

Sikacryl 621 Fire+

DECLARATION OF PERFORMANCE

No. 79744211

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	79744211
2	INTENDED USE/S	EAD 350141-00-1106:2017 Fire Stopping and Sealing Product: Linear Joint and Gap Seals
3	MANUFACTURER:	Sika Services AG Tüffenwies 16-22 8064 Zürich
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 1
6b	EUROPEAN ASSESSMENT DOCUMENT:	EAD 350141-00-1106:2017
	European Technical Assessment:	ETA-21/0889 of 2021/10/20
	Technical Assessment Body:	DBI Certification A/S
	Notified body/ies:	2531

7 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Reaction to fire	D – s1, d1	System 1	EAD 350141-00- 1106:2017
Resistance to fire	Annex A	System 1	
Content, emission and/or release of dangerous substances	No performance assessed	System 1	
Water permeability	No performance assessed	System 1	
Release of dangerous substances	No performance assessed	System 1	
Mechanical resistance and stability	No performance assessed	System 1	
Resistance to impact/movement	No performance assessed	System 1	
Adhesion	No performance assessed	System 1	
Durability	Z2	System 1	
Movement capacity	No performance assessed		
Cycling of perimeter seals for curtain walls	No performance assessed		
Compression set	No performance assessed		
Linear expansion on setting	No performance assessed		
Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*	System 1	
Thermal properties	No performance assessed	System 1	
Water vapour permeability	No performance assessed	System 1	

* At 12 mm depth

A.1 Flexible wall constructions according to 2 1) with wall thickness of minimum 75 mm and minimum 1 x layer of 12.5 mm board per side

A.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall

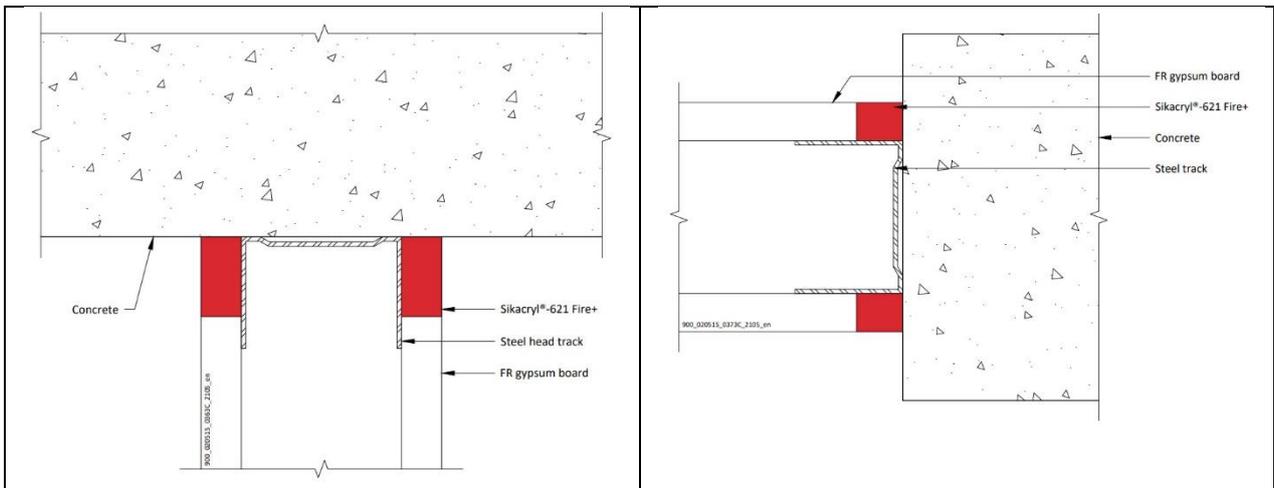
Joint Seal: Sikacryl-621 Fire+ to both sides of the wall, joint widths up to 30 mm

Construction details:	
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A.1.1.1

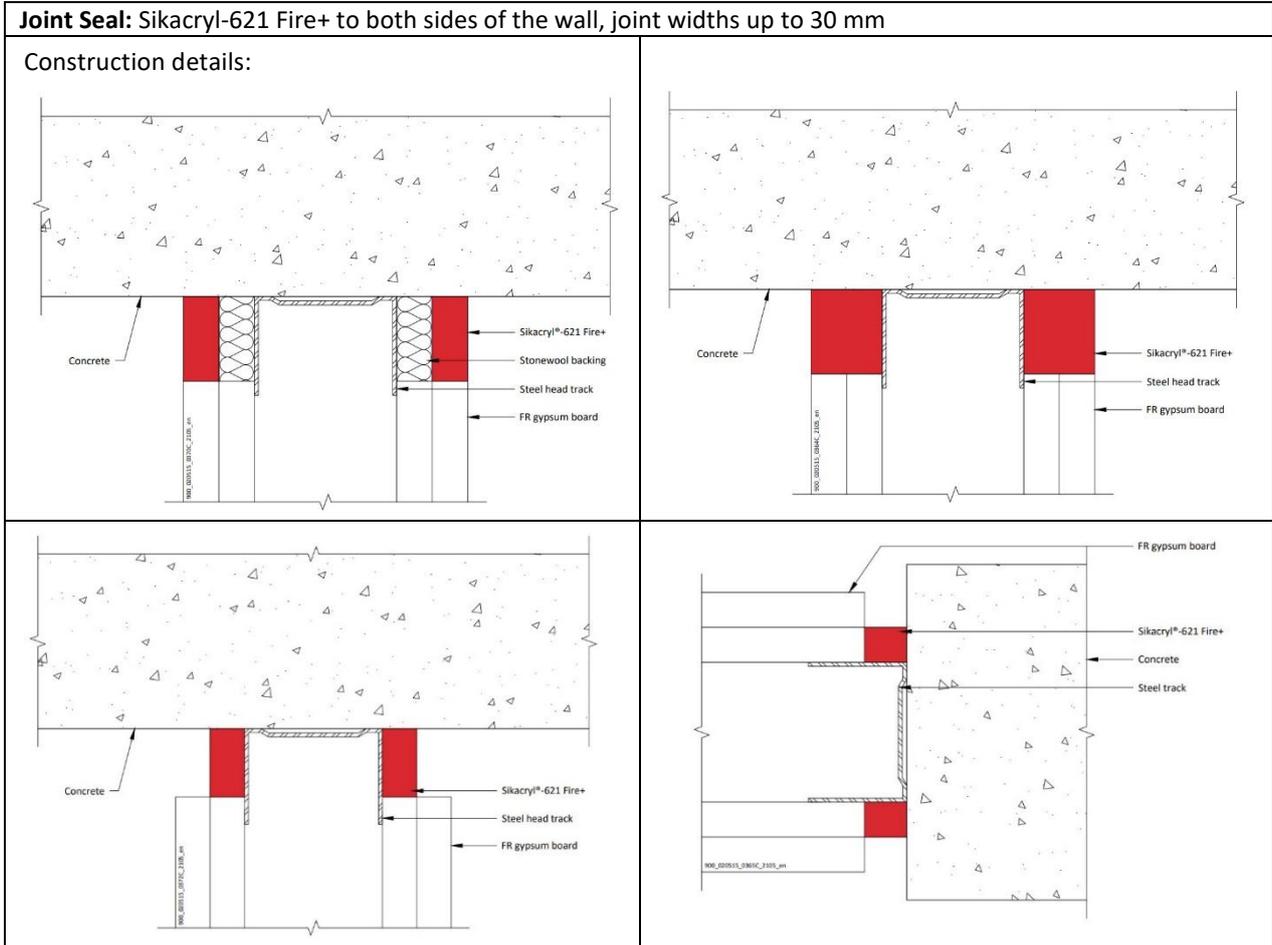
Substrate	Depth (mm)	Backing (minimum)	Classification
Plasterboard/ concrete	12.5 min.	50 mm steel partition head track/ stud	E 60 – T – X – F – W 25 EI 45 – T – X – F – W 25
			E 60 – V – X – F – W 15 EI 45 – V – X – F – W 15

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A.2 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm and minimum 2 x layer of 12.5 mm board per side

A.2.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall



A.2.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
Plasterboard/ concrete	12.5 min.	12.5 mm Stone wool 35 kg/m ³ plus 50 mm steel partition head track	EI 120 – T – X – F – W 30
		20 mm Stone wool 35 kg/m ³	EI 120 – V – X – F – W 30
	25 min.	50 mm steel partition head track /stud	EI 120 – T – X – F – W 30
	12.5 min.		EI 90 – T – X – F – W 25
			EI 90 – V – X – F – W 15

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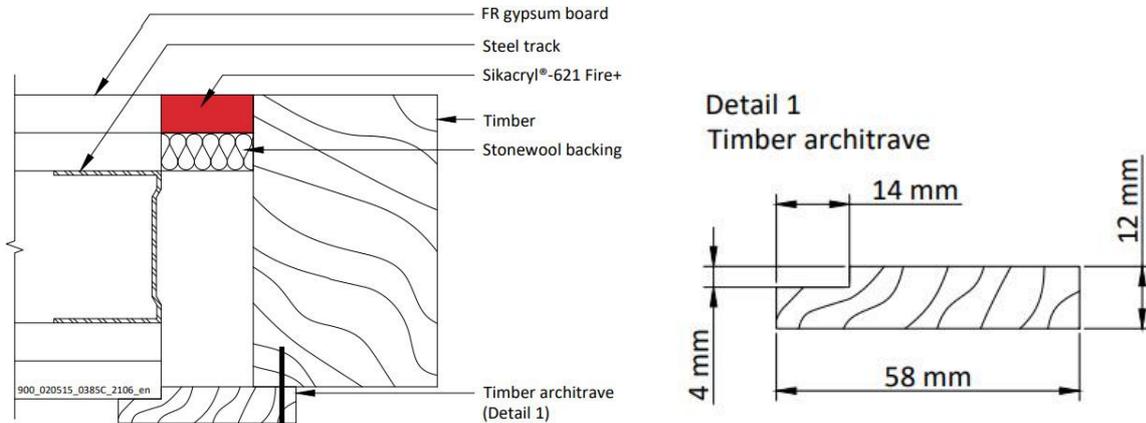
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A.2.2 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates and architraves

A.2.2.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials

Joint Seal: Sikacryl-621 Fire+ to one side of the wall, joint widths up to 30 mm

Construction details:



A.2.2.2

Substrate	Depth (mm)	Facing (minimum)	Backing	Classification
Flexible or rigid wall / Timber	12.5 min.	Single sided linear seals in flexible or rigid walls against wooden frames covered with architraves on the other side fixed with 25 mm steel pins at nominal 300 mm centres.	Stonewool, 12.5 mm deep min. 35 kg/m ³	EI 60 – V – X – F – W 30
				EI 60 – T – X – F – W 30

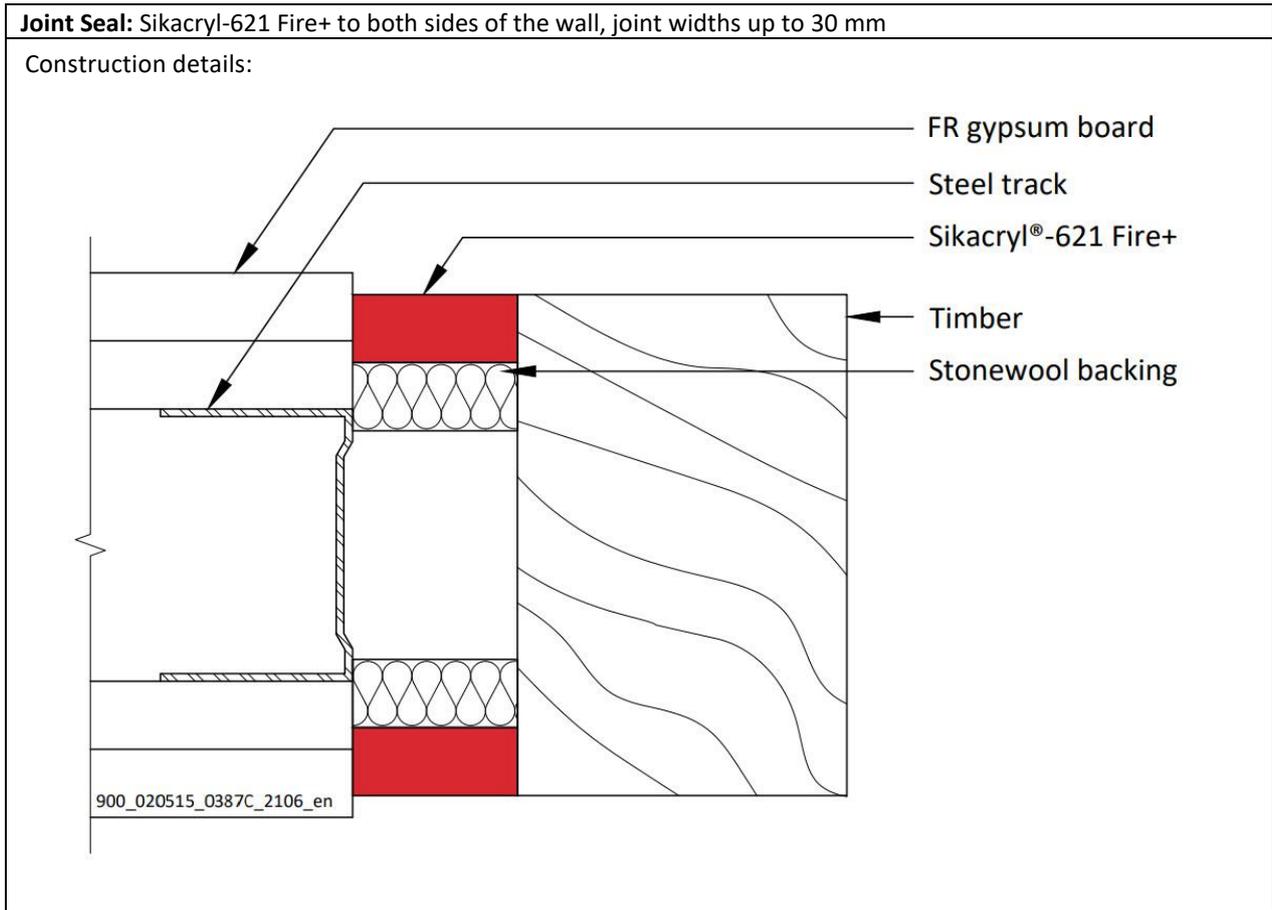
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A.2.3 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates

A.2.3.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials



A.2.3.2

Substrate	Depth (mm)	Backing	Classification
Flexible or rigid wall / Timber	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 90 – V – X – F – W 30
			EI 60 – V – X – F – W 30
			E 90 – T – X – F – W 30
			EI 60 – T – X – F – W 30

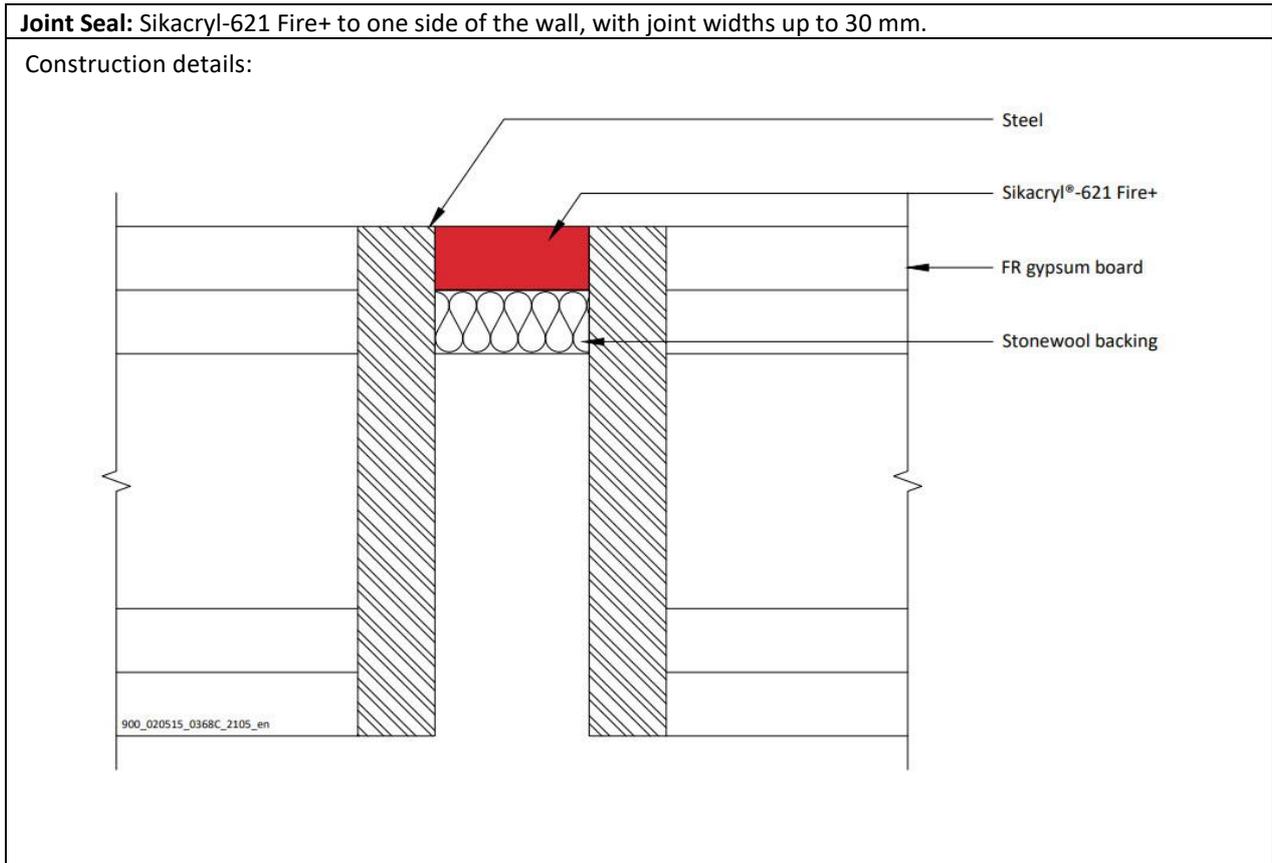
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A.2.4 Flexible or rigid wall construction with wall thickness of minimum 100 mm and steel substrates

A.2.4.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials



A.2.4.2

Substrate	Depth (mm)	Backing	Classification
Steel / steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 120 – V – X – F – W 30
			EI 30 – V – X – F – W 30
			E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

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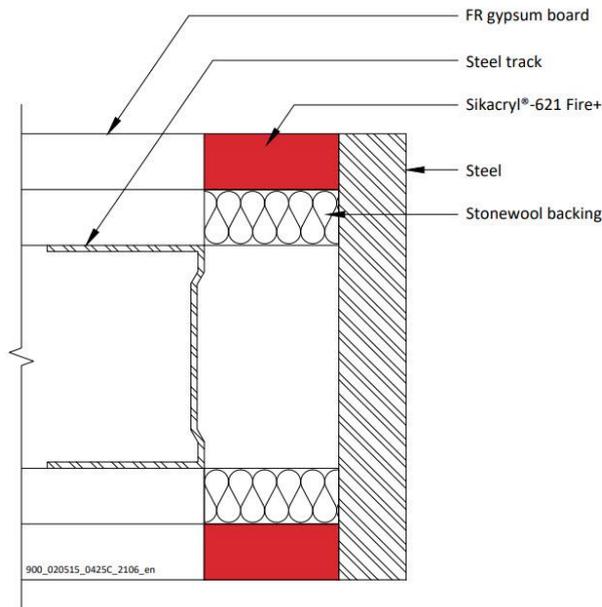
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A.2.5 Linear joint or gap seals, vertically or horizontal orientated with backing materials

Joint Seal: Sikacryl-621 Fire+ to both sides of the wall, with joint widths up to 30 mm.

Construction details:



A.2.5.1

Substrate	Depth (mm)	Backing	Classification
Flexible or rigid wall / Steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 120 – V – X – F – W 30 ¹ EI 30 – V – X – F – W 30 ²
			E 120 – T – X – F – W 30 ³ EI 45 – T – X – F – W 30 ⁴

*Additional and for information only.

The classifications provided in Table A.2.5.1 consider the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the steel substrate.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 120, ² 90, ³ 120, ⁴ 60

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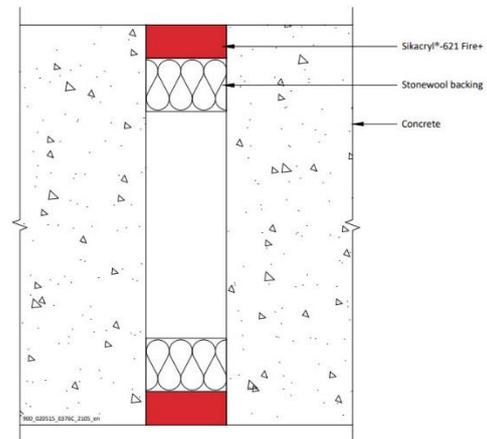
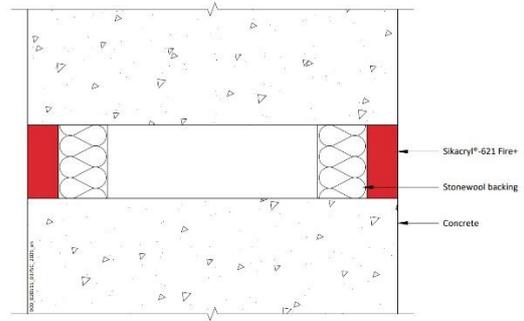
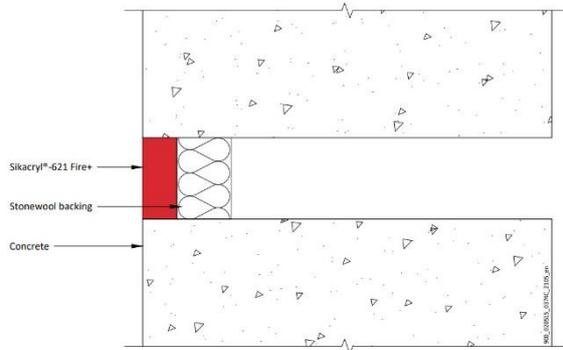
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A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

A.3.1 Linear joint or gap seal, between head of rigid wall and soffit of concrete floor / between rigid walls

Joint Seal: Sikacryl-621 Fire+ to either side (or any position between) or both sides of the wall, joint widths up to 30 mm

Construction details:



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A.3.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
masonry/ concrete	25 min. (one side)	20 mm Stone wool 40 kg/m ³	E 240 – T – X – F – W 30 EI 60 – T – X – F – W 30
	15 min. (both sides)		EI 240 – V – X – F – W 30 EI 240 – T – X – F – W 30
	10 min. (one side)	60 mm Stone wool 33 kg/m ³	E 240 – T – X – F – W 50 EI 60 – T – X – F – W 50 EI 120 – V – X – F – W 50
	25 min. (one side)	48 mm AES mineral fibre	E 240 – T – X – F – W 30 EI 120 – T – X – F – W 30

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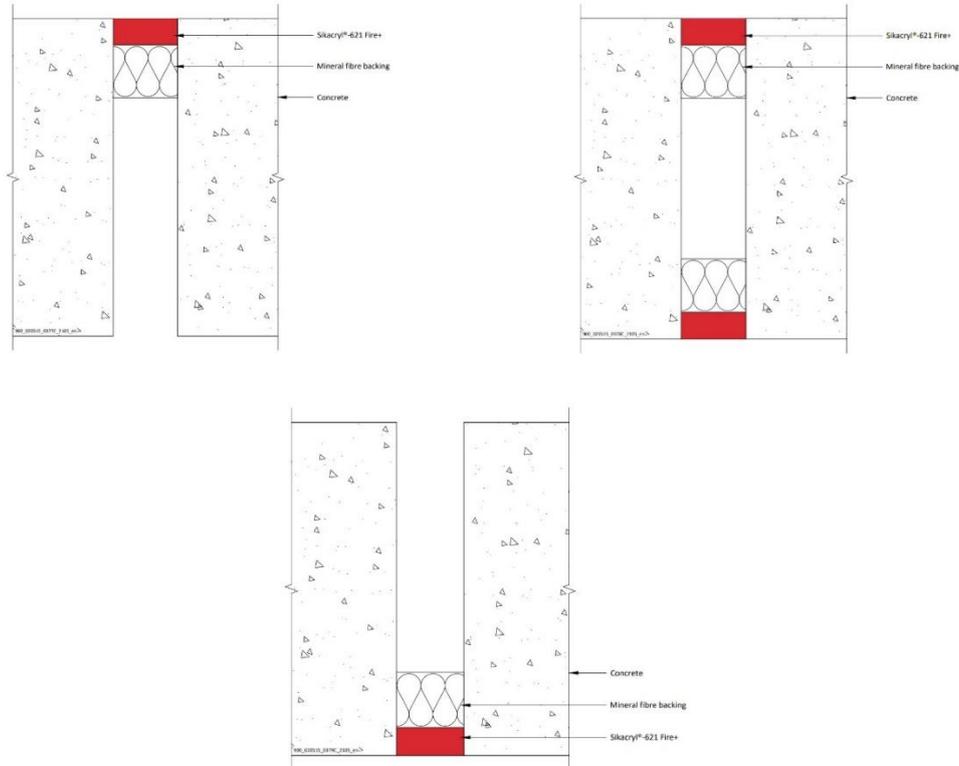
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A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.4.1 Linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only

Joint Seal: Sikacryl-621 Fire+ to either side (or any position between) or both sides of the floor, joint widths up to 100 mm

Construction details:



A.4.1.1

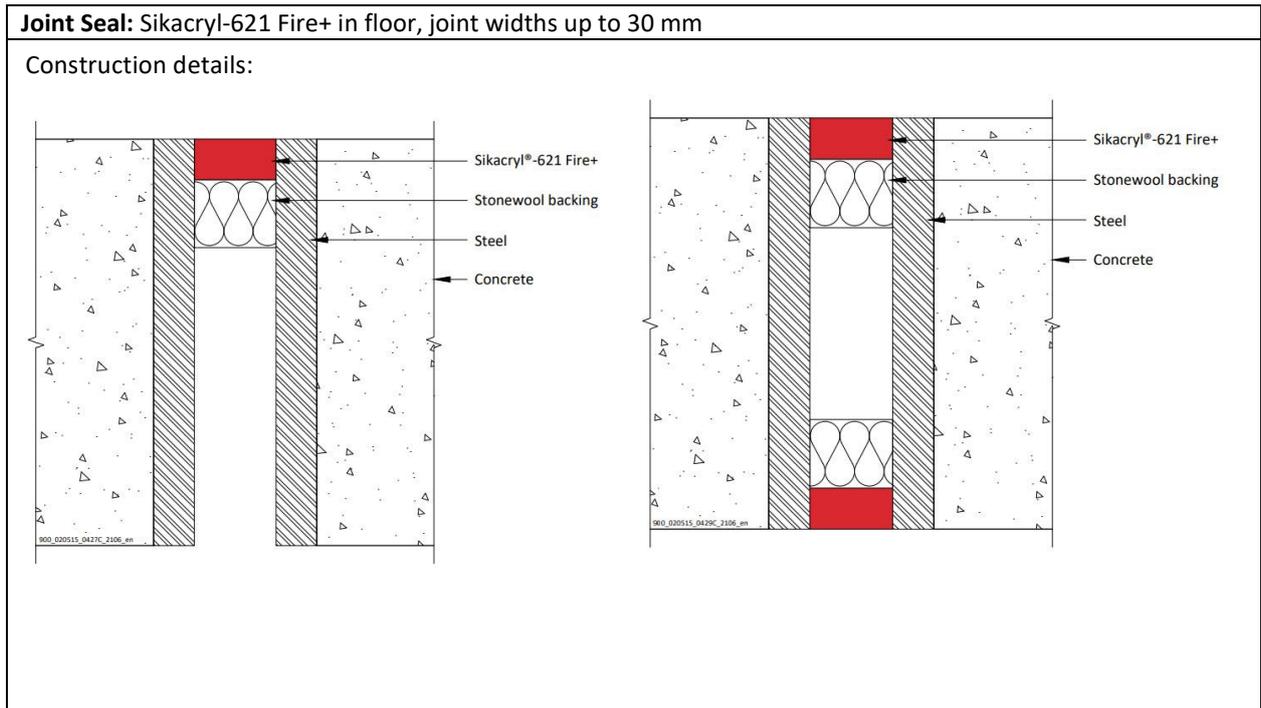
Substrate	Depth (mm)	Backing (minimum)	Classification
masonry/ concrete	25 min. (any position)	25 mm AES mineral fibre	E 120 – H – X – F – W 100
	25 min (top face)		EI 60 – H – X – F – W 100
	15 min. (both sides)	25 mm Stone wool 40 kg/m ³	EI 180 – H – X – F – W 100
		25 mm Stone wool 140 kg/m ³	EI 120 – H – X – F – W 100
	15 min. (both sides)	25 mm stone wool 35 kg/m ³ insulation	EI 180 – H – X – F – W 100
	10 min. (top face)	90 mm Stone wool 33 kg/m ³	EI 240 – H – X – F – W 30
			EI 240 – H – X – F – W 100

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A.4.2 Linear joint or gap seals, in or between rigid floors



A.4.2.1

Substrate	Depth (mm)	Backing	Position	Classification
Steel/ steel or Steel/ concrete	25 min.	Stonewool, 50 mm deep min. 35 kg/m ³	Top	E 240 – H – X – F – W 30 ¹ EI 30 – H – X – F – W 30 ²
	15 min.	Stonewool, 25 mm deep min. 35 kg/m ³	Both	E 240 – H – X – F – W 30 ³ EI 45 – H – X – F – W 30 ⁴
Aluminium / concrete	25 min.	Stonewool, 50 mm deep min. 35 kg/m ³	Top	E 180 – H – X – F – W 30 ⁵ EI 20 – H – X – F – W 30 ⁶

*Additional and for information only.

The classifications provided in Table A.4.2.1 consider the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the steel substrate.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 240, ² 60, ³ 240, ⁴ 120, ⁵ 180, ⁶ 60

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**8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -
SPECIFIC TECHNICAL DOCUMENTATION**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name : Tomek Gutowski
Function: Corporate Certification and Approvals
At Warsaw on 13 December 2021

Name : Maciej Michalewski
Function: Standardization and Approvals
At Warsaw on 13 December 2021



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End of information as required by Regulation (EU) No 305/2011

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FULL CE MARKING

	
21	
Sika Services AG, Zurich, Switzerland	
DoP No. 79744211	
Reaction to fire	D – s1, d1
Resistance to fire	Annex A
Durability	Z2
Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*

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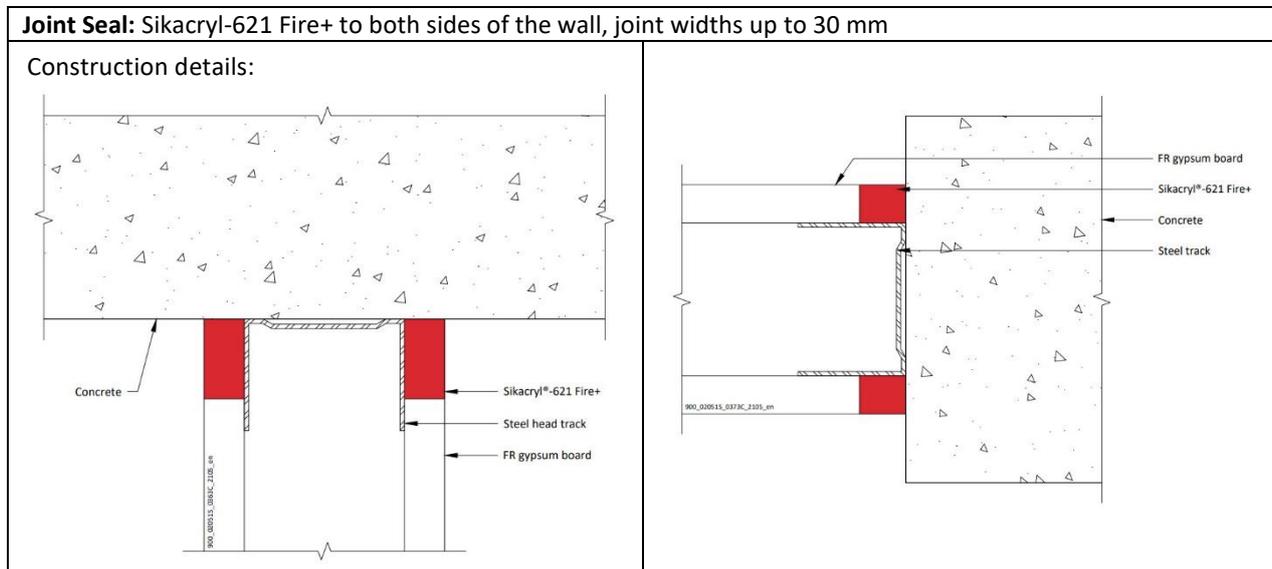
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Annex A – Resistance to Fire Classification – Sikacryl-621 Fire+Flexible wall constructions according to 2 1) with wall thickness of minimum 75 mm and minimum 1 x layer of 12.5 mm board per side

A.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall



A.1.1.1

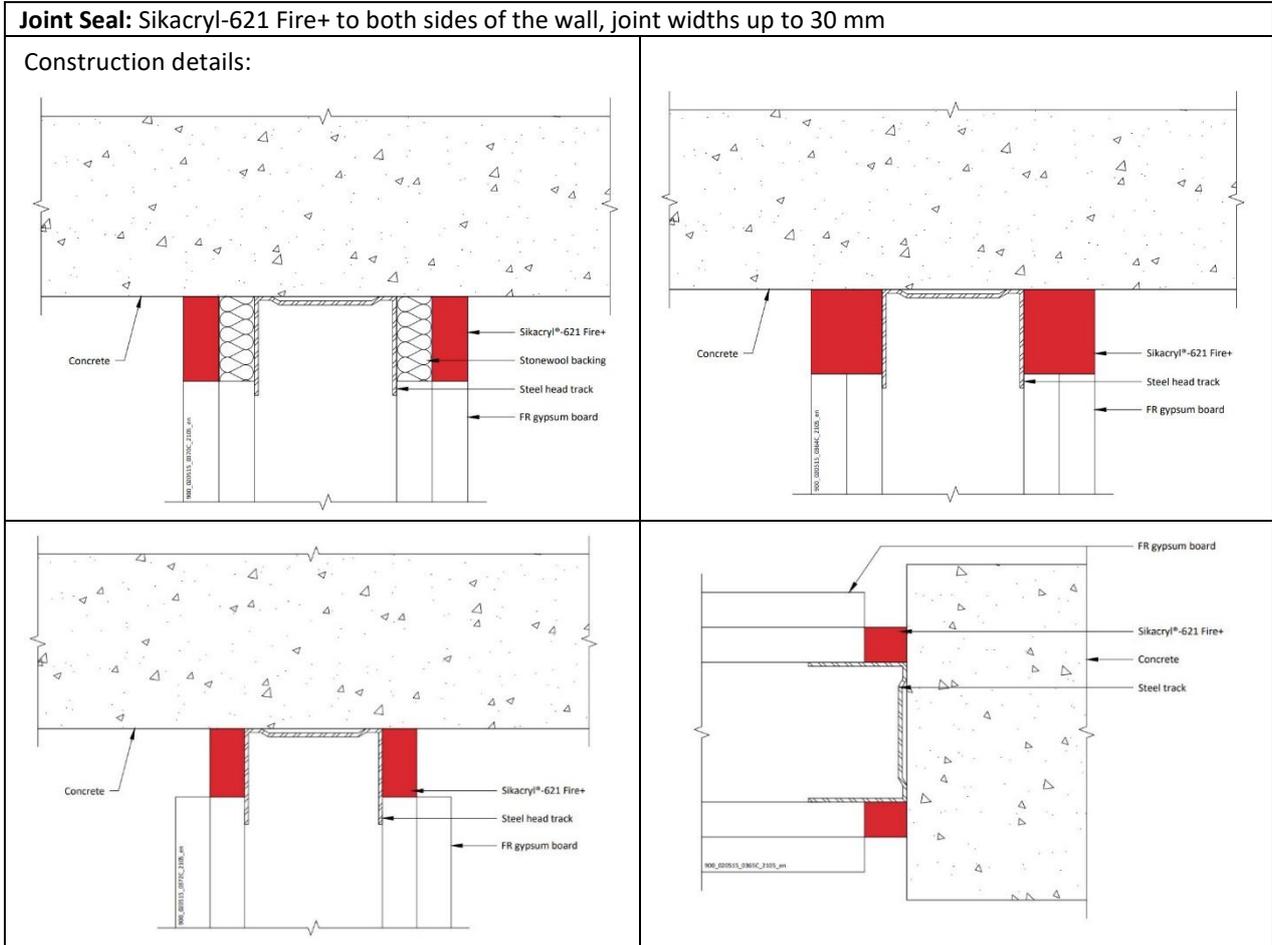
Substrate	Depth (mm)	Backing (minimum)	Classification
Plasterboard/ concrete	12.5 min.	50 mm steel partition head track/ stud	E 60 – T – X – F – W 25 EI 45 – T – X – F – W 25
			E 60 – V – X – F – W 15 EI 45 – V – X – F – W 15

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A.2 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm and minimum 2 x layer of 12.5 mm board per side

A.2.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall



A.2.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
Plasterboard/ concrete	12.5 min.	12.5 mm Stone wool 35 kg/m ³ plus 50 mm steel partition head track	EI 120 – T – X – F – W 30
		20 mm Stone wool 35 kg/m ³	EI 120 – V – X – F – W 30
	25 min.	50 mm steel partition head track /stud	EI 120 – T – X – F – W 30
	12.5 min.		EI 90 – T – X – F – W 25
			EI 90 – V – X – F – W 15

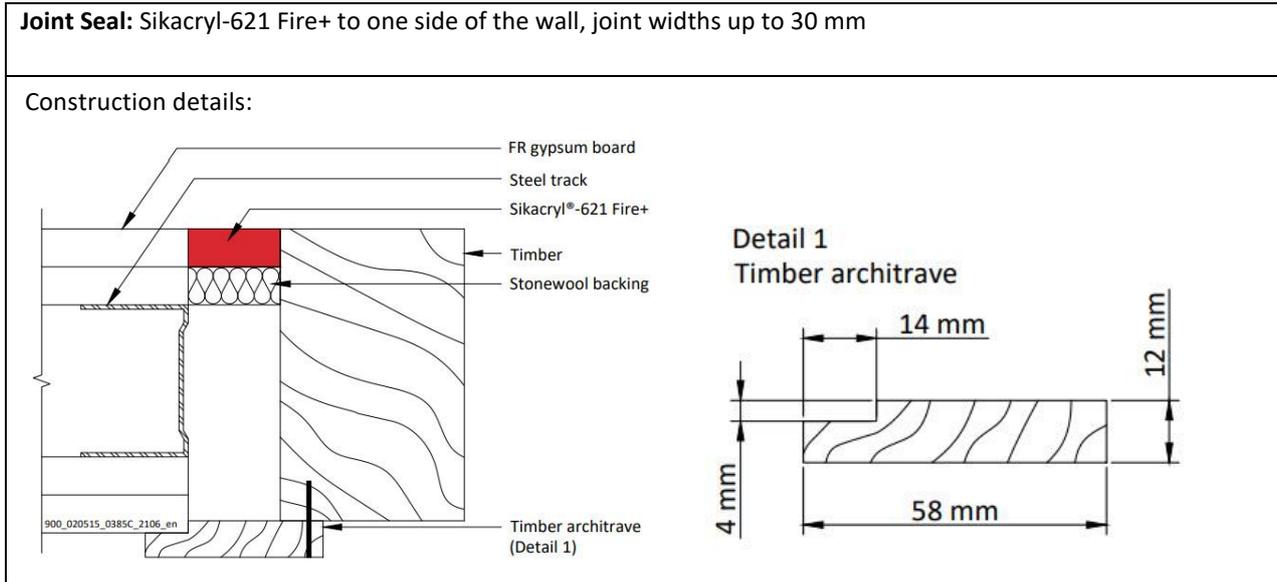
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A.2.2 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates and architraves

B.2.2.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials



B.2.2.2

Substrate	Depth (mm)	Facing (minimum)	Backing	Classification
Flexible or rigid wall / Timber	12.5 min.	Single sided linear seals in flexible or rigid walls against wooden frames covered with architraves on the other side fixed with 25 mm steel pins at nominal 300 mm centres.	Stonewool, 12.5 mm deep min. 35 kg/m ³	EI 60 – V – X – F – W 30
				EI 60 – T – X – F – W 30

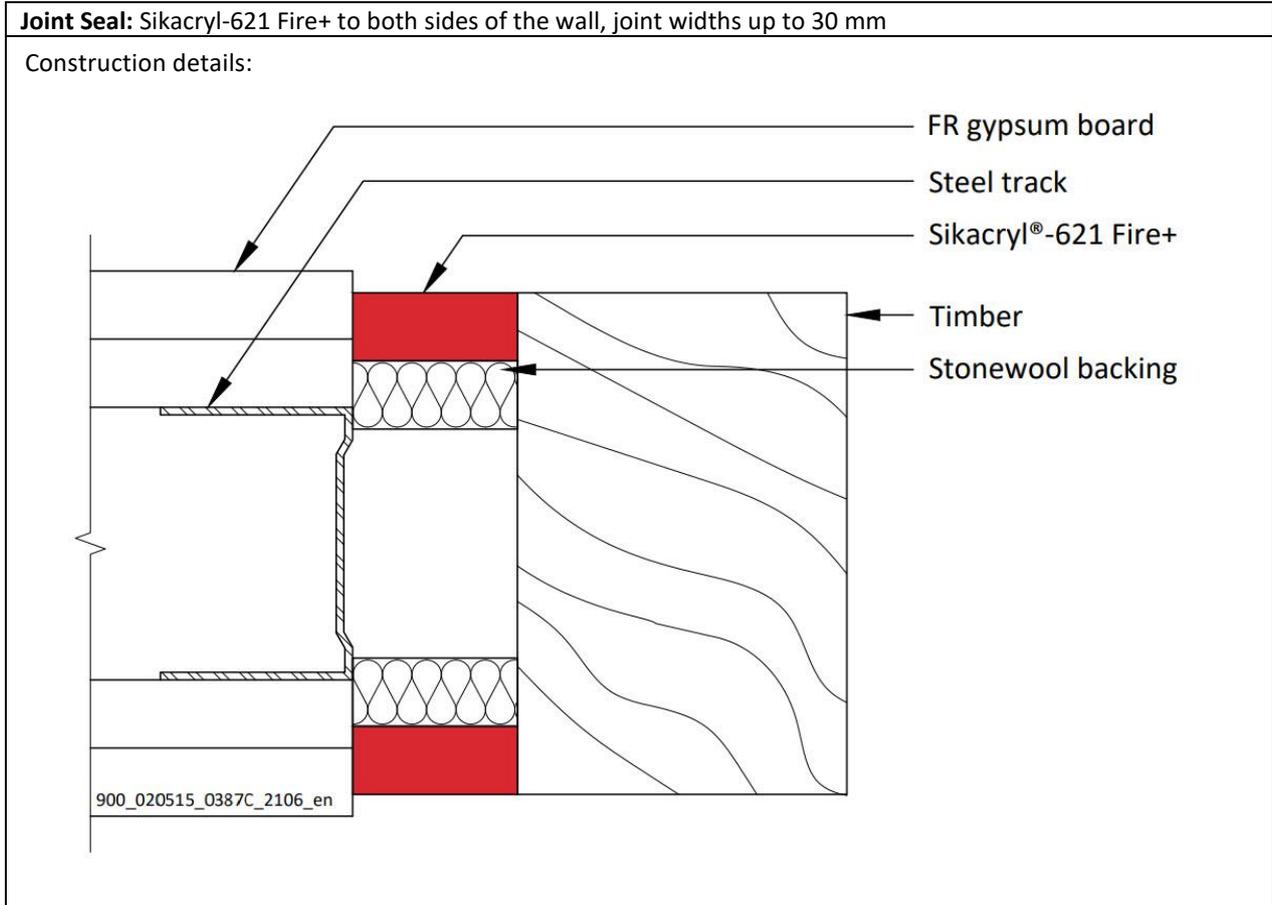
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A.2.3 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates

B.2.3.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials



A.2.3.2

Substrate	Depth (mm)	Backing	Classification
Flexible or rigid wall / Timber	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 90 – V – X – F – W 30
			EI 60 – V – X – F – W 30
			E 90 – T – X – F – W 30
			EI 60 – T – X – F – W 30

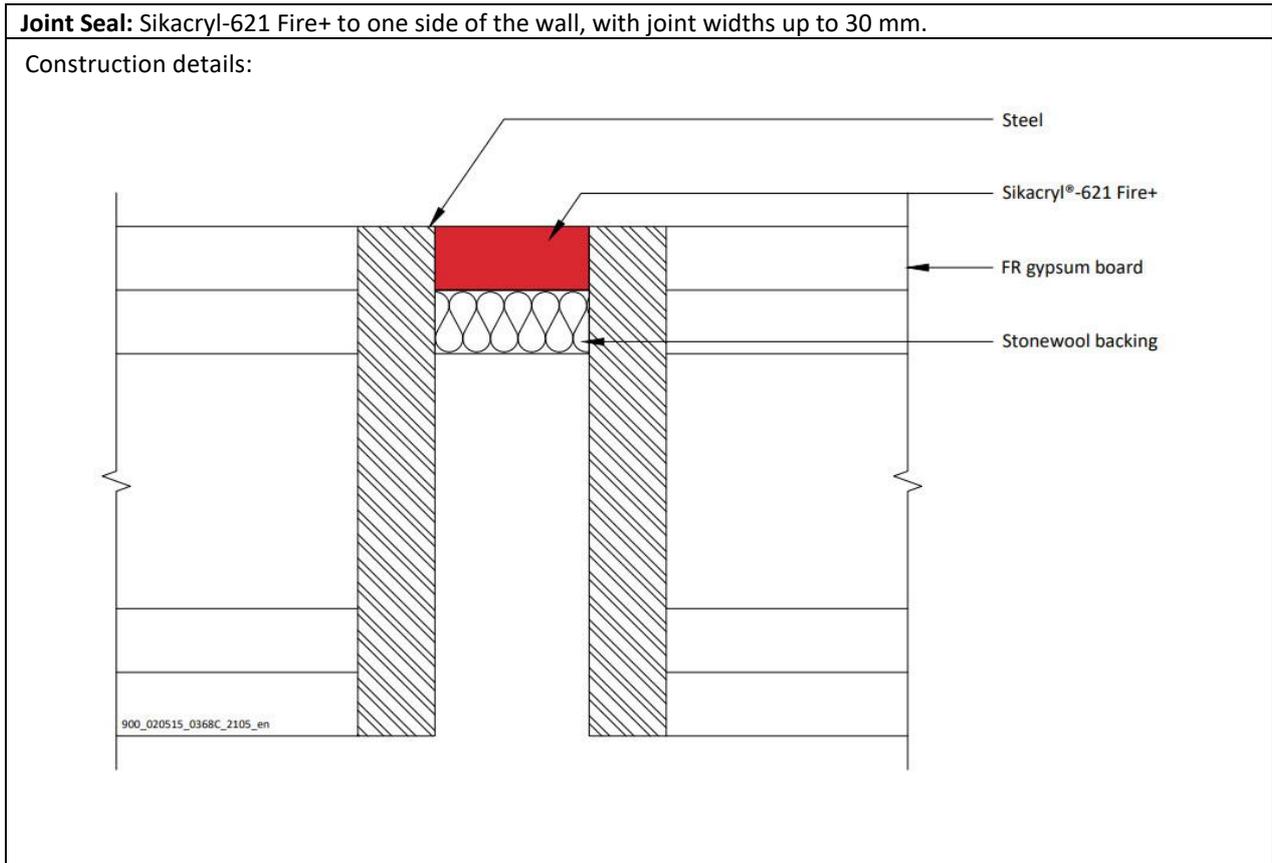
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A.2.4 Flexible or rigid wall construction with wall thickness of minimum 100 mm and steel substrates

A.2.4.1 Linear joint or gap seals, vertically or horizontal orientated with backing materials



A.2.4.2

Substrate	Depth (mm)	Backing	Classification
Steel / steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 120 – V – X – F – W 30
			EI 30 – V – X – F – W 30
			E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

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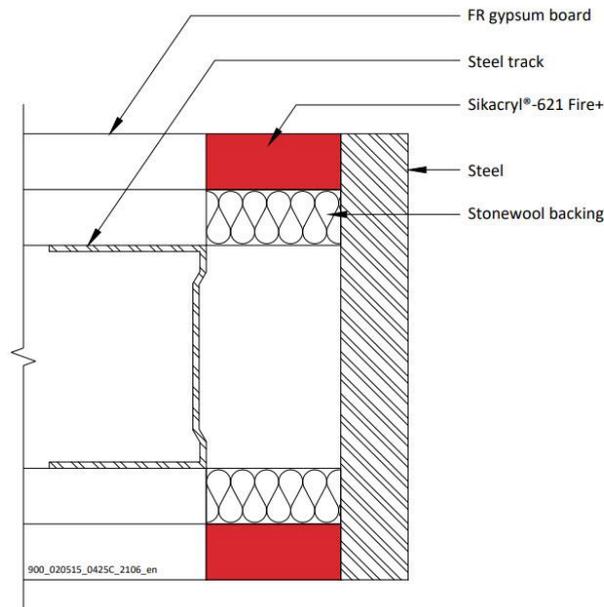
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A.2.5 Linear joint or gap seals, vertically or horizontal orientated with backing materials

Joint Seal: Sikacryl-621 Fire+ to both sides of the wall, with joint widths up to 30 mm.

Construction details:



A.2.5.1

Substrate	Depth (mm)	Backing	Classification
Flexible or rigid wall / Steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m ³	E 120 – V – X – F – W 30 ¹ EI 30 – V – X – F – W 30 ²
			E 120 – T – X – F – W 30 ³ EI 45 – T – X – F – W 30 ⁴

*Additional and for information only.

The classifications provided in Table A.2.5.1 consider the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the steel substrate.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 120, ² 90, ³ 120, ⁴ 60

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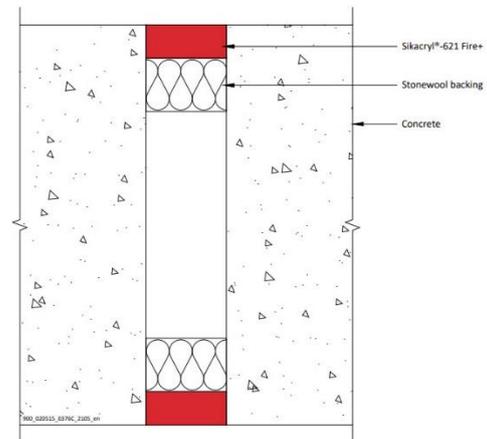
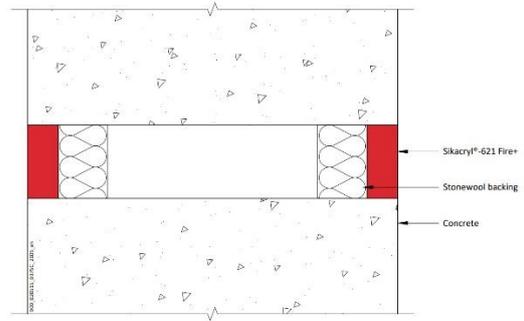
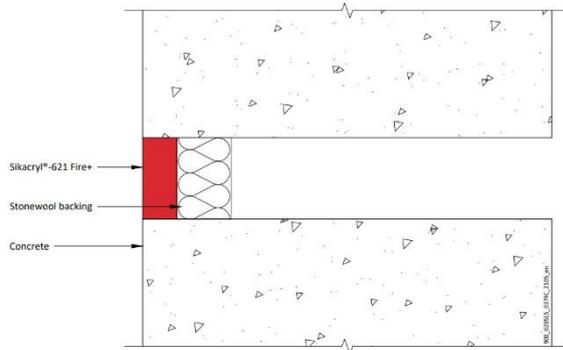
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A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

A.3.1 Linear joint or gap seal, between head of rigid wall and soffit of concrete floor / between rigid walls

Joint Seal: Sikacryl-621 Fire+ to either side (or any position between) or both sides of the wall, joint widths up to 30 mm

Construction details:



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A.3.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
masonry/ concrete	25 min. (one side)	20 mm Stone wool 40 kg/m ³	E 240 – T – X – F – W 30 EI 60 – T – X – F – W 30
	15 min. (both sides)		EI 240 – V – X – F – W 30 EI 240 – T – X – F – W 30
	10 min. (one side)	60 mm Stone wool 33 kg/m ³	E 240 – T – X – F – W 50 EI 60 – T – X – F – W 50 EI 120 – V – X – F – W 50
	25 min. (one side)	48 mm AES mineral fibre	E 240 – T – X – F – W 30 EI 120 – T – X – F – W 30

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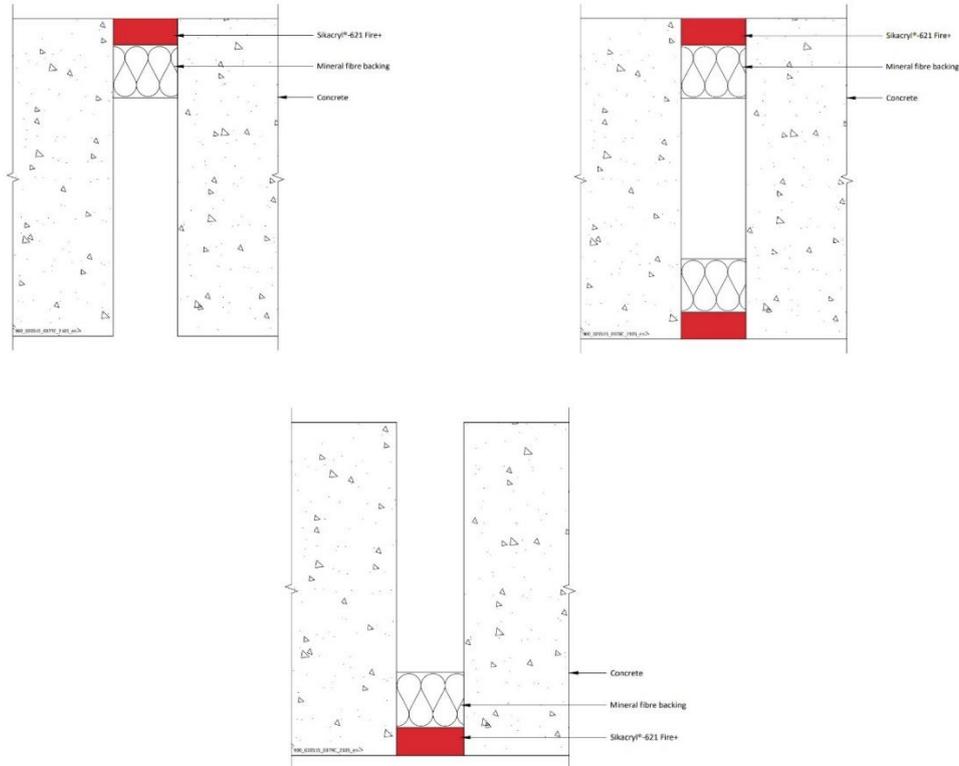
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A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.4.1 Linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only

Joint Seal: Sikacryl-621 Fire+ to either side (or any position between) or both sides of the floor, joint widths up to 100 mm

Construction details:



A.4.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
masonry/ concrete	25 min. (any position)	25 mm AES mineral fibre	E 120 – H – X – F – W 100
	25 min (top face)		EI 60 – H – X – F – W 100
	15 min. (both sides)	25 mm Stone wool 40 kg/m ³	EI 180 – H – X – F – W 100
		25 mm Stone wool 140 kg/m ³	EI 120 – H – X – F – W 100
	15 min. (both sides)	25 mm stone wool 35 kg/m ³ insulation	EI 180 – H – X – F – W 100
	10 min. (top face)	90 mm Stone wool 33 kg/m ³	EI 240 – H – X – F – W 30
			EI 240 – H – X – F – W 100

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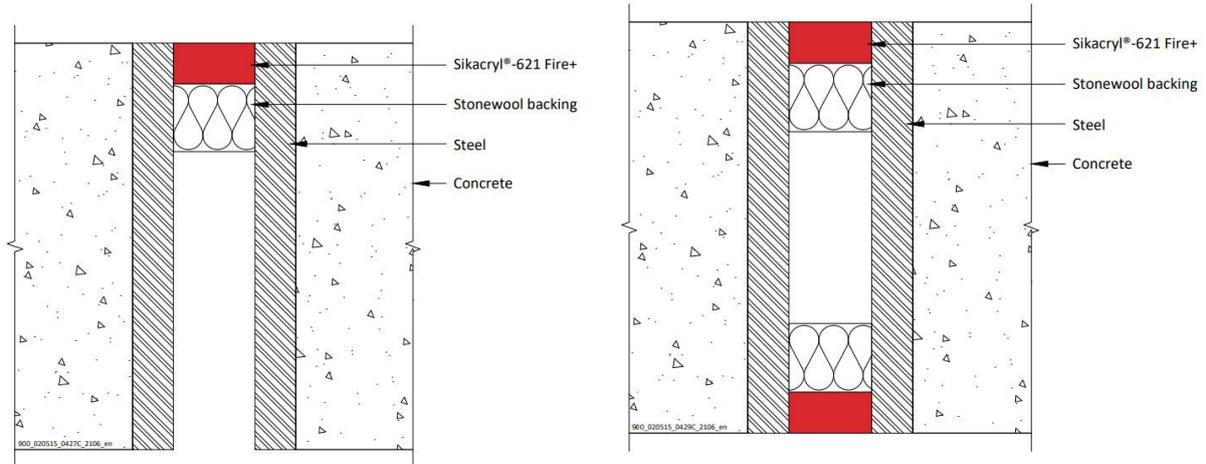
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A.4.2 Linear joint or gap seals, in or between rigid floors

Joint Seal: Sikacryl-621 Fire+ in floor, joint widths up to 30 mm

Construction details:



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A.4.2.1

Substrate	Depth (mm)	Backing	Position	Classification
Steel/ steel or Steel/ concrete	25 min.	Stonewool, 50 mm deep min. 35 kg/m ³	Top	E 240 – H – X – F – W 30 ¹ EI 30 – H – X – F – W 30 ²
	15 min.	Stonewool, 25 mm deep min. 35 kg/m ³	Both	E 240 – H – X – F – W 30 ³ EI 45 – H – X – F – W 30 ⁴
Aluminium / concrete	25 min.	Stonewool, 50 mm deep min. 35 kg/m ³	Top	E 180 – H – X – F – W 30 ⁵ EI 20 – H – X – F – W 30 ⁶

*Additional and for information only.

The classifications provided in Table A.4.2.1 consider the insulation performance of all components within the firestopping system as per the requirements of EN 1366-4. This includes temperature evaluation of the steel substrate.

In relation to each of the above classifications, temperatures recorded on the seal (exclusive of the supporting construction) exceeded the maximum allowable after the following times (rounded down):

¹ 240, ² 60, ³ 240, ⁴ 120, ⁵ 180, ⁶ 60

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Notified Body 2531
Fire Stopping and Sealing Product: Linear Joint and Gap Seals

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CE MARKING TO BE PLACED ON THE LABEL

 21
Sika Services AG, Zurich, Switzerland
79744211
For details see accompanying documents
EAD 350141-00-1106:2017
Notified Body 2531
Fire Stopping and Sealing Product: Linear Joint and Gap Seals

<http://dop.sika.com>

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sikas recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Declaration of Performance

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