

FIRESAFE / FSA

Firestop Acrylic for Penetration Seals and Linear Joint Seals

TECHNICAL DATA SHEET

Date: 30/07/2025
Rev.: 0
Rev.: 0
Prepared by: PP
Checked by: HKE
European approvals:
ETA No: 25/0233 Penetration Seals
ETA No: 25/0235 Linear Joint Seals
DoP No: FS/PP/FSA - 30/07/2025
CE 2821

PRODUCT DESCRIPTION

FIRESAFE / FSA is a fire-rated acrylic sealant that expands when exposed to heat, creating a fireproof and smokeproof barrier to adjacent rooms.



Fire resistance
≤ 240 minutes



Acoustic insulation
Rw ≤ 54 dB



Lifespan
25 years



Paintable
After 24 hours

PROPERTIES	AREA OF USE
✓ Fire resistance ≤ 240	✓ Masonry and cast wall construction, density ≥ 350 kg/m ³
✓ CE marked	✓ Masonry and cast wall construction, density ≥ 400 kg/m ³
✓ High acoustic insulation properties	✓ Insulated and non-insulated plaster walls ≥ 100 mm
✓ Environmentally friendly and user-friendly	✓ Fire sealing for installation penetrations
✓ Quick and easy installation	✓ Linear joint gaps up to 100 mm in floors
✓ Primer is generally not needed	✓ Linear joint gaps up to 50 mm in walls
✓ Quick drying	✓ Sealing around wooden framework up to 20 mm
✓ Elasticity in motion up to 7.5%	✓ Used for penetrations and seals
✓ Paintable after 24 hours	✓ In combination with FIRESAFE FSB1 and FSB2 Boards
✓ Product lifespan at least 25 years	✓ In combination with FIRESAFE FSP fire paint

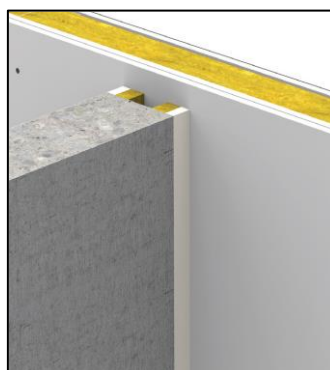
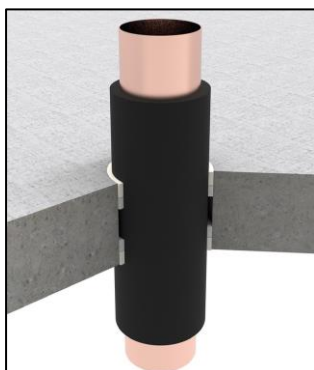


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Packaging

FIRESAFE / FSA	Contents	Box	Pallet	Pallet	Item no.
Plastic cartridge	310 ml	12 pcs.	128 boxes	1536 pcs.	100.200
Sausage	300 ml	18 pcs.	98 boxes	1764 pcs.	100.201
Sausage	600 ml	12 pcs.	91 boxes	1092 pcs.	100.202



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FIRE SEALANT

1. Technical data

FIRESAFE / FSA - Cartridge - 310 ml	EAN code 7070800102238
FIRESAFE / FSA - Sausage - 300 ml	EAN code 7070800102252
FIRESAFE / FSA - Sausage - 600 ml	EAN code 7070800102276
Condition	Ready for use on acrylic base
Colour	White
Colour code	RAL 9002 / NCS S1002-Y
Shelf life	24 months in unopened packaging at temperatures between +5°C and +30°C
Storage temperature during transport	+5 °C to +30 °C
Temperature during application	+5 °C to +30 °C
Permanent temperature resistance	-20 °C to +70 °C (after complete curing)
Drying time (visual)	Maximum 25 minutes
Non-adhesive	Maximum 75 minutes
Fully cured	3 to 5 days depending on thickness and temperature
Specific gravity	1.56 - 1.60 g/cm ³
Elasticity in motion	Up to 7.5%
Electrical conductivity	None after complete curing
Usage category ¹⁾	Type Z ₂ in accordance with EAD 350454-00-1104. Indoor
Paintable ²⁾	Yes
Can be installed from 1 side	Yes
Airtight and smokeproof	Yes, in accordance with S _a and S ₂₀₀ NEN 6075
Acoustic properties	12mm depth + 15mm backing material: R _{s,w} (C;C _{tr}) = 54 (-3; -10) dB and R _{s, max,w} (C;C _{tr}) = 58 (-5 ; -13) dB
Reaction to fire	Class E in accordance with EN 13501-1
Certification / fire resistance	Classification in accordance with EN 13501-1/2
VOC content	12 g/l
European approvals	ETA 25/0233. Penetration Seals
European approvals	ETA 25/0235. Linear Joint Seals
Test standards	Tested in accordance with EN 1366-3. Penetration Seals
Test standards	Tested in accordance with EN 1366-4. Linear Joint Seals
Compatibility	Avoid direct contact with bituminous materials (e.g., asphalt or roofing materials that contain bitumen).
Product lifespan	Minimum 25 years

¹⁾ Permitted environmental conditions: FIRESAFE / FSA is intended for use in conditions with < 85%, with protection against temperatures below 0 °C, and with no exposure to rain or UV (TR 024, type Z₂). Indoor use.

²⁾ Paintable: FIRESAFE / FSA can be painted using most alkyd paints, emulsion paints, or other water-based paints.

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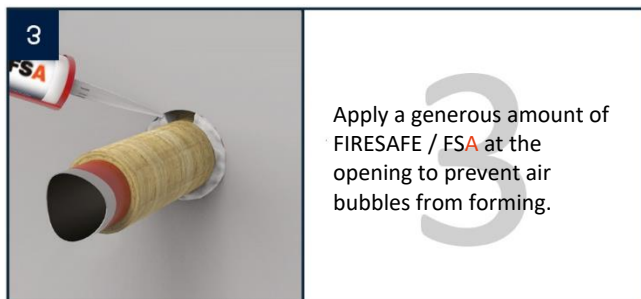
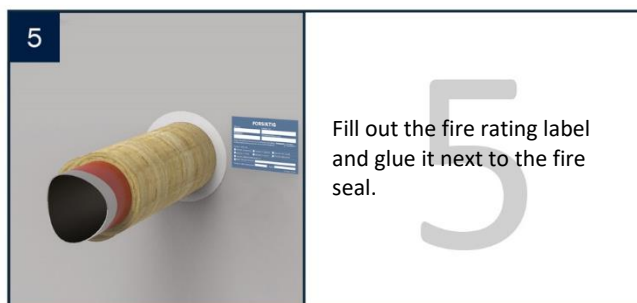
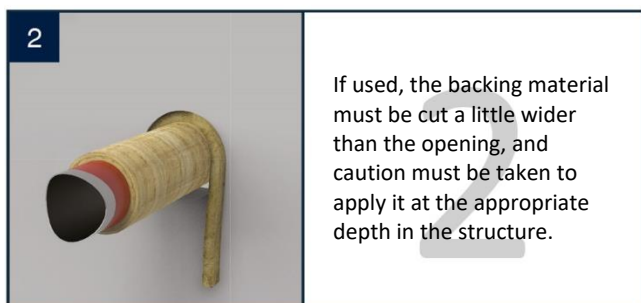
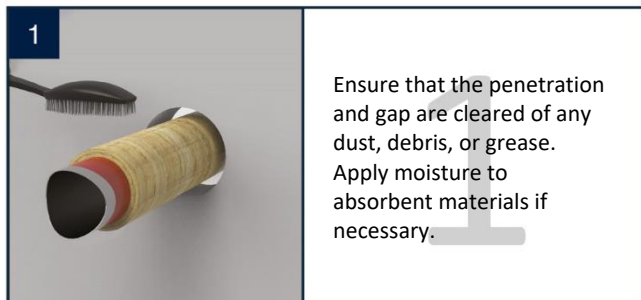
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2. Installation instructions



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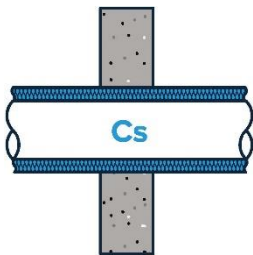
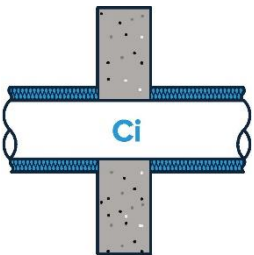
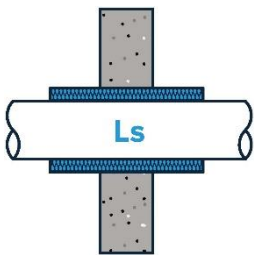
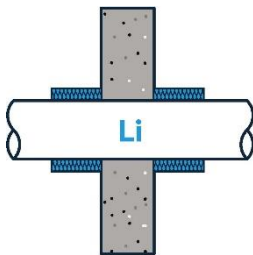
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3. Usage table. Usage table per 310 ml. Joint - metre per pack m¹

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	100 mm
Joint depth 12.5 mm	2.45 m ¹	1.65 m ¹	1.20 m ¹	1.00 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹
Joint depth 15 mm	2.05 m ¹	1.35 m ¹	1.00 m ¹	0.80 m ¹	0.65 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹
Joint depth 25 mm	1.20 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹	0.15 m ¹	0.10 m ¹

4. Pipe insulation (Configuration)

As different insulations serve different purposes, they may be placed around pipes in various configurations. This must be taken into account when applying FIRESAFE / FSA around these pipes. Possible configurations are shown below:

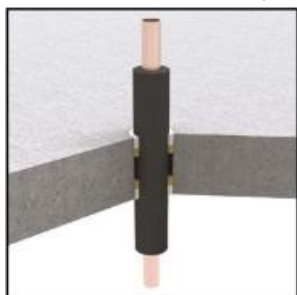
1. Continuous pipe insulation		2. Local pipe insulation	
Cs: Continuous pipe insulation, on both sides, also in the penetration itself.	Ci: Continuous pipe insulation, on both sides, excluding the penetration itself	Ls: Pipe insulation in the specified length locally on both sides, also in the penetration itself.	Li: Pipe insulation in the specified length locally on both sides, excluding the penetration itself
			

5. Permitted pipe insulation materials

FIRESAFE / FSA expands when exposed to heat. FIRESAFE / FSA has undergone extensive testing with a variety of insulation materials and the table below shows those that are permitted for use. For key details, see the Firesafe website for our European approvals: ETA 25/0233 and ETA 25/0235.

Insulation types	Pipe types	Permitted ¹⁾
Rock wool insulation Fire class A1 in accordance with EN 13501-1	✓ Copper pipes ✓ Steel and stainless steel pipes ✓ Cast iron pipes	✓ Rock wool, minimum density 80 kg/m³ or equivalent
Elastic pipe insulation Fire class BL-s1,d0 of B-s1,d0 to D-s3,d0 or DL-s3,d0 in accordance with EN 13501-1.	✓ Steel and stainless steel pipes ✓ Cast iron pipes ✓ Fibre-reinforced composite pipes ✓ Multilayer pipes	✓ Armaflex AF (EVO) / XG / SH / NH / HT / Ultima ✓ Kaiflex KK Plus S1 / S2 / ST / HT ✓ K-Flex EC (AD) / ST / SK / SRC (Eco) or equivalent

¹⁾ Insulation materials must possess at least the same fire resistance as tested in accordance with EN 13501-1.



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6. Fire safety performance for pipe penetrations

Installation penetrations in light partition plaster, masonry, cast walls and floors.

Type of installation	Size Ø [mm]	Pipe insulation type	Construction				Classification in minutes
			LSW-100	MW-100	MW-150	MV-150	
Plastic pipes	≤ 32	Non-insulated	✓	✓	✓		EI 120. U/C
					✓		EI 240. U/C
	≤ 50					✓	
Plastic pipe with cable(s)	≤ 40					✓	
Multilayer pipes	≤ 75	Rock wool	✓	✓	✓		EI 90. C/U
	≤ 20	Rock wool			✓		EI 240. U/C
	≤ 75	Armaflex	✓	✓	✓	✓	EI 120. U/C
Copper, cast iron, and steel pipes	≤ 15	Non-insulated				✓	EI 240. U/C
	≤ 26.9	FIRESAFE / FSA ⁽¹⁾	✓	✓	✓		EI 90. C/U
	≤ 60.3	FIRESAFE / FSA ⁽¹⁾	✓	✓	✓		EI 60. C/U
		FIRESAFE / FSA ⁽¹⁾				✓	EI 120. U/C
	≤ 114.3	Glass wool				✓	EI 90. C/U
	≤ 219	Glass wool				✓	EI 60. C/U
	≤ 324	Rock wool	✓	✓	✓		EI 120. U/C
					✓	✓	EI 240. U/C

⁽¹⁾ Wet film thickness ≥ 1.5 mm FIRESAFE / FSA. Length extending 200 mm out on non-insulated pipes on both sides of the construction.
The gap for the joint width with FIRESAFE / FSA around pipes in the construction may be 0-20 [mm].

LSW-100: Light partition wall. Plaster walls with a thickness of ≥ 100 mm.

MW-100: Masonry and cast wall construction, thickness ≥ 100 mm. Density 350 kg/m³.

MW-150: Masonry and cast wall construction, thickness ≥ 150 mm. Density 350 kg/m³.

MV-150: Masonry and cast wall construction, thickness ≥ 150 mm. Density 400 kg/m³.

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7. Fire safety performance for cable penetrations

Installation penetrations in light partition plaster, masonry, cast walls and floors.

Type of installation	Fire resistance out onto construction			Wall		Floor	Classification in minutes
	Without protection	Length 50 mm ≥ 1 mm ⁽¹⁾ FIRESAFE FSP	Length 150 mm ≥ 1.5 mm ⁽¹⁾ FIRESAFE FSP	LSW-100	MW-100	MV-150	
Cable riser - cable tray with and without perforation		✓		✓	✓		EI 60
			✓	✓	✓		EI 120
					✓		EI 240
Cables (d) $\leq \varnothing 21$ [mm]	✓					✓	EI 180
Cables (d) $\leq \varnothing 50$ [mm]	✓			✓	✓		EI 120
Cables (d) $\leq \varnothing 80$ [mm]	✓			✓	✓		EI 90
Cable bundles (d) $\leq \varnothing 100$ [mm]	✓			✓	✓	✓	EI 60
Cables (d) $\leq \varnothing 80$ mm, or bundles (d) $\leq \varnothing 100$ [mm]		✓		✓	✓		EI 120
			✓	✓	✓		EI 90
Cables without shells d $\leq \varnothing 24$ [mm]		✓		✓	✓		EI 45
			✓	✓	✓		EI 60
Plastic pipes or conduits d $\leq \varnothing 16$ [mm] with cable		✓		✓	✓		EI 120
			✓	✓	✓		EI 180
					✓		
Copper pipes d $\leq \varnothing 16$ [mm] with cable		✓		✓	✓		EI 45
			✓	✓	✓		
Steel pipes d $\leq \varnothing 16$ [mm] with cable		✓		✓	✓		EI 60
	Z		✓	✓	✓		EI 90

⁽¹⁾ Wet film thickness with FIRESAFE / FSP ⁽¹⁾ Wet film thickness ≥ 1 . Length extending 50 mm out on cables on both sides of the construction.

⁽¹⁾ Wet film thickness with FIRESAFE / FSP ⁽¹⁾ Wet film thickness ≥ 1.5 . Length extending 150 mm out on cables on both sides of the construction.

LSW-100: Light partition wall. Plaster walls, thickness ≥ 100 [mm].

MW-100: Masonry and cast wall construction, thickness ≥ 100 [mm]. Density 350 kg/m³.

MW-150: Masonry and cast wall construction s, thickness ≥ 150 [mm]. Density 350 kg/m³.

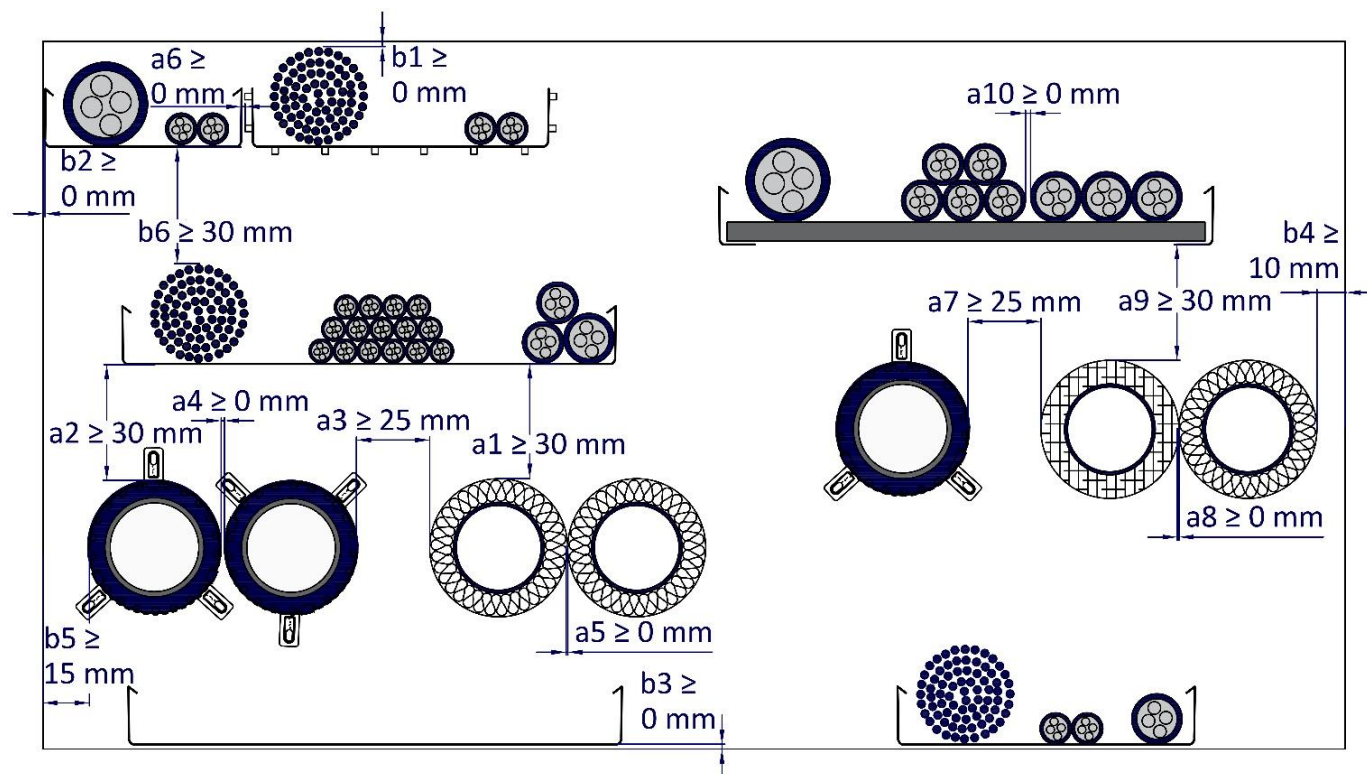
MV-150: Masonry and cast covering construction, thickness ≥ 150 [mm]. Density 400 kg/m³.

8. Distances

Mixed penetration seals, mutual distances and distances to recess edges.

Alternatively, distances between single penetrations and distances to recess edges. See table and figure.

Figure no.	Type of installation	Distance [mm]
a1	Distance between cables / cable trays and metal pipes.	≥ 30
a2	Distance between cables / cable trays and plastic pipes.	≥ 30
a3	Distance between metal pipes and plastic pipes.	≥ 25
a4	Distance between plastic pipes.	≥ 0
a5	Distance between metal pipes with non-flammable insulation.	≥ 0
a6	Horizontal distance between cable trays.	≥ 0
b6	Vertical distance between cable trays and other installations.	≥ 30
a7	Distance between plastic pipes and pipes with flammable insulation.	≥ 25
a8	Distance between pipes with non-flammable insulation and pipes with flammable insulation.	≥ 0
a9	Distance between cables / cable trays and pipes with flammable insulation.	≥ 30
a10	Distance between pipes stacked together or assembled in rows.	≥ 0
b1	Distance between cables / cable trays and upper seal edge.	≥ 0
b2	Distance between cables / cable trays and side seal edge.	≥ 0
b3	Distance between cables / cable trays and bottom seal edge.	≥ 0
b4	Distance between metal pipes and all seal edges.	≥ 10
b5	Distance between plastic pipes and all seal edges.	≥ 15



9. Empty recesses and maximum seal width for installation penetrations

Type of service	Joint size [mm]	Construction				Rating in minutes
		LSW-100	MW-100	MW-150	MV-150	
Maximum joint width and gap space	$\leq 187.5 \times 187.5$ *	✓	✓			EI 120
	$\leq 375 \times 375$ *			✓		
	$\leq 150 \times 150$ *				✓	EI 240

LSW-100: Light partition wall. Plaster walls with a thickness of ≥ 100 mm.

MW-100: Masonry and cast wall construction, thickness ≥ 100 mm. Density 350 kg/m^3 .

MW-150: Masonry and cast wall construction, thickness ≥ 150 mm. Density 350 kg/m^3 .

MV-150: Masonry and cast cover construction, thickness ≥ 150 mm. Density 400 kg/m^3 .

*Assumes the use of a rock wool backing material with a thickness of ≥ 25 mm and a density of $\geq 33 \text{ kg/m}^3$.

10. Service support - suspension systems and distances

Wall figure a: The distance to the nearest or first service support for all types of technical installations may be ≤ 450 mm from the fire partition, except for cable trays, which must be ≤ 250 mm from the fire partition.

Floor figure b: The distance to the nearest or first service support for all types of technical installations may be ≤ 450 mm from the fire partition, except for cable trays, which must be ≤ 250 mm from the fire partition.

Figure a.

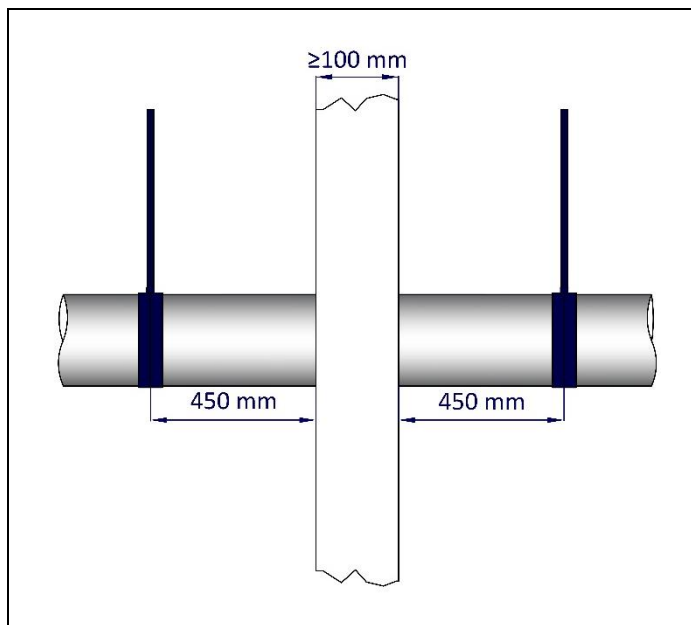
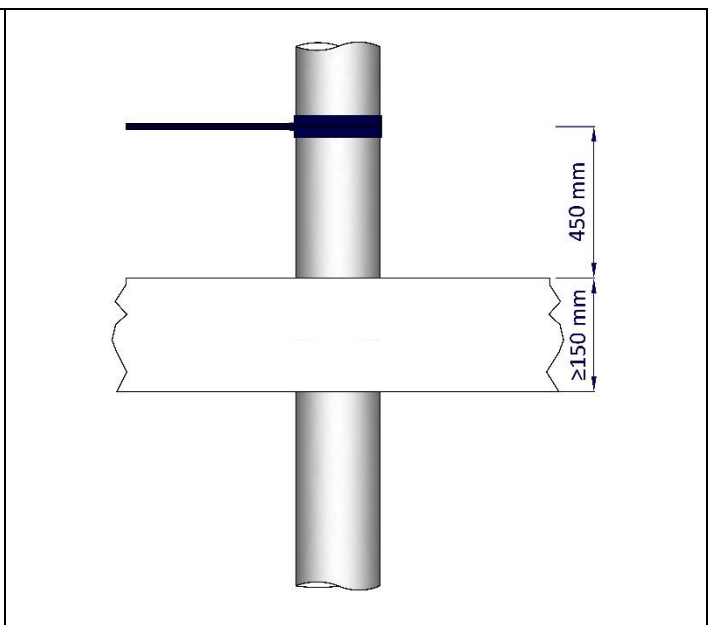
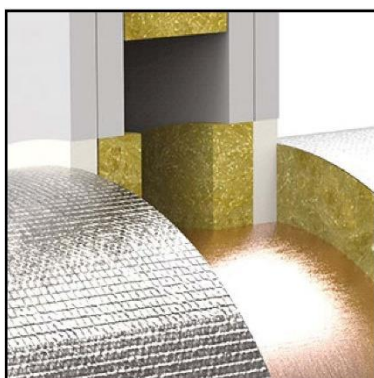


Figure b.



11. Fire sealing for pipe penetrations in plaster walls, masonry and cast walls, and floors

Openings around pipe penetrations may be sealed against fire on both insulated and non-insulated pipes using FIRESAFE / FSA to prevent smoke and hot gases from entering the adjacent fire compartments. Openings around pipes can also be sealed with and without a rock wool backing material. Rock wool backing materials must have a thickness of ≥ 25 mm and a density of ≥ 33 kg/m³. For further information, see our European approval ETA 25/0233.



12. Explanation of abbreviations for pipe ends (cf. EN 1366-3: 2021)

Instructions:

The test configuration will determine approval for the use of pipes. Before a type of pipe undergoes testing, the intended use of the pipes must be taken into account. Where will the plastic pipes be used in practice?

Test standard EN 1366-3 provides requirements for this. This will decide whether or not the pipe must be capped. See the test configuration in **Table 1** for flammable plastic pipes and **Table 2** for metal pipes.

During fire testing, the ends of the pipe and fire sealing systems must be tested to determine whether the pipes must be capped at one or both ends, or kept fully uncapped in the building. Pressure, smoke, and hot gases must not be able to pass through the pipes or fire sealing systems in the event of a fire.

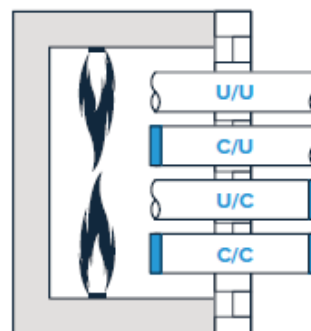


Table 1 - Test configuration for plastic pipes

Test setup	Pipe end		Permitted use			
	In oven	Outside of oven	U/U	C/U	U/C	C/C
U/U	Uncapped	Uncapped	✓	✓	✓	✓
C/U	Capped	Uncapped	X	✓	✓	✓
U/C	Uncapped	Capped	X	X	✓	✓
C/C	Capped	Capped	X	X	X	✓

* U/U tested, covers all pipe ends.

Table 2 - Test configuration for metal pipes

Test setup	Pipe end		Permitted use		
	In oven	Outside of oven	U/C	C/U	C/C
U/C *	Uncapped	Capped	✓	✓	✓
C/U	Capped	Uncapped	X	✓	✓
C/C	Capped	Capped	X	X	✓

* U/C tested, also covers U/U.

Plastic pipes

Table H.1 displays some examples of pipes and intended uses where the end of the pipe is capped or not. The table cannot take all possible usage options into account. When deciding whether to cap the end of the pipe or to let it remain uncapped, several factors must be considered: is the system under pressure, and is the system ventilated? Consider the service type of the pipe to determine whether it should be capped. If national regulations provide other requirements than those given in table H1, then these regulations shall apply.

13. Explanation of abbreviations for pipe ends in tables H.1 and H.2

Table H.1. Plastic pipes

Pipe type, type of service	Pipe end		Test setup
	In oven	Outside of oven	
Rainwater drainage	Uncapped	Uncapped	U/U
Sewage, ventilated	Uncapped	Uncapped	U/U
Sewage, non-ventilated	Uncapped	Capped	U/C
Gas pipes, drinking water pipes, hot water pipes	Uncapped	Capped	U/C
Capped pipe systems with permanent water pressure, water supply	Capped	Capped	C/C

Pipe ends C/U or U/C apply to wastewater pipes with a water trap in accordance with table H.1 in EN 1366-3.

Pipe ends C/C apply to pipes with permanent water pressure, e.g., pipes for hot and cold water supply following table H.1 in EN 1366-3.

Non-flammable metal pipes

Metal pipes are usually capped in the testing oven. As the metal will not melt away, it is assumed that there will not be an open end on the pipes in the event of a fire. It is therefore assumed that the suspension system will remain in place. If the pipes are supported by a suspension system that does not have a fire resistance, or if there are waste chutes, the metal pipes will not be capped in the testing oven, as shown in table H.2.

Table H.2. Metal pipes or non-flammable pipes

Pipe type, type of service	Pipe end		Test setup
	In oven	Outside of oven	
Service support – fire rated suspension system ^a	Capped	Uncapped	C/U
Service support – suspension system without fire resistance	Uncapped	Capped	U/C
Chute for waste disposal	Uncapped	Capped	U/C

^a must be documented via fire testing or calculations (e.g. Euro codes)

14. Requirements for the properties of structural components

Flexible plaster walls

The minimum thickness for walls must be 100 mm, and the wall must consist of steel or wood studs* with at least 2 layers of plaster cladding on each side, thickness 12.5 mm.

Masonry – cast walls

The minimum thickness for walls is 75 mm and the wall must consist of concrete, aerated concrete, or masonry with a density of at least 350 kg/m³ or timber (CLT) with a density of at least 400 kg /m³.

Masonry – cast floors or CLT

The minimum thickness for floors is 150 mm and the wall must consist of concrete, aerated concrete, or masonry with a density of at least 400 kg/m³ or cross-laminated timber (CLT) with a minimum thickness of 140 mm and a density of at least 400 kg /m³.

* There must be a distance of at least 100 mm from each part of the penetration joint to the tree studs, and the aperture between the penetration joint and the studs must be covered. The gap between the penetration joint and the studs must be fitted with at least 100 mm of insulation with fire classification A1 or A2 (in accordance with EN 13501-1). The construction must be classified in accordance with EN 13501-2 for the specified fire resistance.

FIRESAFE / FSA

Firestop Acrylic for Penetration Seals and Linear Joint Seals

TECHNICAL DATA SHEET

Date: 30/07/2025

Rev.: 0

Rev.: 0

Prepared by: PP

Checked by: HKE

European approvals:

ETA No: 25/0233 Penetration Seals

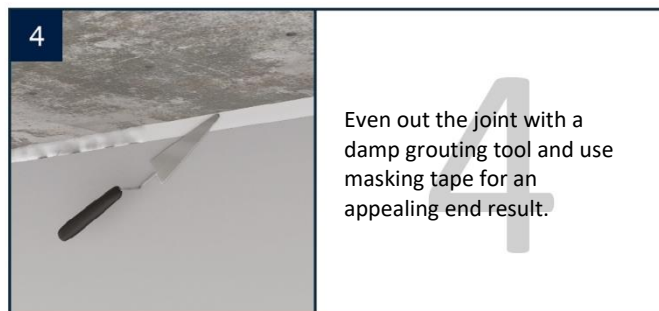
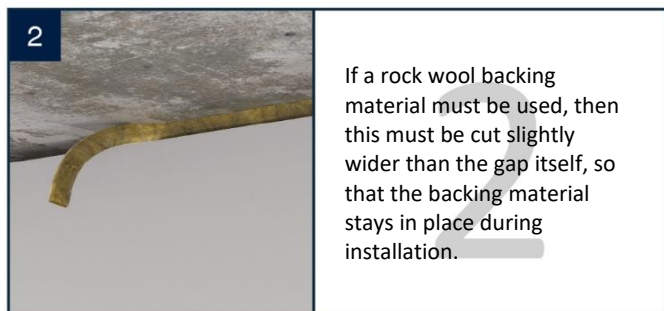
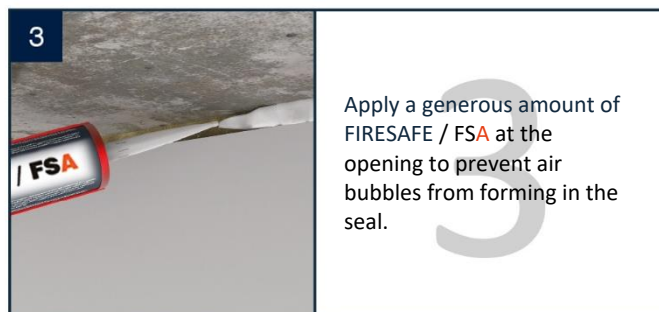
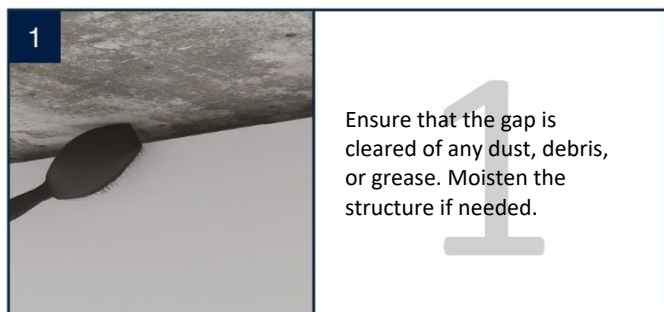
ETA No: 25/0235 Linear Joint Seals

DoP No: FS/PP/FSA - 30/07/2025

CE 2821

LINEAR JOINTS

1. Installation instructions



FIRESAFE / FSA

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2. Packaging

FIRESAFE / FSA	Contents	Box	Pallet	Pallet	Item no.
Plastic cartridge	310 ml	12 pcs.	128 boxes	1536 pcs.	100.200
Sausage	300 ml	18 pcs.	98 boxes	1764 pcs.	100.201
Sausage	600 ml	12 pcs.	91 boxes	1092 pcs.	100.202

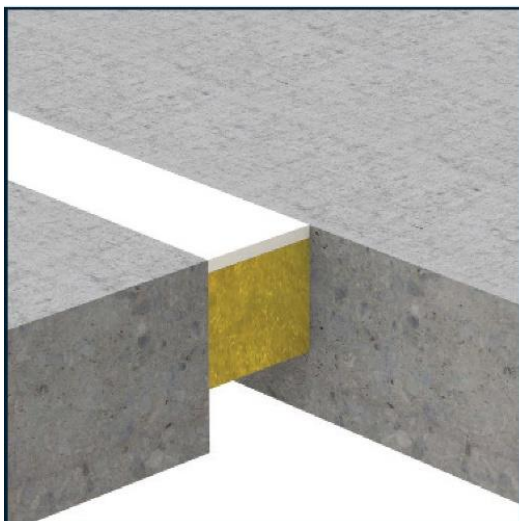
3. Usage table per 310 ml. Joint metre per packaging m¹

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	100 mm
Joint depth 12.5 mm	2.45 m ¹	1.65 m ¹	1.20 m ¹	1.00 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹
Joint depth 15 mm	2.05 m ¹	1.35 m ¹	1.00 m ¹	0.80 m ¹	0.65 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹
Joint depth 25 mm	1.20 m ¹	0.80 m ¹	0.60 m ¹	0.50 m ¹	0.40 m ¹	0.30 m ¹	0.25 m ¹	0.20 m ¹	0.15 m ¹	0.10 m ¹

Usage table per 600 ml. Joint metre per packaging m¹

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm	60 mm	80 mm	100 mm
Joint depth 12.5 mm	4.80 m ¹	3.20 m ¹	2.40 m ¹	1.90 m ¹	1.60 m ¹	1.20 m ¹	0.95 m ¹	0.80 m ¹	0.60 m ¹	0.45 m ¹
Joint depth 15 mm	4.00 m ¹	2.65 m ¹	2.00 m ¹	1.60 m ¹	1.30 m ¹	1.00 m ¹	0.80 m ¹	0.65 m ¹	0.50 m ¹	0.40 m ¹
Joint depth 25 mm	2.40 m ¹	1.60 m ¹	1.20 m ¹	0.95 m ¹	0.80 m ¹	0.60 m ¹	0.45 m ¹	0.40 m ¹	0.30 m ¹	0.20 m ¹

For better acoustic or fire safety properties, a backing material may be used.



4. Fire safety performance, joints

Linear joints between walls and wood framework (e.g. windowpanes and doors if the installation instructions for windows and doors allow for this).

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between plaster wall and wooden frame	≥ 100	1*	≥ 10	PE foam	≥ 10	≤ 15	EI 90 - V - X - F - W00 to W15
		2				≤ 30	EI 90 - V - X - F - W00 to W30
Between masonry-cast wall and wooden framework		1*				≤ 15	EI 90 - V - X - F - W00 to W15
		2				≤ 30	EI 90 - V - X - F - W00 to W30

Vertical linear joints between plaster walls and masonry-cast walls.

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between plaster walls and masonry-cast walls	≥ 100	2	≥ 12.5	MS profile	≥ 50	≤ 15	EI 90 - V - X - F - W00 to W15
			≥ 25	None	-		E 180 - V - X - F - W00 to W15
			≥ 12.5	Rock wool	≥ 12.5	≤ 30	EI 120 - V - X - F - W00 to W30 E 180 - V - X - F - W00 to W30

Horizontal linear between plaster walls and masonry-cast walls and floors.

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between plaster walls and masonry-cast floors	≥ 100 wall	2	≥ 12.5	MS profile	≥ 50	≤ 30	EI 120 - T - X - F - W00 to W30 E 180 - T - X - F - W00 to W30
	≥ 150 floor		≥ 25	MS profile + Rock wool	≥ 50 + 12.5		
			≥ 12.5				

Vertical joints between masonry-cast walls.

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between masonry-cast walls and masonry-cast walls	≥ 100	2	≥ 10	PE foam	≥ 10	≤ 15	EI 180 - V - X - F - W00 to W15
		1*					EI 30 - V - X - F - W00 to W15 E 180 - V - X - F - W00 to W15
		2	≥ 15			≤ 30	EI 120 - V - X - F - W00 to W30 E 180 - V - X - F - W00 to W30
		1*					EI 60 - V - X - F - W00 to W30 E 180 - V - X - F - W00 to W30
			≥ 20			≤ 40	EI 30 - V - X - F - W00 to W40 E 180 - V - X - F - W00 to W40
	≥ 150	2	≥ 15	Rock wool	≥ 20	≤ 30	EI 240 - V - X - F - W00 to W30
		1*	≥ 10		≥ 60	≤ 50	EI 120 - V - X - F - W00 to W50 E 180 - V - X - F - W00 to W50

*	Either side
**	Top side of floor
V	Vertical joint
H	Horizontal joint
T	Horizontal application between walls and floor
X	No absorption of motion during testing
F	Installed and applied on site, no prefabricated components
W	Certified and tested widths

4. Fire safety performance, joints

Horizontal linear joints between masonry-cast walls

Construction	Thickness [mm]	Installation side(s)	Min. joint Depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between masonry-cast walls and masonry-cast walls	≥ 150	2	≥ 15	Rock wool	≥ 25	≤ 40	EI 240 - T - X - F - W00 to W40
		1*	≥ 10		≥ 100	≤ 100	EI 240 - T - X - F - W00 to W100
		2			≥ 50		

Horizontal linear joints between masonry-cast walls and masonry-cast floors

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between masonry-cast walls and masonry-cast floors	≥ 100 wall	2	≥ 10	PE foam	≥ 10	≤ 15	EI 180 - T - X - F - W00 to W15
		1*				≤ 30	EI 30 - T - X - F - W00 to W15 E 180 - T - X - F - W00 to W15
	2	≥ 15	EI 180 - T - X - F - W00 to W30				
	1*		EI 60 - T - X - F - W00 to W30 E 180 - T - X - F - W00 to W30				
	≥ 150 floor	2	Rock wool	≥ 20	EI 240 - T - X - F - W00 to W30		
		1*		≥ 10	≥ 60	≤ 50	EI 180 - T - X - F - W00 to W50

Horizontal linear joints between masonry-cast walls and steel floors

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes
				Type	Depth [mm]		
Between masonry-cast walls and masonry-cast steel floors	≥ 100 wall ≥ 150 floor	2	≥ 15	Rock wool	≥ 70	≤ 30	EI 120 - T - X - F - W00 to W30 E 180 - T - X - F - W00 to W30

Linear joints between masonry-cast floors

Construction	Thickness [mm]	Installation side(s)	Min. joint depth [mm]	Backing material		Maximum joint width [mm]	Rating in minutes	
				Type	Depth [mm]			
Between masonry-cast floors and masonry-cast floors	≥ 150	2	≥ 50	Rock wool	≥ 25	≤ 40	EI 240 - H - X - F - W00 to W40	
		1*			≥ 90	≤ 10	EI 240 - H - X - F - W00 to W100	
		1**	≥ 10					
		2						

*	Either side
**	Top side of floor
V	Vertical joint
H	Horizontal joint
T	Horizontal application between walls and floor
X	No absorption of motion during testing
F	Installed and applied on site, no prefabricated components
W	Certified and tested widths

FIRESAFE / FSA

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5. Available documents and approvals for FIRESAFE / FSA

Technical documents
✓ Product data sheet (PDS)
✓ Technical data sheet (TDS)
✓ Safety data sheet (SDS)
✓ CE marking
✓ Emissions reports
✓ Acoustics report

Approvals
✓ Tested in accordance with EN 1366-3
✓ Tested in accordance with EN 1366-4
✓ Classification in accordance with EN 13501-1/2
✓ Certified in accordance with EAD 350454-00-1104
✓ ETA: 25/0233. Penetration Seals
✓ ETA: 25/0235. Linear Joint Seals
✓ Declaration of Performance (DoP)

The documents listed above can be obtained from your Firesafe contact person, via QR code (Digital Pass), or on the Firesafe website: www.firesafe.no.

