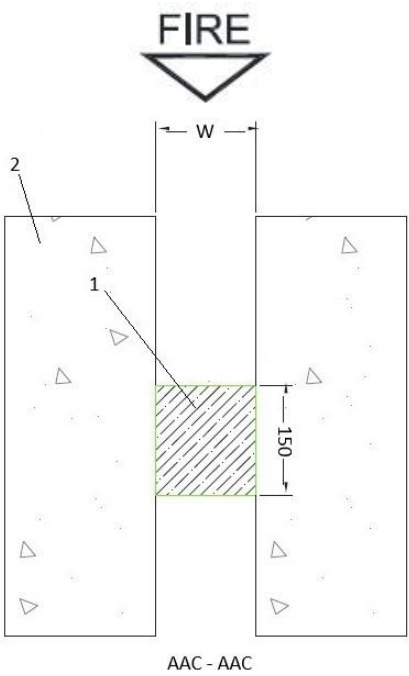
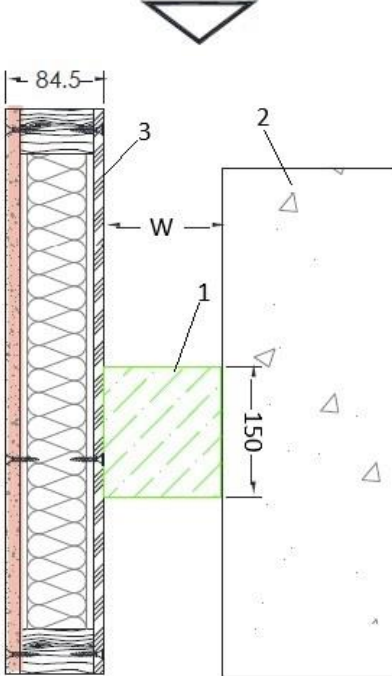
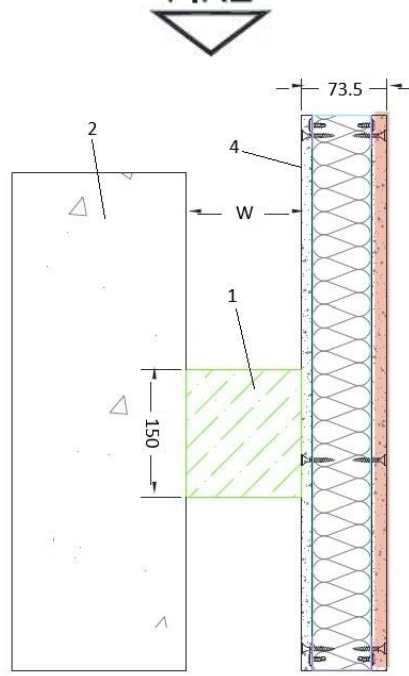
**Vertically oriented ROCKWOOL® SCB - 110mm**

Thickness of Product	Compression (Minimum)	Element of construction	Classification
110 mm	10 mm	Aerated concrete / Aerated concrete	E 60 – V – X – F – W 101 to W 290 EI 45 – V – X – F – W 101 to W 290
110 mm	10 mm	Aerated concrete / Timber (OSB)	EI 45 – V – X – F – W 101 to W 290
110 mm	10 mm	Aerated concrete / SFS (CP board)*	E 60 – V – X – F – W 101 to W 290 EI 45 – V – X – F – W 101 to W 290

ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.

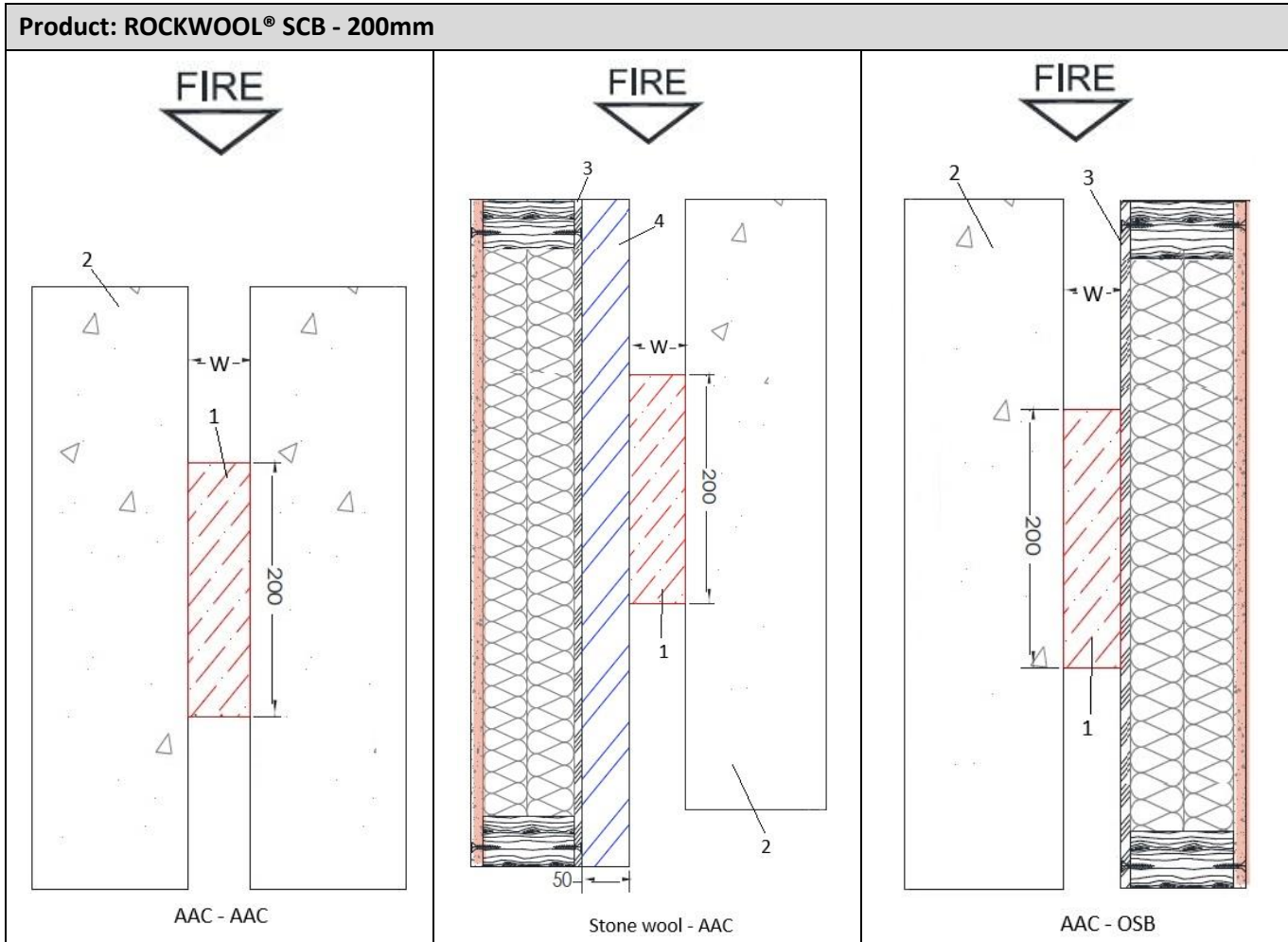
**\*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> continuing a minimum of 195mm from the unexposed face of the cavity barrier adjacent to the OSB board.**

**Vertically oriented ROCKWOOL® SCB in 101 – 290 mm wide cavities**

Product: ROCKWOOL® SCB - 150mm			
 <p style="text-align: center;">AAC - AAC</p>			
 <p style="text-align: center;">OSB - AAC</p>			
 <p style="text-align: center;">AAC - CP Board</p>			
<ol style="list-style-type: none"> <li>1. ROCKWOOL® SCB</li> <li>2. AAC Concrete</li> <li>3. 9mm thick OSB board</li> <li>4. 9mm thick Cement particle board</li> </ol>			
Vertically oriented ROCKWOOL® SCB - 150mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
150 mm	10 mm	Aerated concrete / Aerated concrete	E 60 – V – X – F – W 101 to W 290 EI 45 – V – X – F – W 101 to W 290
150 mm	10 mm	Aerated concrete / Timber (OSB)	EI 45 – V – X – F – W 101 to W 290
150 mm	10 mm	Aerated concrete / SFS (CP board)	E 60 – V – X – F – W 101 to W 290 EI 45 – V – X – F – W 101 to W 290
ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.			



**Vertically oriented ROCKWOOL® SCB in 50 – 60 mm wide cavities**



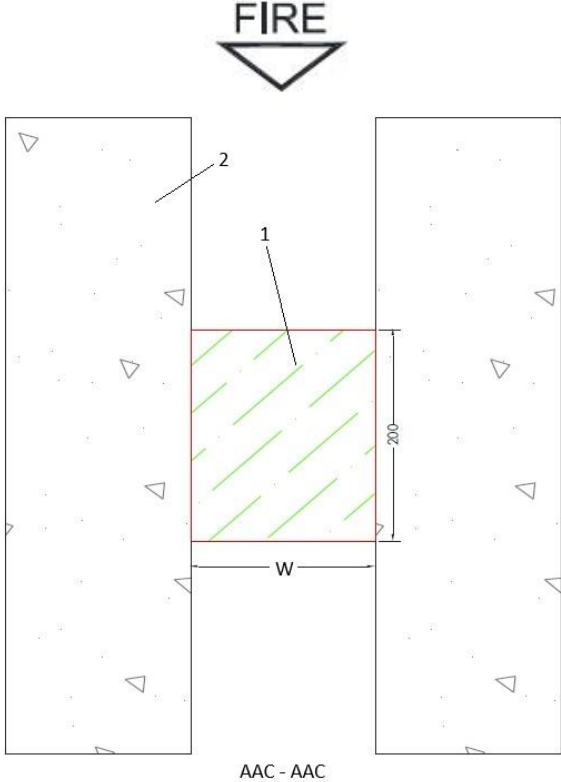
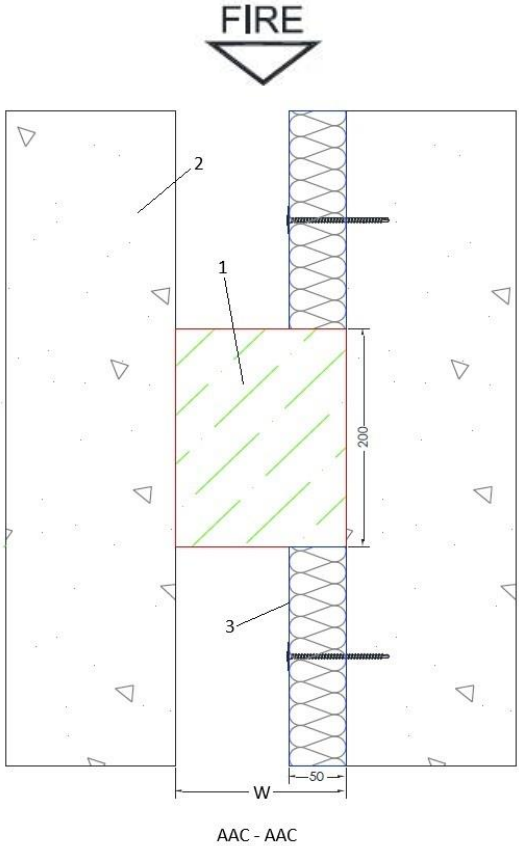
1. ROCKWOOL® SCB
2. AAC Concrete
3. 9mm thick OSB board
4. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)

**Vertically oriented ROCKWOOL® SCB - 200mm**

Thickness of Product	Compression (Minimum)	Element of construction	Classification
200 mm	5 mm	Aerated concrete / Aerated concrete	EI 120 – V – X – F – W 50 to W 60
200 mm	5 mm	Aerated concrete / 60kg Stone mineral wool over timber (OSB)	EI 120 – V – X – F – W 50 to W 60
200 mm	10 mm	Aerated concrete / Timber (OSB)	EI 120 – V – X – F – W 50 to W 55

ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.

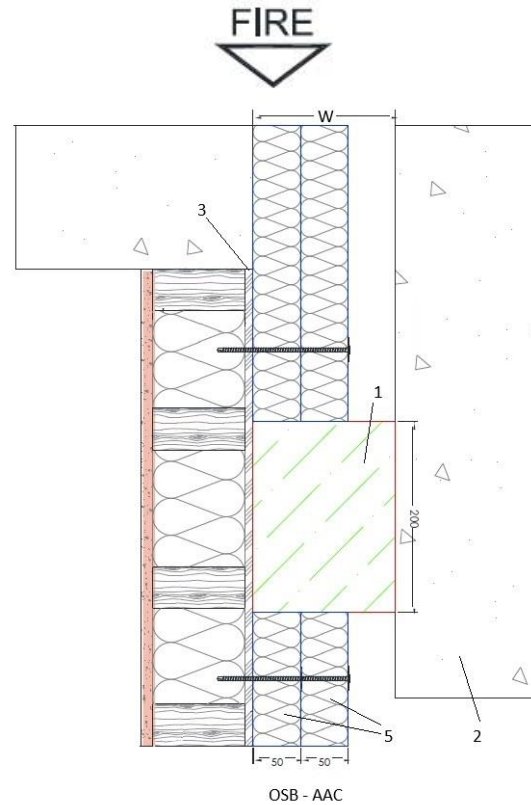
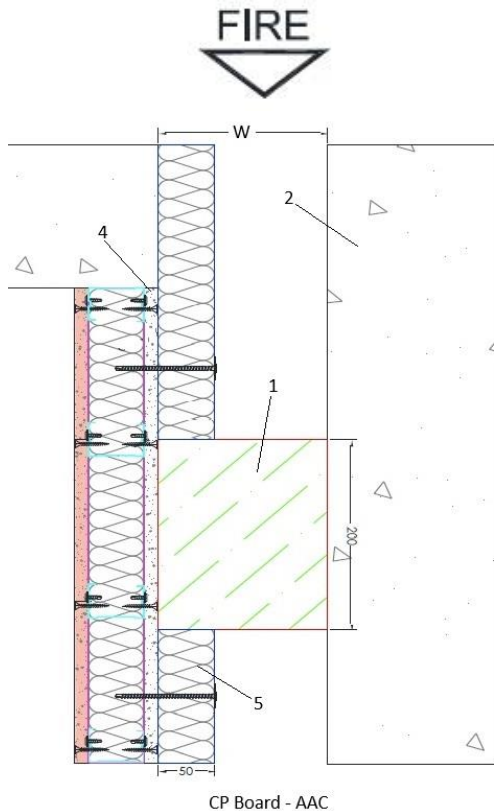
**Vertically oriented ROCKWOOL® SCB in 61 – 150 mm wide cavities**

Product: ROCKWOOL® SCB - 200mm			
 <p style="text-align: center;">AAC - AAC</p>		 <p style="text-align: center;">AAC - AAC</p>	
<p>1. ROCKWOOL® SCB                  2. AAC Concrete                  3. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)</p>			
Vertically oriented ROCKWOOL® SCB - 200mm			
Thickness of Product	Compression (Minimum)	Element of construction	Classification
200 mm	10 mm	Aerated concrete / Aerated concrete	EI 120 – V – X – F – W 61 to W 150
200 mm	10 mm	Aerated concrete / Aerated concrete*	EI 120 – V – X – F – W 61 to W 150
<p>ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.</p> <p><b>*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed to both faces of the cavity barrier adjacent to the OSB board, continuing through the cavity.</b></p>			



**Vertically oriented ROCKWOOL® SCB in 56 – 150 mm wide cavities**

**Product: ROCKWOOL® SCB - 200mm**



1. ROCKWOOL® SCB
2. AAC Concrete
3. 9mm thick OSB board
4. 12mm thick Cement particle board
5. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)

**Vertically oriented ROCKWOOL® SCB - 200mm**

Thickness of Product	Compression (Minimum)	Element of construction	Classification
200 mm	10 mm	Aerated concrete / SFS (CP Board)*	EI 120 – V – X – F – W 56 to W 150
200 mm	10 mm	Aerated concrete / Timber (OSB)**	EI 120 – V – X – F – W 56 to W 150

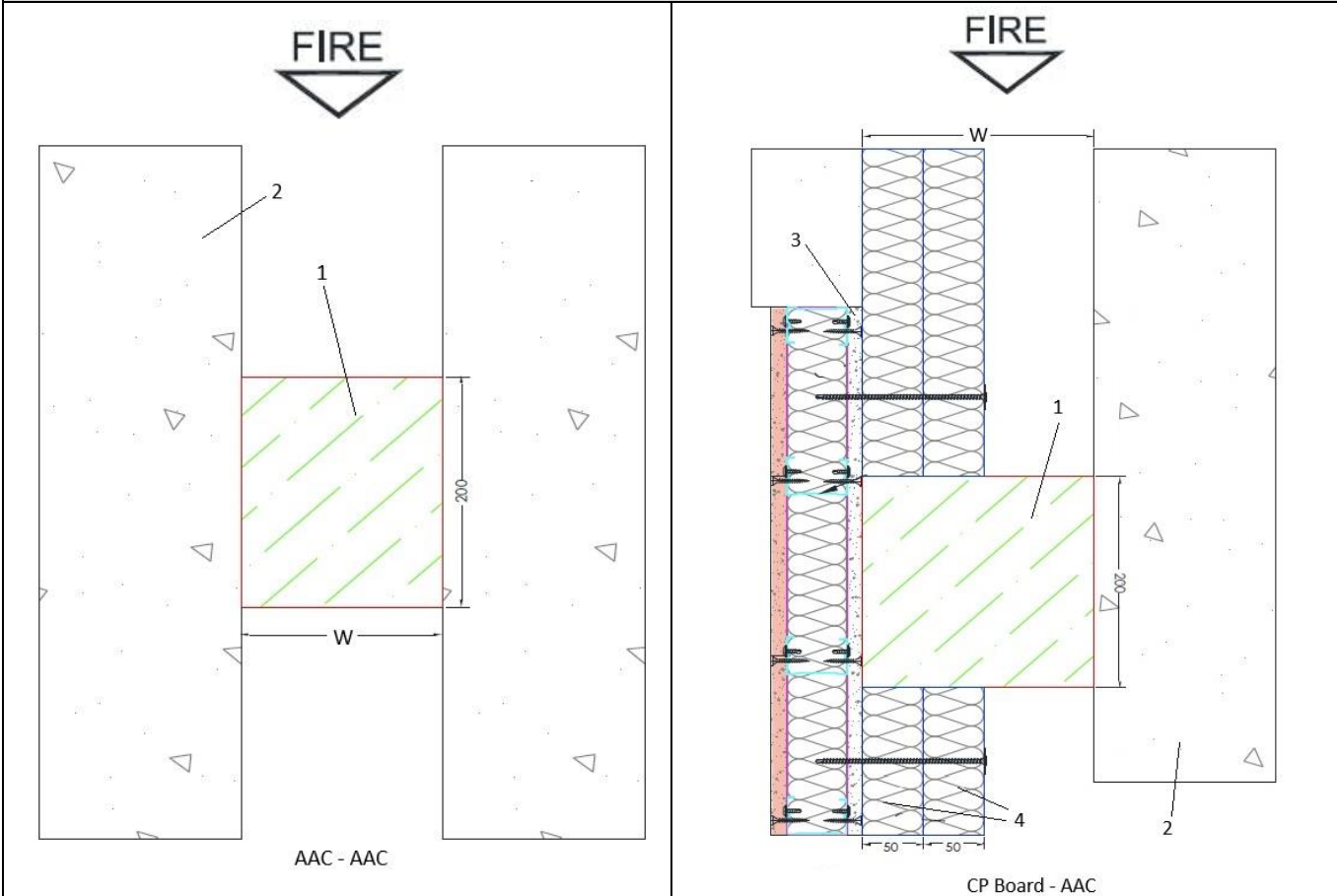
ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.

**\*Minimum 50 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed to both faces of the cavity barrier adjacent to the OSB board, continuing through the cavity.**

**\*\*Minimum 100 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed to both faces of the cavity barrier adjacent to the OSB board, continuing through the cavity.**

**Vertically oriented ROCKWOOL® SCB in 151 – 190 mm wide cavities**

**Product: ROCKWOOL® SCB - 200mm**



1. ROCKWOOL® SCB
2. AAC Concrete
3. 12mm thick Cement particle board
4. 50mm thick stone mineral wool insulation (60kg/m<sup>3</sup>)

**Vertically oriented ROCKWOOL® SCB - 200mm**

Thickness of Product	Compression (Minimum)	Element of construction	Classification
200 mm	10 mm	Aerated concrete / Aerated concrete	E 120 – V – X – F – W 151 to W 190 EI 90 – V – X – F – W 151 to W 190
200 mm	10 mm	Aerated concrete / SFS (CP Board)*	EI 120 – V – X – F – W 151 to W 190

ROCKWOOL® SCB compress fitted into the gap/joint, with a minimum compression as shown above.

**\*Minimum 100 mm thick stone mineral wool insulation with a minimum density of 60 kg/m<sup>3</sup> installed to both faces of the cavity barrier adjacent to the OSB board, continuing through the cavity.**

### 4.3 Field of Application – Linear Joint and Gap Seals

This classification is valid for the following end use applications (as defined in EN1366-4: 2021, referencing the following appropriate clauses of EN1366-4: 2021).

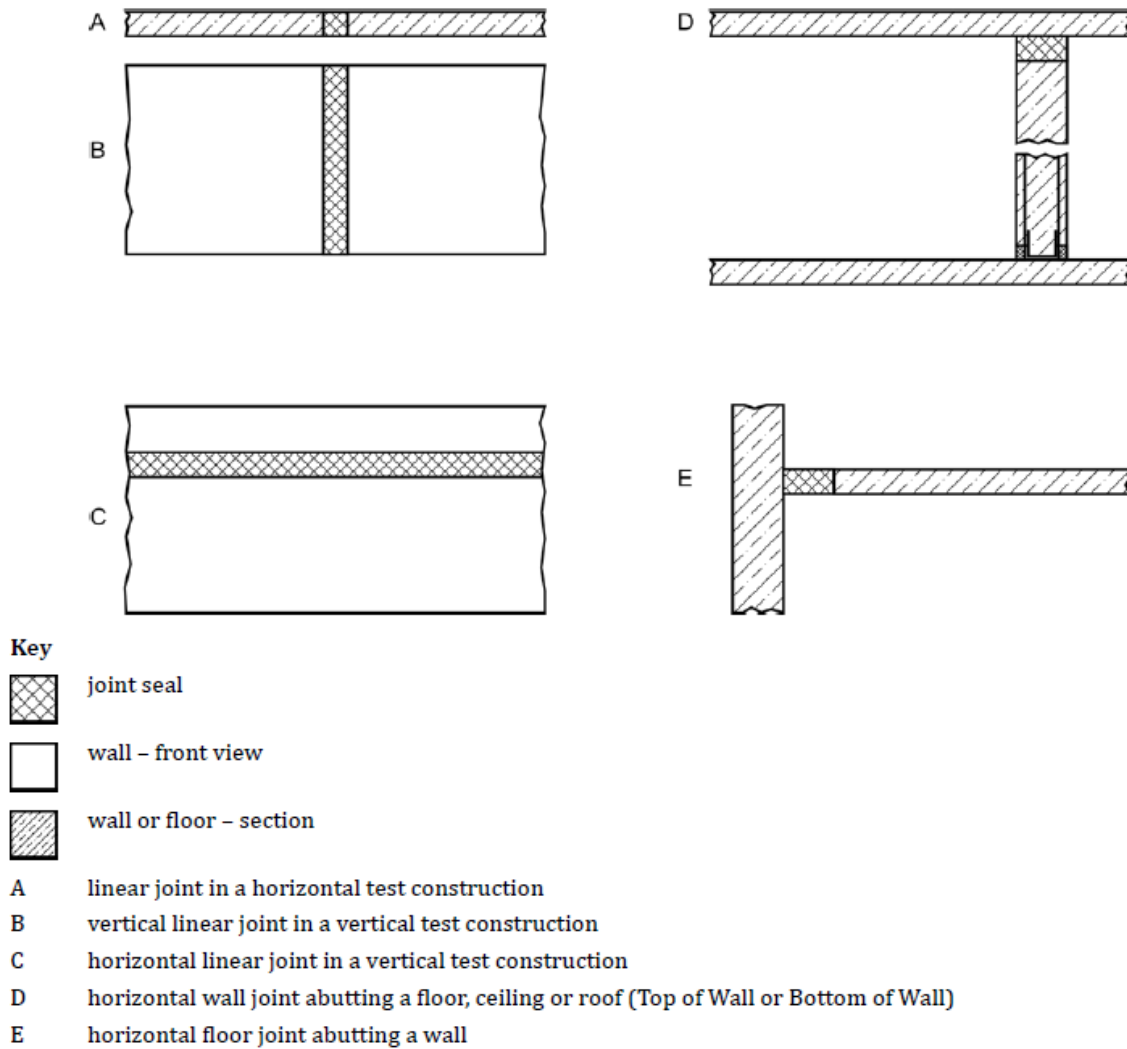
#### 13.1 Orientation

The field of application regarding the orientation of the linear joint is given in Table 2. The possible orientation of linear joints (A to E) and of the specimens in the test (A to C) is illustrated in Figure 28.

**Table 2 – Field of direct application regarding orientation**

Orientation tested	Application
A	A, C, E <sup>a</sup>
B	B
D	C, D
<b>Key</b>	
A	linear joint in a horizontal test construction
B	vertical linear joint in a vertical test construction
C	horizontal linear joint in a vertical test construction
D	horizontal wall joint abutting a floor, ceiling or roof
E	horizontal floor joint abutting a wall
<sup>a</sup> Orientation E will only be covered by test orientation A if shear movement was chosen and one face of the joint was fixed and the other face was moved.	

Table 2 only applies when both the supporting construction and the location of the seal within the linear joint remain unchanged. See 13.3.



**Figure 28 — Test and application orientation of joint seals**

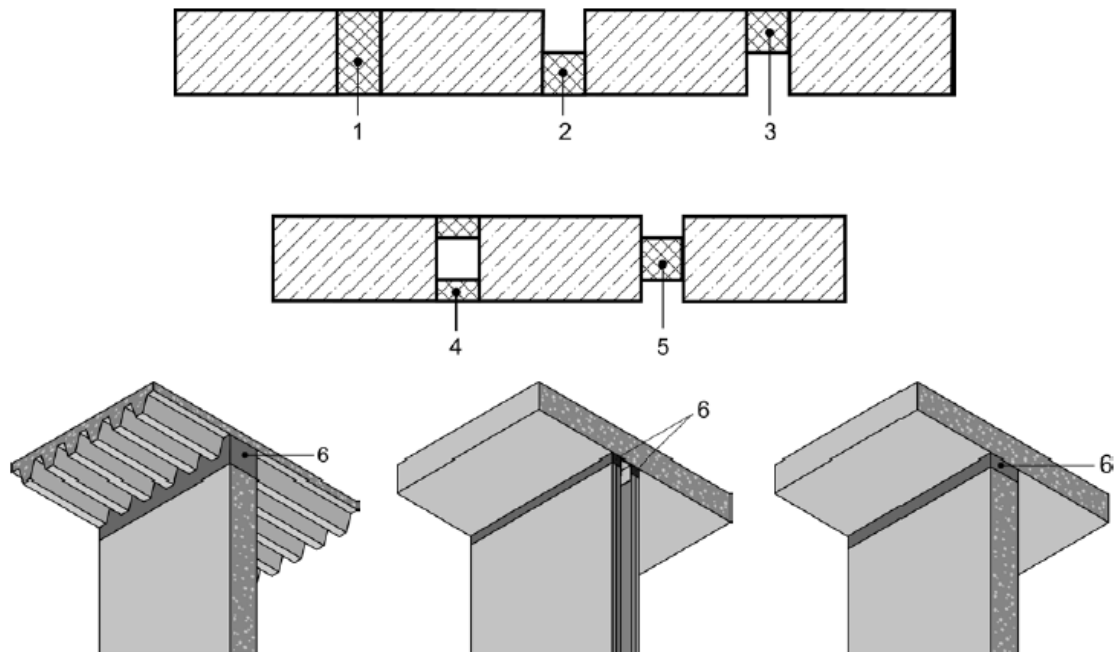
**13.2 Supporting construction**

Results obtained with autoclaved aerated concrete standard supporting constructions apply to aerated concrete, concrete, blockwork and masonry separating elements of a thickness and density equal to or greater than tested.

Test results obtained on a specific non-standard supporting construction apply only to that particular construction.

### 13.3 Seal position

Test results are valid only for the position (see Figure 17) in which the seal was tested, except that where the linear joint seal was fitted flush with the surface of the supporting construction and is exposed to the fire (see Figure 17, position 2), the result may also be applied to linear joint seals with positions 3 and 5.



#### Key

- 1 joint seal fills joint
- 2 joint seal at bottom of joint
- 3 joint seal at top of joint
- 4 joint seal forms one or more air cavities
- 5 joint seal centred in joint
- 6 joint seal at top of wall (flexible wall adjacent to a floor)

Figure 17 — Examples of joint seal position in a joint

### 13.5 Dimensions

Linear joint seal made of mineral wool (faced)

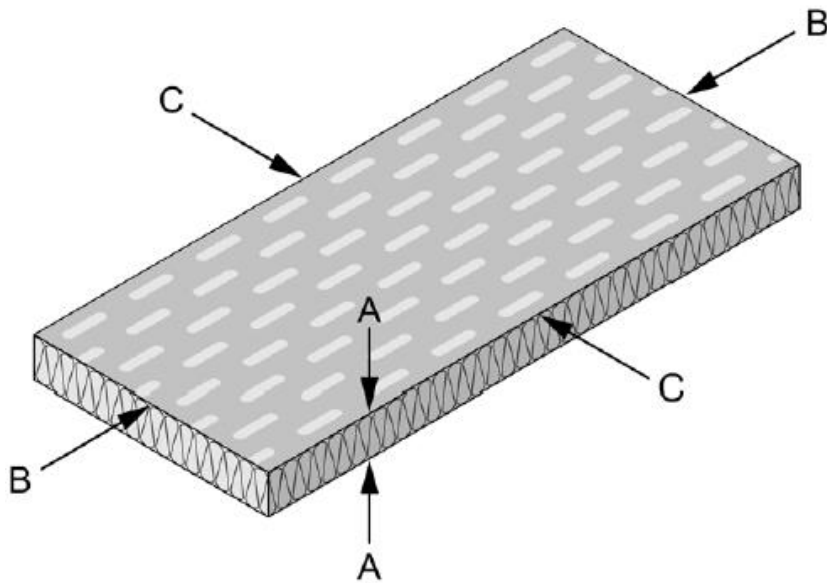
The results of a seal compressed in the A<>A direction (see Figure 4) cover smaller joint width, provided the degree of compression (%) exerted on the seal is equal to or greater than that used in the test.

The results of a seal compressed in the B<>B or C<>C directions (see Figure 4) cover smaller joint width and/or higher compression, provided the compression applied is not sufficient to induce a mechanical failure of the seal e.g. a de-lamination fracture of the mineral wool or facing.

The depth of a seal may be increased but not decreased.

In non-movement joints the density of the mineral wool may be increased.

If more than one layer of mineral wool strips has been used in the test the number of layers may be reduced but not increased, provided the degree of compression (%) exerted on the seal is equal to or greater than that used in the test.



**Figure 4 — Mineral wool - compression directions**

## 5. Limitations

This classification report does not represent type approval or certification of the product.

## 6. Signatories

Report by:

A handwritten signature in black ink, appearing to read 'Chris Sweeney'.

Chris Sweeney  
Project Engineer  
Built Environment

Reviewed by:

A handwritten signature in blue ink, appearing to read 'Chris Johnson'.

Chris Johnson  
Senior Staff Engineer  
Built Environment

For and on behalf of UL International (UK) Ltd.