

# 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

**Declaration of Performance** 

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# 7 DECLARED PERFORMANCE/S

Essential Characteristics	Performance	AVCP	Harmonise d Technical Specificatio n
Reaction to fire	D – s1, d1	System 1	
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	EAD
Adhesion	No performance assessed	System 1	350141-00- 1106:2017
Durability	Z2	System 1	1100.2017
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	
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<sup>\*</sup> 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

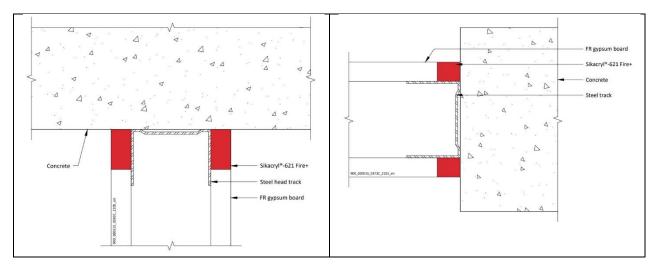
# A.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall

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

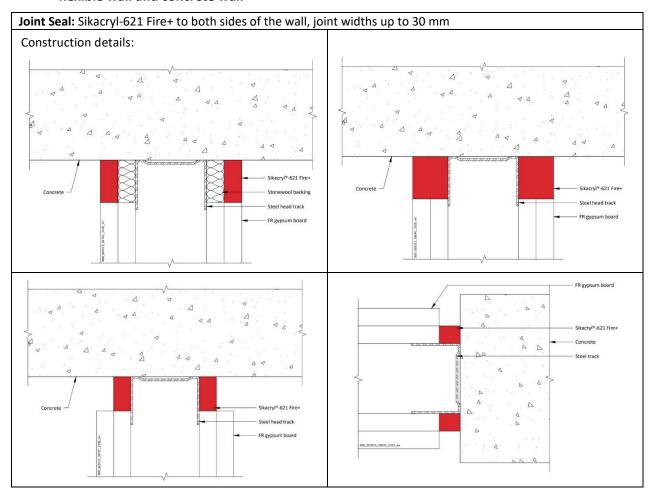
Substrate	Depth (mm)	Backing (minimum)	Classification
Plasterboard/ concrete	12.5 min.	50 mm steel partition head track/ stud	E 60 - T - X - F - W 25 EI 45 - T - X - F - W 25
			E 60 – V – X – F – W 15 EI 45 – V – X – F – W 15

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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
	12.5 min.	12.5 mm Stone wool 35 kg/m³ plus 50 mm steel partition head track	EI 120 – T – X – F – W 30
Plasterboard/		20 mm Stone wool 35 kg/m <sup>3</sup>	EI 120 – V – X – F – W 30
concrete	25 min.		EI 120 – T – X – F – W 30
	12.5 min.	50 mm steel partition head track /stud	EI 90 – T – X – F – W 25
			EI 90 – V– X – F – W 15

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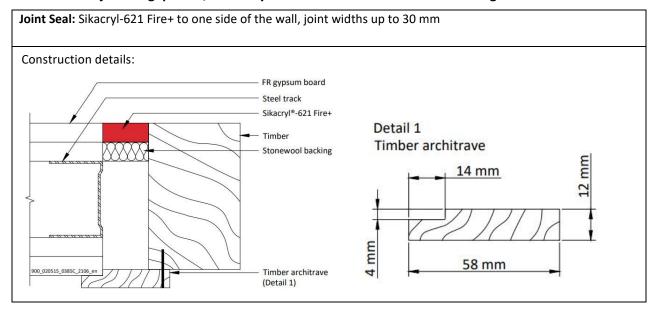
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# A.2.2 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates and architraves

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



### A.2.2.2

Substrate	Depth (mm)	Facing (minimum)	Backing	Classification
Flexible or rigid	12.5 min.	Single sided linear seals in flexible or rigid walls against wooden frames covered with architraves	Stonewool, 12.5 mm deep min. 35	EI 60 – V – X – F – W 30
wall / Timber		on the other side fixed with 25 mm steel pins at nominal 300 mm centres.	kg/m³	EI 60 – T – X – F – W 30

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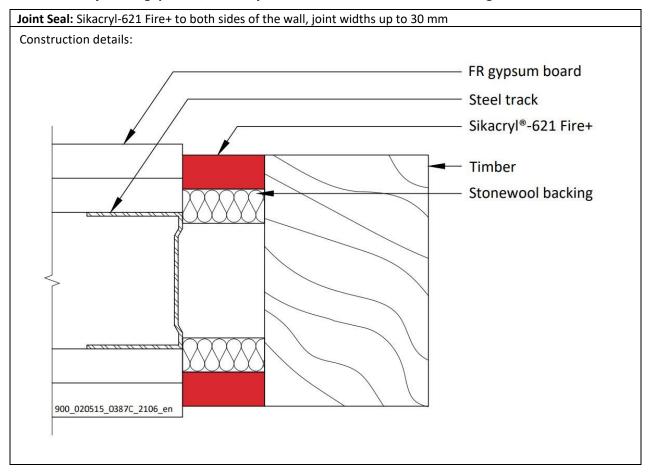
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# A.2.3 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates

# 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			E 90 – V – X – F – W 30
	12 F min	Standard 12 Francisco de la maio 25 km/m²	EI 60 – V – X – F – W 30
wall / Timber	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m <sup>3</sup>	E 90 – T – X – F – W 30
			EI 60 – T – X – F – W 30

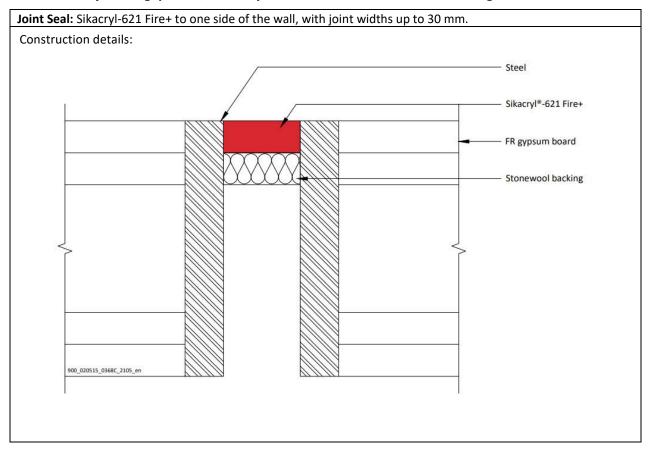
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# A.2.4 Flexible or rigid wall construction with wall thickness of minimum 100 mm and steel substrates

# 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			E 120 – V – X – F – W 30
	42.5	Stonewool, 12.5 mm deep min. 35 kg/m <sup>3</sup>	EI 30 – V – X – F – W 30
	12.5 min.		E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

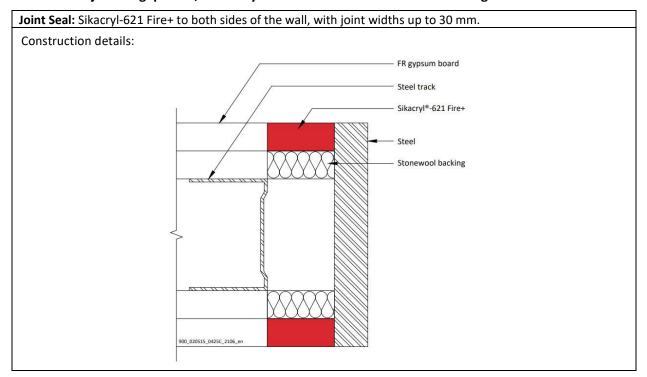
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### A.2.5 Linear joint or gap seals, vertically or horizontal orientated with backing materials



#### A.2.5.1

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

<sup>\*</sup>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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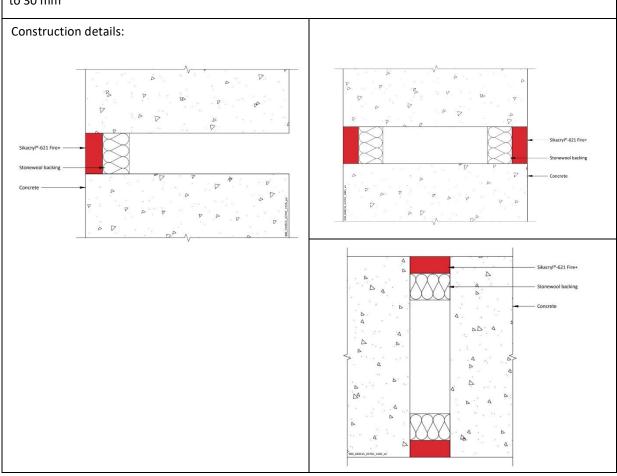
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# A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

# 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



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### A.3.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
	25 min. (one side)	20 mm Stone wool 40 kg/m³ -	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
masonry/ concrete	10 min. (one side)	60 mm Stone wool 33 kg/m³	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

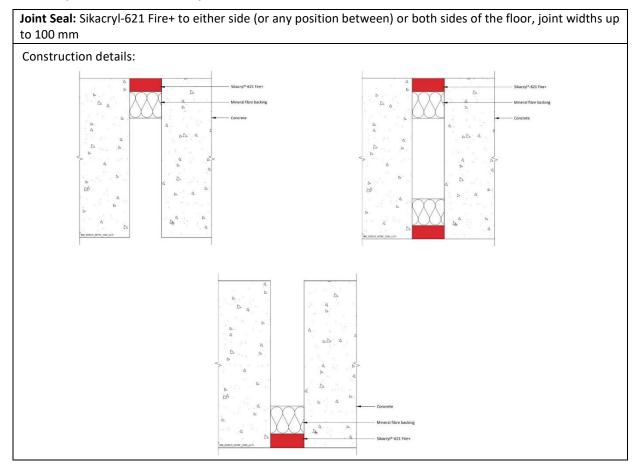
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# A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

# 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



#### A.4.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
	25 min. (any position)	25 mm AES mineral fibre	E 120 – H – X – F – W 100 EI 60 – H – X – F – W 100
	25 min (top face)		EI 180 – H – X – F – W 100
masonry/	15 min. (both sides)	25 mm Stone wool 40 kg/m <sup>3</sup>	EI 120 – H – X – F – W 100
concrete		25 mm Stone wool 140 kg/m³	EI 180 – H – X – F – W 100
	15 min. (both sides)	25 mm stone wool 35 kg/m³ insulation	EI 240 – H – X – F – W 30
	10 min. (top face)	90 mm Stone wool 33 kg/m³	EI 240 – H – X – F – W 100

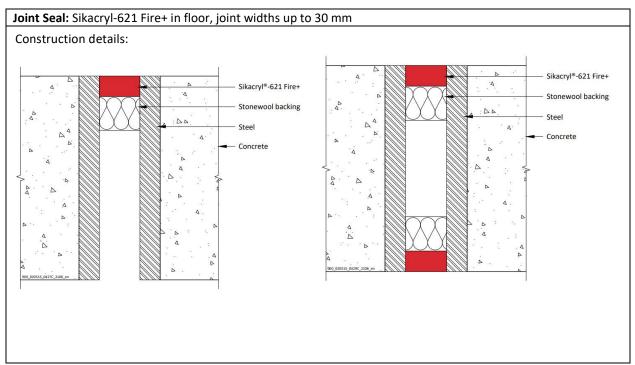
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### A.4.2 Linear joint or gap seals, in or between rigid floors



### A.4.2.1

Substrate	Depth (mm)	Backing	Position	Classification
Steel/ steel	25 min.	Stonewool, 50 mm deep min. 35 kg/m³	Тор	E 240 – H – X – F – W 30 <sup>1</sup> EI 30 – H – X – F – W 30 <sup>2</sup>
or Steel/ concrete	15 min.	Stonewool, 25 mm deep min. 35 kg/m³	Both	E 240 – H – X – F – W 30 <sup>3</sup> EI 45 – H – X – F – W 30 <sup>4</sup>
Aluminium / concrete	25 min.	Stonewool, 50 mm deep min. 35 kg/m³	Тор	E 180 – H – X – F – W 30 <sup>5</sup> EI 20 – H – X – F – W 30 <sup>6</sup>

<sup>\*</sup>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: Anders Beier Function: General Manager At Farum on 3 May 2022 Name: Stan Petersen Function: Head Distribution At Farum on 3 May 2022

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

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# **FULL CE MARKING**

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

**Declaration of Performance** 

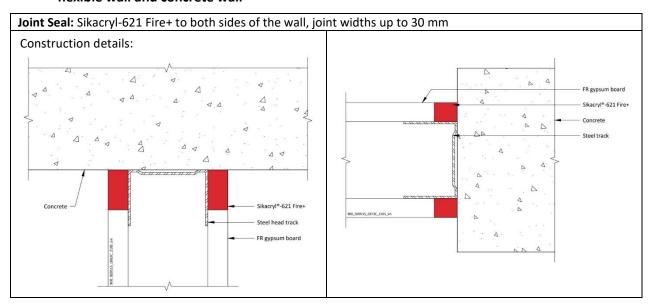
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# Annex A — Resistance to Fire Classification — Sikacryl-621 Fire+Flexible wall constructions according to 2 1) with wall thickness of minimum 75 mm and minimum 1 x layer of 12.5 mm board per side

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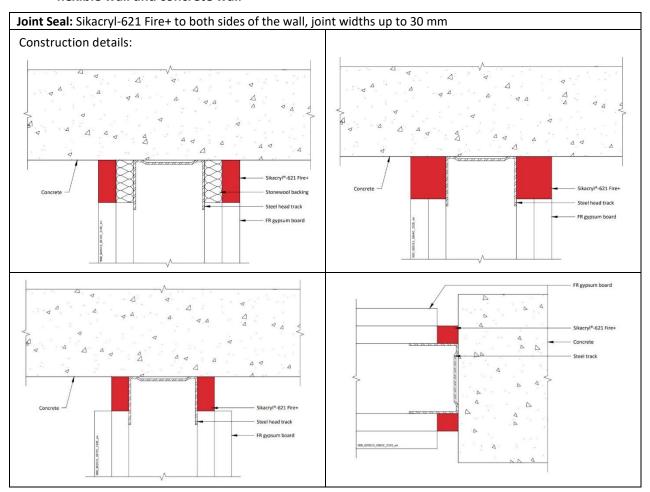
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# A.2 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm and minimum 2 x layer of 12.5 mm board per side

# 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 2	12.5 min.	12.5 mm Stone wool 35 kg/m³ plus 50 mm steel partition head track	EI 120 – T – X – F – W 30
		20 mm Stone wool 35 kg/m <sup>3</sup>	EI 120 – V – X – F – W 30
	25 min.		EI 120 – T – X – F – W 30
	12.5	50 mm steel partition head track /stud	EI 90 – T – X – F – W 25
	12.5 min.		EI 90 – V– X – F – W 15

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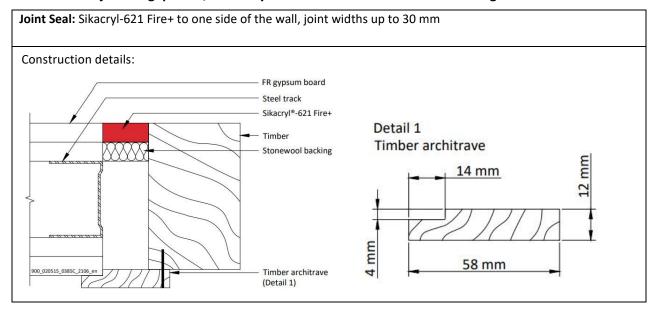
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# A.2.2 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates and architraves

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



### B.2.2.2

Substrate	Depth	Facing (minimum)	Backing	Classification
	(mm)			
Flexible or rigid 12.5 n	12.5 min.	Single sided linear seals in flexible or rigid walls against wooden frames covered with architraves	Stonewool, 12.5 mm deep min. 35	EI 60 – V – X – F – W 30
wall / Timber		on the other side fixed with 25 mm steel pins at nominal 300 mm centres.	kg/m³	EI 60 – T – X – F – W 30

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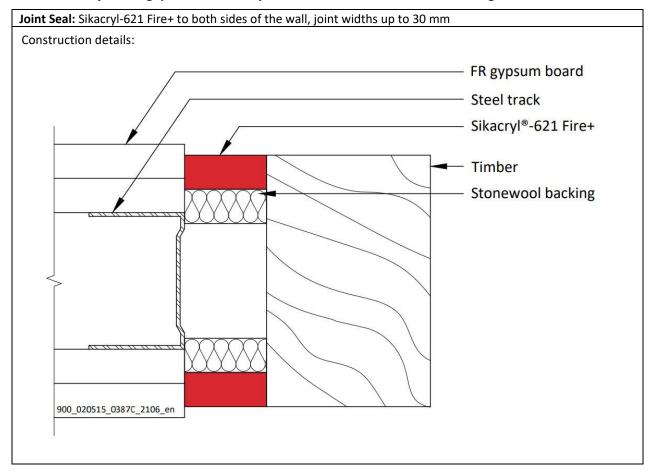
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# A.2.3 Flexible or rigid wall construction with wall thickness of minimum 100 mm and timber substrates

# 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.		Standard 42.5 mm days min 25 la / u3	E 90 – V – X – F – W 30
	12 F min		EI 60 – V – X – F – W 30
	Stonewool, 12.5 mm deep min. 35 kg/m <sup>3</sup>	E 90 – T – X – F – W 30	
			EI 60 – T – X – F – W 30

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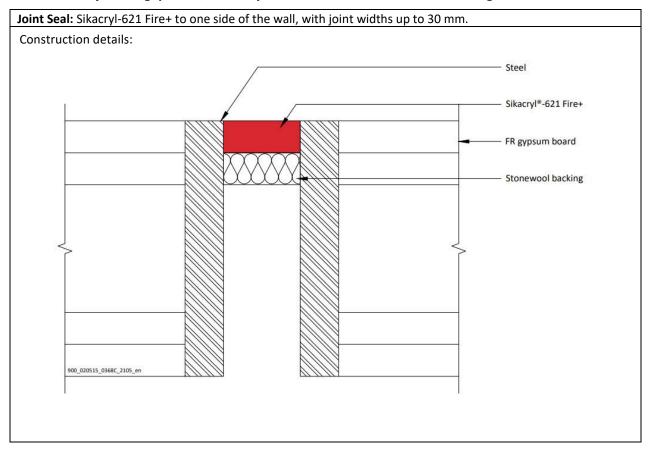
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# A.2.4 Flexible or rigid wall construction with wall thickness of minimum 100 mm and steel substrates

# 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
Sharel Cabaral 42.5 min	6 1425 1 251 / 3	E 120 – V – X – F – W 30	
		EI 30 – V – X – F – W 30	
Steel / steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m <sup>3</sup>	E 120 – T – X – F – W 30
			EI 30 – T – X – F – W 30

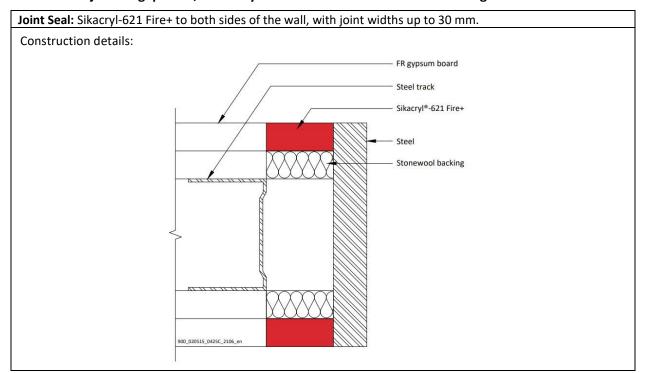
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### A.2.5 Linear joint or gap seals, vertically or horizontal orientated with backing materials



#### A.2.5.1

Substrate	Depth (mm)	Backing	Classification
Flexible or		Steer word 42 5 year days win 25	E 120 – V – X – F – W 30 <sup>1</sup> EI 30 – V – X – F – W 30 <sup>2</sup>
rigid wall / Steel	12.5 min.	Stonewool, 12.5 mm deep min. 35 kg/m³	E 120 – T – X – F – W 30 <sup>3</sup> EI 45 – T – X – F – W 30 <sup>4</sup>

<sup>\*</sup>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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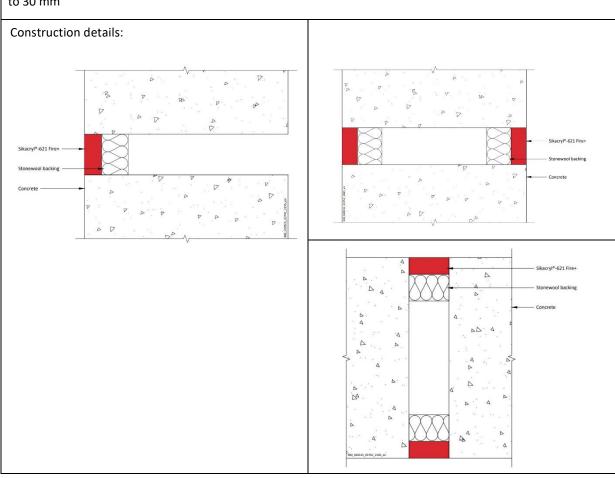
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# A.3 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

# 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



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### A.3.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
	25 min. (one side)	- 20 mm Stone wool 40 kg/m³ -	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
masonry/ concrete	10 min. (one side)	60 mm Stone wool 33 kg/m³	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

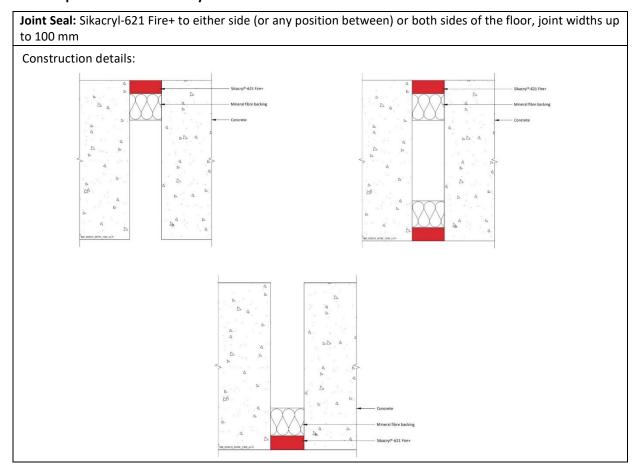
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# A.4 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

# 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



#### A.4.1.1

Substrate	Depth (mm)	Backing (minimum)	Classification
	25 min. (any position)	25 mm AES mineral fibre	E 120 – H – X – F – W 100 EI 60 – H – X – F – W 100
	25 min (top face)		EI 180 – H – X – F – W 100
masonry/	15 min (both sides)	25 mm Stone wool 40 kg/m³	EI 120 – H – X – F – W 100
concrete	15 min. (both sides)	25 mm Stone wool 140 kg/m <sup>3</sup>	EI 180 – H – X – F – W 100
	15 min. (both sides)	25 mm stone wool 35 kg/m³ insulation	EI 240 – H – X – F – W 30
	10 min. (top face)	90 mm Stone wool 33 kg/m <sup>3</sup>	EI 240 – H – X – F – W 100

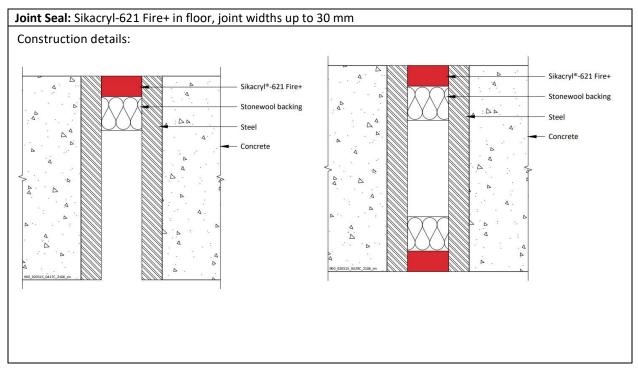
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# A.4.2 Linear joint or gap seals, in or between rigid floors



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#### A.4.2.1

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

<sup>\*</sup>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): \$^1240, ^260, ^3240, ^4120, ^5180, ^660\$

EAD 350141-00-1106:2017
Notified Body 2531
Fire Stopping and Sealing Product:
Linear Joint and Gap Seals

http://dop.sika.com

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### CE MARKING TO BE PLACED ON THE LABEL



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Sika Services AG, Zurich, Switzerland

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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**

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### Sika Danmark A/S

Hirsemarken 5 DK-3520 Farum Denmark www.sika.dk

# **Declaration of Performance**

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