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European Technical Assessment

ETA-16/0102
Of 22/03/2022

General part

Technical Assessment Body issuing the European Technical Assessment:

SKG-IKOB Certificatie BV

Trade name of the construction product

Firesafe FT Silicone
Firesafe FT Flex strip
Firesafe FT Acrylic / Glava Akryl fugemasse /
Bevegoline Brandfog Akryl

Product family to which the construction
product belongs

Fire Stopping and Sealing Product:
Linear Joint and Gap Seals

Manufacturer

Firesafe AS
Robsrudskogen 15
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Tel.: +47 09 110
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Web: www.firesafe.no

Manufacturing plants

A003 and A006

This European Technical Assessment
contains

34 pages including 2 Annex which form an integral part of
this assessment.

This European Technical Assessment is
issued in accordance with regulation
(EU) No 305/2011, on the basis of
This version replaces

EAD 350141-00-1106, edition September 2017

ETA 16-0102, version 3, issued on 11/10/2019

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1 Technical description of the product

Firesafe FT Silicone, Firesafe FT Acrylic and Firesafe Flex strip are used to form a joint seal in linear joints, voids, gaps and other discontinuities within one or between two or more construction elements to reinstate the fire resistance performance of wall constructions.

Product	Properties
Firesafe FT Silicone	Is supplied in liquid form contained within 310 ml cartridges. The Sealant is gunned into the linear joint of adjacent separating elements, to a specified depth, if necessary, utilizing mineral fiber insulation backing material.

Product	Properties
Firesafe FT Acrylic (aka Glava Akryl fugemasse or Bevegoline Brandfog Akryl)	Is supplied in liquid form contained within 310 ml cartridges. The Sealant is gunned into the linear joint of adjacent separating elements, to a specified depth, if necessary, utilizing mineral fiber insulation backing material.

Product	Properties
Firesafe Flex strip	Is supplied in strips of 2m ¹ . The Strip is applied into the linear joint of adjacent separating elements, to a specified depth, if necessary, utilizing mineral fiber insulation backing material.

The applicant has submitted a written declaration that the product and/or constituents of the product contains no substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS - taking into account the installation conditions of the construction product and the release scenarios resulting from there.

In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

2 Specification of the intended uses in accordance with the applicable Assessment Document (hereinafter EAD)

2.1 Intended use

The intended use of system Firesafe FT Silicone and Firesafe Flex strip is to reinstate the fire resistance performance of linear joints in rigid wall constructions and in rigid floor constructions.

The specific elements of construction that the system Firesafe FT Silicone and Firesafe Flex strip may be used to provide a joint seal in, are as follows:

- Flexible walls: The wall must have a minimum thickness of 100 mm and comprise steel studs lined on both faces with minimum 2 layers of 12.5 mm thick boards; in compliance with EN 1363-1.
- Rigid walls: The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³ or 100 mm 5 layered CLT wall.
- Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³ or 140 mm 5 layered CLT floor.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. Detailed information and data are given in Annex A.

Environmental conditions are:

Type X: intended for use in conditions exposed to weathering

Type Z₁: intended for use in internal conditions with humidity equal to or higher than 85 % RH, excluding temperatures below 0°C

Type Z₂: intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

2.2 Working life

The assumed working life of Firesafe FT Silicone and Firesafe Flex strip are for the intended use 10 years, provided that the assembled product is subject to appropriate installation, use and maintenance. The indication of 10 years cannot be interpreted as a guarantee given by Firesafe, but should only be regarded as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3. Performance of the product and references to the methods used for its assessment

The assessment of fitness for use has been made in accordance with EAD 350141-00-1106.

Firesafe FT Silicone		
No	Essential Characteristic	Product performances
BWR 2 Safety in case of fire		
1	Reaction to fire	Class F
2	Resistance to fire	See annex A
BWR 3 Hygiene, health and environment		
3	Content, emission and/or release of dangerous substances	Declaration of manufacturer
4	Air permeability (material property)	No performance assessed
5	Water permeability (material property)	No performance assessed
BWR 4 Safety and accessibility in use		
6	Mechanical resistance and stability	No performance assessed
7	Resistance to impact/movement	No performance assessed
8	Adhesion	passed
9	Durability	X
10	Movement capability	≤ 25 %
11	Cycling of perimeter seals for curtain walls	Not relevant
12	Compression set	Not relevant
13	Linear expansion on setting	Not relevant
BWR 5 Protection against noise		
10	Airborne sound insulation	See annex B
BWR 6 Energy economy and heat retention		
11	Thermal properties	No performance assessed
12	Water vapour permeability	No performance assessed

Firesafe FT Acrylic		
No	Essential Characteristic	Product performances
BWR 2 Safety in case of fire		
1	Reaction to fire	Class F
2	Resistance to fire	See annex A
BWR 3 Hygiene, health and environment		
3	Content, emission and/or release of dangerous substances	Declaration of manufacturer
4	Air permeability (material property)	No performance assessed
5	Water permeability (material property)	No performance assessed
BWR 4 Safety and accessibility in use		
6	Mechanical resistance and stability	No performance assessed
7	Resistance to impact/movement	No performance assessed
8	Adhesion	Passed
9	Durability	Z ₂
10	Movement capability	< 7,5 %
11	Cycling of perimeter seals for curtain walls	Not relevant
12	Compression set	Not relevant
13	Linear expansion on setting	Not relevant
BWR 5 Protection against noise		
10	Airborne sound insulation	See annex B
BWR 6 Energy economy and heat retention		
11	Thermal properties	No performance assessed
12	Water vapour permeability	No performance assessed

Firesafe Flex strip		
No	Essential Characteristic	Product performances
BWR 2 Safety in case of fire		
1	Reaction to fire	Class E
2	Resistance to fire	See annex A
BWR 3 Hygiene, health and environment		
3	Content, emission and/or release of dangerous substances	Declaration of manufacturer
4	Air permeability (material property)	No performance assessed
5	Water permeability (material property)	No performance assessed
BWR 4 Safety and accessibility in use		
6	Mechanical resistance and stability	No performance assessed
7	Resistance to impact/movement	No performance assessed
8	Adhesion	Passed
9	Durability	Z ₁
10	Movement capability	≤ 25 %
11	Cycling of perimeter seals for curtain walls	Not relevant
12	Compression set	No performance assessed
13	Linear expansion on setting	Not relevant
BWR 5 Protection against noise		
10	Airborne sound insulation	See annex B
BWR 6 Energy economy and heat retention		
11	Thermal properties	No performance assessed
12	Water vapour permeability	No performance assessed

4 **Assessment and verification of consistency of performance (hereinafter AVCP) system applied, with reference to its legal base**

According to the decision 1999/454/EC – Commission Decision of date 22nd June 1999 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see <http://eur-lex.europa.eu/JOIndex.do>) of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and fire sealing products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Tasks of the manufacturer

Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this European technical Assessment. The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan of 13/11/2018 relating to the European technical assessment ETA 16/0102 issued on 22/03/2022 which is part of the technical documentation of this European technical approval. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at SKG-IKOB.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan.

Other tasks of the manufacturer

Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

(a) Technical data sheet:

- Field of application:
- Building elements for which the linear joint seal is suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.
- Limits in size, minimum thickness etc. of the linear joint seal
- Construction of the linear joint seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.

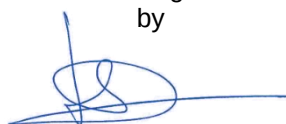
(b) Installation instruction:

- Steps to be followed
- Procedure in case of retrofitting
- Stipulations on maintenance, repair and replacement

Issued in Geldermalsen, the Netherlands on 22/03/2022

The original English version is signed on behalf of SKG-IKOB

by



ir. H.A.J. van Dartel
Certification Manager

Firesafe Field of Application

subpage

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[How-to-read FoA charts](#)

ANNEX A fire resistant performances

pipe penetrations

- 4 plastic pipes - EN norms
- 5 PE + PP + PVC
- 6 PP-R
- 7 PP-MD
- 8 PP-MX
- 9 aluPE-X
- 10 PE-Xa
- metal pipes
- 11 copper
- 12 steel
- 13 cast iron

cable penetrations

- 14 cable trays + ladders + wire mesh
- 15 cables + bundles

air control services

- 16 fire dampers
- 16 air transfer grilles
- 16 duct cladding

structural joints

- 17 [linear \(expansion\) joints](#)

electrical socket boxes

FR sockets + wiring

blank seals

gaps + openings without any service penetrations

ANNEX B acoustical performances

[sound insulation: penetrations + joints + blank seals](#)

How-to-read

charts Field of Application Firesafe fire rated building products

certification

Use FoA charts as guideline to quickly identify suitable Firesafe products within classification.

Always apply acc. details as stated per principle detail; click [EI performance](#) in chart.

supporting construction

- 1** product has been tested in + certified for constructive element, default type:
flexible wall $\geq 100\text{mm}$; metal or timber studs, plaster board type A + wall insulation
1-n100 flexible wall $\geq 100\text{mm}$; metal or timber studs, plaster board type F, **no** wall insulation
1-n75 flexible wall $\geq 75\text{mm}$; metal or timber studs, plaster board type F, **no** wall insulation
2 rigid wall $\geq 100\text{mm}$: blockwork/concrete/masonry, density $\geq 600 \text{ kg/m}^3$
3 rigid wall $\geq 150\text{mm}$: blockwork/concrete/masonry, density $\geq 600 \text{ kg/m}^3$
4 flexible ceiling $\geq 150\text{mm}$: metal studs, plaster board type F
5 rigid floor $\geq 150\text{mm}$: (aerated) concrete, density $\geq 600 \text{ kg/m}^3$
6 CLT wall $\geq 100\text{mm}$
7 CLT floor $\geq 140\text{mm}$

Note

Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

tested in construction type **1**

also applicable in constructive element type **2+3** if wall thickness + m^3 weight are either equal or increased

tested in construction type **2**

also application in constructive element type **3** if wall thickness + m^3 weight are either equal or increased

tested in FT Board

also applicable in GPG fireseal

"you may always upgrade, but never downsize"

pipe penetrations

type of **plastic**

all plastic pipe types acc. [EN norms](#)

type of **metal**

all copper or steel or pipes; also suitable for material with lower thermal conductivity + melting point at least equal to tested material

EI

fire resistance in minutes (integrity + insulation)

U/U + U/C + C/U + C/C

pipe end uncapped U / capped C at resp. exposed + unexposed side

pipe insulation

- all synthetic rubber min. 60 kg/m^3 eg Armaflex
- all glass wool or rock wool min. 75 kg/m^3 eg Climpipe or U Protect Pipe Section Alu2
- all polyolefin foam min. 28 kg/m^3 eg Uponor
- all PIR min. 33 kg/m^3

LS

local sustained = partly insulated pipe; **total** insulation length in mm through constructive element (symmetrically)

LI

local interrupted = partly insulated pipe; insulation length in mm **on either side** of constructive element

CS

continued sustained = fully insulated pipe

CI

continued interrupted = fully insulated pipe, yet interrupted in constructive element

max. opening

see principle detail, plus:

- allowed oversize opening $\leq 15\text{mm}$ with FIRE COLLAR + Fire Wrap; if larger, use FT Board:
walls: max. $600 \times 1200 \text{ mm} + 25\%$, floors: max. $1000 \times 1200 \text{ mm}$ up to $600 \times 5000 \text{ mm}$
- allowed '**oversized**' collar $\leq 15\text{mm}$, eg use $\varnothing 90$ collar for $\varnothing 80$ pipe

Note

Support pipes; support distance: see principle detail.

Fasten glass wool or rock wool individually (not wrapped!) with steel wire; see principle detail.

Firesafe

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How-to-read

charts Field of Application Firesafe fire rated building products

certification

Use FoA charts as guideline to quickly identify suitable Firesafe products within classification.

Always apply acc. details as stated per principle detail; click [EI performance](#) in chart.

cable penetrations

type of **service**

all steel (galvanised) cable trays + ladders, non-perforated + perforated

all steel (galvanised) mesh wire cable trays

EI

fire resistance in minutes (integrity + insulation)

minimum working spaces

configuration		horizontal	vertical
Min. distances from opening edges	LARGE	35mm	30 mm
	MIXED	30 mm	0 mm
Min. distances between services	LARGE	5mm	100 mm
	MIXED	20 mm	20 mm

cable groups

group 1 - small sheathed	max. Ø 21mm
group 2 - medium sheathed	max. Ø 50mm
group 3 - large sheathed	max. Ø 80mm
group 4 - data + fibre optic	max. Ø 100mm bundle
group 5 - non-sheathed	max. Ø 23mm
conduit, steel or plastic	max. Ø 16mm

max. opening

see principle detail

Note

Support cable services; support distance: see principle detail.

blank seals

EI

gaps + openings **without any service penetrations**

fire resistance in minutes (integrity + insulation)

[up to EI 120](#) for application in walls + floors

Firesafe

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field of application		fire resistance - EI classification acc. EN 13501-2 / EN 1366-4		smoke resistance acc. EN 1634-3 : S _a - S ₂₀₀		Firesafe																																																													
structural joints		certification - EAD 350454-00-1106																																																																	
LINEAR JOINTS classification Fire performances are valid for structural (linear) joints within range: joint width up to 100 mm expansion up to 25%		suitable Firesafe products within classification: <table><thead><tr><th colspan="2">FT Flex Strip DoP CPR-16/0102</th><th colspan="2">FT Acrylic or FT Paste DoP CPR-16/0102</th><th colspan="2">FT Silicone DoP CPR-16/0102</th></tr></thead><tbody><tr><td>walls</td><td>floors</td><td>walls</td><td>floors</td><td>walls</td><td>floors</td></tr><tr><td>vertical + horizontal, incl. abutting floors</td><td>horizontal, incl. abutting walls</td><td>vertical + horizontal, incl. abutting floors</td><td>horizontal, incl. abutting walls</td><td>vertical + horizontal, incl. abutting floors</td><td>horizontal, incl. abutting walls</td></tr><tr><td> EI 120 T-M025-F-00-11 horizontal </td><td> results max. EI 240 H-M025-F-W 00-11 horizontal </td><td></td><td></td><td></td><td></td></tr><tr><td> EI 120 T-M025-F-W 00-25 horizontal </td><td> results max. EI 180 H-M025-F-W 00-25 horizontal </td><td> 20mm joint width EI 90 T-M007-F-W 00-20 horizontal </td><td></td><td></td><td></td></tr><tr><td> EI 90 V-M025-F-W 00-25 vertical </td><td></td><td> 20mm joint width EI 90 V-M007-F-W 00-20 vertical </td><td></td><td></td><td></td></tr><tr><td> results max. EI 120 T-M025-F-W 00-50 horizontal </td><td> results max. EI 120 H-M025-F-W 00-50 horizontal </td><td> results max. EI 90 V-M007-F-W 00-50 vertical </td><td> EI 120 H-M007-F-W 00-50 horizontal </td><td> EI 60 T-M025-F-W 00-50 horizontal </td><td> EI 120 H-M025-F-W 00-50 horizontal </td></tr><tr><td> EI 60 V-M025-F-W 00-50 vertical </td><td></td><td></td><td></td><td> results max. EI 240 V-M025-F-W 00-50 vertical </td><td></td></tr><tr><td></td><td></td><td></td><td></td><td> EI 60 V-M025-F-W 00-99 vertical </td><td></td></tr><tr><td colspan="2"> default: joint width = strip width (nominal) friction-fixed: max. expansion 40% </td><td colspan="2"> joint details: width: full width depth: see principle detail self-adhering: max. expansion 12,5% </td><td colspan="2"> joint details: width: full width depth: see principle detail self-adhering: max. expansion 25% </td></tr></tbody></table>				FT Flex Strip DoP CPR-16/0102		FT Acrylic or FT Paste DoP CPR-16/0102		FT Silicone DoP CPR-16/0102		walls	floors	walls	floors	walls	floors	vertical + horizontal, incl. abutting floors	horizontal, incl. abutting walls	vertical + horizontal, incl. abutting floors	horizontal, incl. abutting walls	vertical + horizontal, incl. abutting floors	horizontal, incl. abutting walls	EI 120 T-M025-F-00-11 horizontal	results max. EI 240 H-M025-F-W 00-11 horizontal					EI 120 T-M025-F-W 00-25 horizontal	results max. EI 180 H-M025-F-W 00-25 horizontal	20mm joint width EI 90 T-M007-F-W 00-20 horizontal				EI 90 V-M025-F-W 00-25 vertical		20mm joint width EI 90 V-M007-F-W 00-20 vertical				results max. EI 120 T-M025-F-W 00-50 horizontal	results max. EI 120 H-M025-F-W 00-50 horizontal	results max. EI 90 V-M007-F-W 00-50 vertical	EI 120 H-M007-F-W 00-50 horizontal	EI 60 T-M025-F-W 00-50 horizontal	EI 120 H-M025-F-W 00-50 horizontal	EI 60 V-M025-F-W 00-50 vertical				results max. EI 240 V-M025-F-W 00-50 vertical						EI 60 V-M025-F-W 00-99 vertical		default: joint width = strip width (nominal) friction-fixed: max. expansion 40%		joint details: width: full width depth: see principle detail self-adhering: max. expansion 12,5%		joint details: width: full width depth: see principle detail self-adhering: max. expansion 25%		► INDEX PE + PP + PVC plastic cable conduits PP-R PP-MD PP-MX aluPE-X PE-Xa copper steel steel conduits cast iron trays + ladders + wire mesh cables + bundles fire dampers air transfer grilles duct cladding linear joints socket boxes blank seals	
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		Orientation H = horizontal supporting construction V = vertical supporting construction - vertical joint T = vertical supporting construction - horizontal joint		Movement capability X = no movement M000 = movement induced (%) Joint widths range (mm) W00 to 99		Constructive element must be classified acc. EN 13501-2 for the required fire resistance period: 1: flexible wall ≥100mm, insulated 1-n100: flexible wall ≥100mm, non-insulated 1-n75: flexible wall ≥75mm, non-insulated 2: rigid wall ≥100mm 3: rigid wall ≥150mm 4: flexible ceiling ≥150mm 5: rigid floor ≥150mm 6: CLT wall ≥100mm 7: CLT floor ≥140mm																																																													
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Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-31

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾		Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	1 side, unexp.	-	11 mm
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	2 sides	-	11 mm
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	1 side, unexp.	-	25 mm
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	1 side, unexp.	-	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	2 sides	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-20

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾			Firesafe joint strip		application	backing	max. opening
width		configuration	orientation			width ²⁾	depth	1 or 2 sides	required	in construction
up to										
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	1 side, unexp.	-	11 mm	
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	2 sides	-	11 mm	
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	1 side, unexp.	-	25 mm	
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	2 sides	-	25 mm	
max.										
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	1 side, unexp.	-	50 mm	
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	2 sides	-	50 mm	

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-42

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾		Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	1 side, unexp.	-	11 mm
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	2 sides	-	11 mm
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	1 side, unexp.	-	25 mm
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	1 side, unexp.	-	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	2 sides	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-32

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾		Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	1 side, unexp.	-	11 mm
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	15 mm	30 mm	2 sides	-	11 mm
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	1 side, unexp.	-	25 mm
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	1 side, unexp.	-	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	56 mm	50 mm	2 sides	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-43

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾			Firesafe joint strip		application	backing	max. opening
width		configuration	orientation			width ²⁾	depth	1 or 2 sides	required	in construction
up to										
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		15 mm	30 mm	1 side, unexp.	-	11 mm
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		15 mm	30 mm	2 sides	-	11 mm
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		30 mm	50 mm	1 side, unexp.	-	25 mm
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		30 mm	50 mm	2 sides	-	25 mm
max.										
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		56 mm	50 mm	1 side, unexp.	-	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		56 mm	50 mm	2 sides	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

24-21

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾			Firesafe joint strip		application	backing	max. opening
width		configuration	orientation			width ²⁾	depth	1 or 2 sides	required	in construction
up to										
11 mm	EI 180	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		15 mm	30 mm	1 side, unexp.	-	11 mm
	EI 240	H-M025-F-W 00-11	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		15 mm	30 mm	2 sides	-	11 mm
25 mm	EI 120	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		30 mm	50 mm	1 side, unexp.	-	25 mm
	EI 180	H-M025-F-W 00-25	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		30 mm	50 mm	2 sides	-	25 mm
max.										
50 mm	EI 60	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		56 mm	50 mm	1 side, unexp.	-	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm		56 mm	50 mm	2 sides	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period.

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

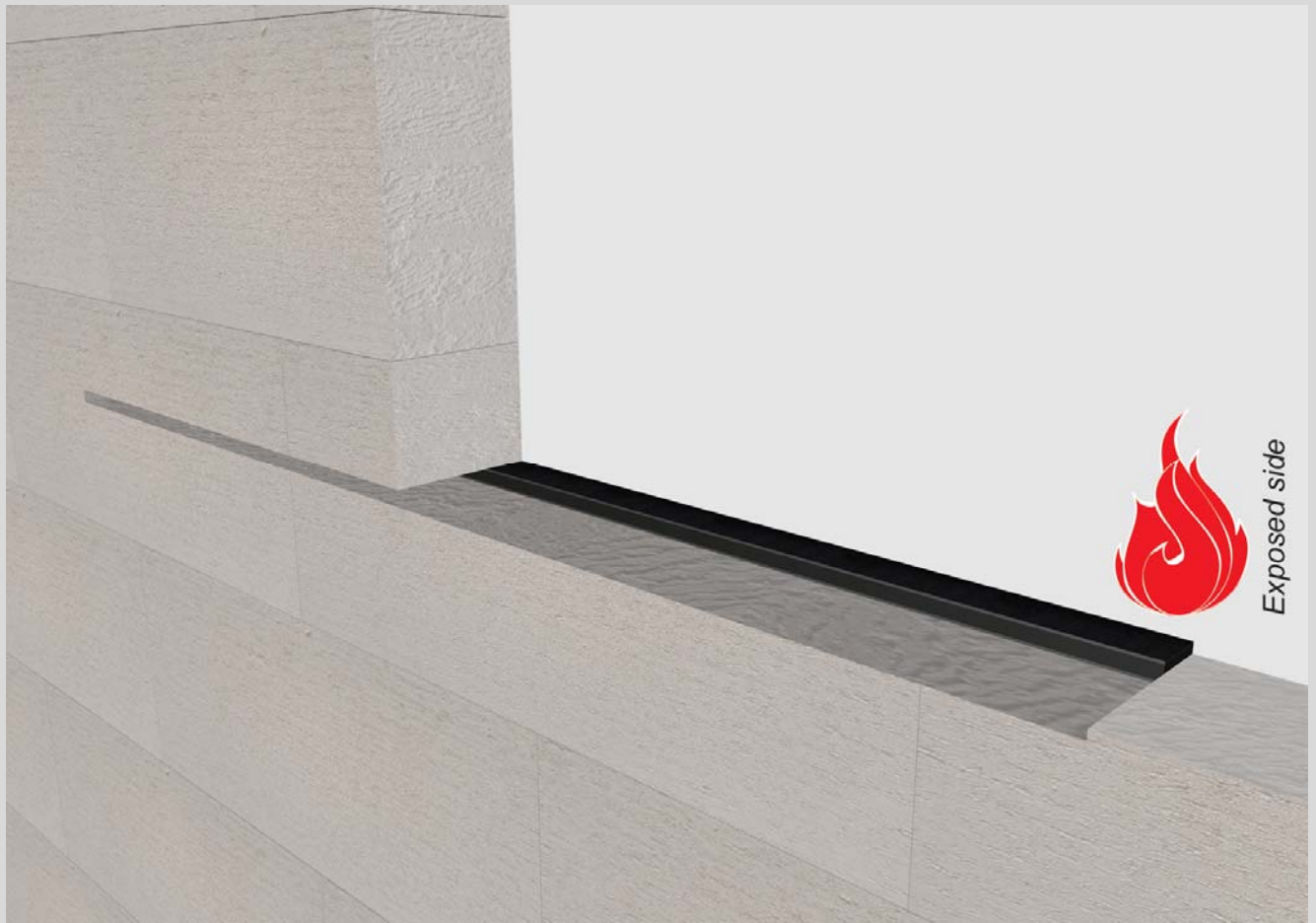
fire resistance

test method

EN 1366-4

service no.

21-27

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾		Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 120	T-M025-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-M025-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-M025-F-W 00-25	vertical	flexible walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-M025-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-M025-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	V-M025-F-W 00-50	vertical	flexible walls ≥ 100 mm	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

21-26

**joints****FT Flex Strip**

joints	 EI	test	constructive element ¹⁾		Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 120	T-M025-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-M025-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-M025-F-W 00-25	vertical	flexible walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-M025-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-M025-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	V-M025-F-W 00-50	vertical	flexible walls ≥ 100 mm	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

21-22

**joints****FT Flex Strip**

joints	 EI	test		constructive element ¹⁾	Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-MX-F-W 00-25	vertical	flexible walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	V-MX-F-W 00-50	vertical	flexible walls ≥ 100 mm	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

21-24

**joints****FT Flex Strip**

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint strip		application 1 or 2 sides	backing required	max. opening in construction
					width ²⁾	depth			
up to	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-MX-F-W 00-25	vertical	flexible walls $\geq 100\text{ mm}$	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	30 mm	50 mm	2 sides	-	25 mm
max.	EI 60	V-MX-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

21-21

**joints****FT Flex Strip**

joints	 EI	test		constructive element ¹⁾	Firesafe joint strip		application	backing	max. opening
width		configuration	orientation		width ²⁾	depth	1 or 2 sides	required	in construction
up to									
11 mm	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-MX-F-W 00-25	vertical	flexible walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	30 mm	50 mm	2 sides	-	25 mm
max.									
50 mm	EI 60	V-MX-F-W 00-50	vertical	flexible walls ≥ 100 mm	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls ≥ 100 mm	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

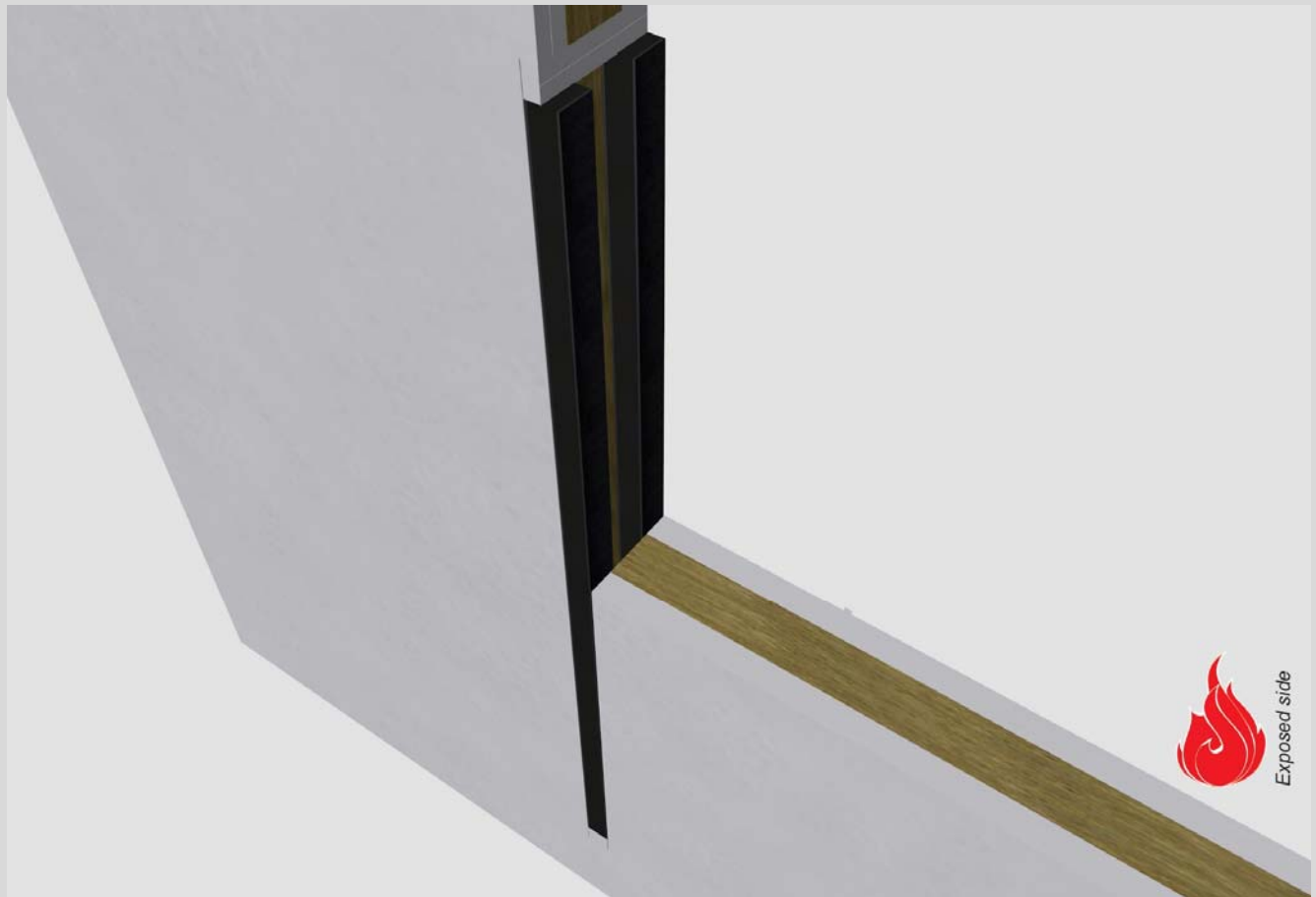
fire resistance

test method

EN 1366-4

service no.

14-4

**joints**

joints

joints

width

EI



test

configuration

orientation

constructive element ¹⁾

FT Flex Strip

Firesafe joint strip

width ²⁾

depth

application

1 or 2 sides

backing

required

max. opening

in construction

up to

11 mm

EI 120

T-MX-F-W 00-11

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

15 mm

30 mm

2 sides

-

11 mm

EI 120

T-MX-F-W 00-11

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

15 mm

30 mm

1 side

-

11 mm

25 mm

EI 90

V-MX-F-W 00-25

vertical

flexible walls ≥ 100 mm

30 mm

25 mm

2 sides

-

25 mm

EI 120

T-MX-F-W 00-25

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

30 mm

25 mm

2 sides

-

25 mm

EI 120

T-MX-F-W 00-25

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

30 mm

50 mm

2 sides

-

25 mm

max.

50 mm

EI 60

V-MX-F-W 00-50

vertical

flexible walls ≥ 100 mm

56 mm

25 mm

2 sides

-

50 mm

EI 120

T-MX-F-W 00-50

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

56 mm

50 mm

2 sides

-

50 mm

EI 60

T-MX-F-W 00-50

horizontal, incl. abutting floors

rigid walls ≥ 100 mm

56 mm

50 mm

1 side

-

50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- mount joint strip in opening, friction-fixed
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

fire resistance

test method

EN 1366-4

service no.

14-2

**joints****FT Flex Strip**

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint strip		application 1 or 2 sides	backing required	max. opening in construction
					width ²⁾	depth			
up to	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	15 mm	30 mm	2 sides	-	11 mm
	EI 120	T-MX-F-W 00-11	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	15 mm	30 mm	1 side	-	11 mm
25 mm	EI 90	V-MX-F-W 00-25	vertical	flexible walls $\geq 100\text{ mm}$	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	30 mm	25 mm	2 sides	-	25 mm
	EI 120	T-MX-F-W 00-25	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	30 mm	50 mm	2 sides	-	25 mm
max.	EI 60	V-MX-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	56 mm	25 mm	2 sides	-	50 mm
	EI 120	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	56 mm	50 mm	2 sides	-	50 mm
	EI 60	T-MX-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	56 mm	50 mm	1 side	-	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. compression: 40%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

test method

service no.

tested property

test method

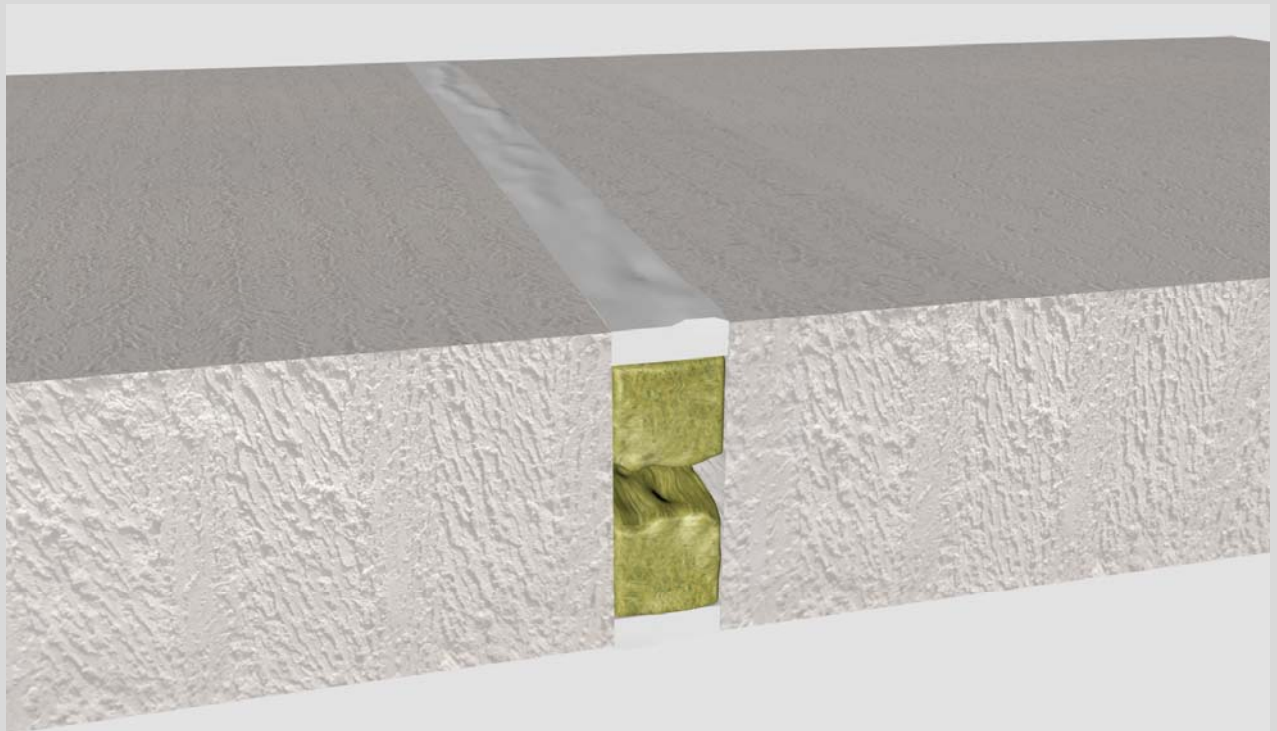
fire resistance

EN 1366-4

8-4-2

smoke resistance

EN 1634-3

**joints****FT Acrylic**

joints	 EI	test	constructive element ²⁾			Firesafe joint seal		application	backing required	max. opening
width		configuration	orientation			width ²⁾	depth	1 or 2 sides	rock wool min. 50 kg/m ³	in construction
max.										
20 mm	EI 90	T-M007-F-W 00-20	horizontal, incl. abutting walls	CLT walls ≥ 100 mm	20 mm	10 mm		2 sides	20 x 80 mm	20 mm
20 mm	EI 90	T-M007-F-W 00-20	vertical	CLT walls ≥ 100 mm	20 mm	10 mm		2 sides	20 x 80 mm	20 mm
50 mm	EI 90	V-M007-F-W 00-50	vertical	flexible walls ≥ 100 mm	50 mm	15 mm		2 sides	50 x 50 mm	50 mm
50 mm	EI 60	V-M007-F-W 00-50	vertical	flexible walls ≥ 100 mm	50 mm	10 mm		1 side	50 x 50 mm	50 mm
50 mm	EI 120	H-M007-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	50 mm	10 mm		2 sides	50 x 50 mm	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 12,5%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail

Firesafe

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

7-8

smoke resistance

EN 1634-3



joints

FT Acrylic

joints	EI	test	constructive element ²⁾	Firesafe joint seal	application	backing required	max. opening
width		configuration	orientation	width ²⁾ depth	1 or 2 sides	rock wool min. 50 kg/m ³	in construction
max.							
20 mm	EI 90	T-M007-F-W 00-20	horizontal, incl. abutting walls	CLT walls $\geq 100\text{ mm}$	20 mm 10 mm	2 sides	20 x 80 mm 20 mm
20 mm	EI 90	T-M007-F-W 00-20	vertical	CLT walls $\geq 100\text{ mm}$	20 mm 10 mm	2 sides	20 x 80 mm 20 mm
50 mm	EI 90	V-M007-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	50 mm 15 mm	2 sides	50 x 50 mm 50 mm
50 mm	EI 60	V-M007-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	50 mm 10 mm	1 side	50 x 50 mm 50 mm
50 mm	EI 120	H-M007-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm 10 mm	2 sides	50 x 50 mm 50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 12,5%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

27-32

smoke resistance

EN 1634-3

**joints****FT Acrylic**

joints		 EI	test	orientation	constructive element ²⁾	Firesafe joint seal		application	backing required	max. opening
width			configuration			width ²⁾	depth			
max.										
20 mm	EI 90	T-M007-F-W 00-20	horizontal, incl. abutting walls	CLT walls ≥ 100 mm	20 mm	10 mm	2 sides	20 x 80 mm	20 mm	
20 mm	EI 90	V-M007-F-W 00-20	vertical	CLT walls ≥ 100 mm	20 mm	10 mm	2 sides	20 x 80 mm	20 mm	
50 mm	EI 90	V-M007-F-W 00-50	vertical	flexible walls ≥ 100 mm	50 mm	15 mm	2 sides	50 x 50 mm	50 mm	
50 mm	EI 60	V-M007-F-W 00-50	vertical	flexible walls ≥ 100 mm	50 mm	10 mm	1 side	50 x 50 mm	50 mm	
50 mm	EI 120	H-M007-F-W 00-50	horizontal, incl. abutting walls	rigid floors ≥ 150 mm	50 mm	10 mm	2 sides	50 x 50 mm	50 mm	

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 12,5%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail

Firesafe

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

27-33

smoke resistance

EN 1634-3



joints

FT Acrylic

joints width	 EI	test configuration	orientation	constructive element ²⁾	Firesafe joint seal		application 1 or 2 sides	backing required rock wool min. 50 kg/m ³	max. opening in construction
					width ²⁾	depth			
max.									
20 mm	EI 90	T-M007-F-W 00-20	horizontal, incl. abutting walls	CLT walls $\geq 100\text{ mm}$	20 mm	10 mm	2 sides	20 x 80 mm	20 mm
20 mm	EI 90	V-M007-F-W 00-20	vertical	CLT walls $\geq 100\text{ mm}$	20 mm	10 mm	2 sides	20 x 80 mm	20 mm
50 mm	EI 90	V-M007-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	50 mm	15 mm	2 sides	50 x 50 mm	50 mm
50 mm	EI 60	V-M007-F-W 00-50	vertical	flexible walls $\geq 100\text{ mm}$	50 mm	10 mm	1 side	50 x 50 mm	50 mm
50 mm	EI 120	H-M007-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm	10 mm	2 sides	50 x 50 mm	50 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 12,5%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

23-52

smoke resistance

EN 1634-3

**joints****FT Silicone**

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint seal		application 1 or 2 sides	backing required default: rock wool min. 50 kg/m ³	max. opening in construction
					width ²⁾	depth			
up to	EI 120	V-M025-F-W 00-50	vertical	rigid walls $\geq 100\text{ mm}$	50 mm	15 mm	2 sides	50 x 20 mm	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	50 mm	10 mm	2 sides	50mm PU 25 kg/m ³	50 mm
	EI 240	V-M025-F-W 00-50	vertical	rigid walls $\geq 200\text{ mm}$	50 mm	15 mm	2 sides	45 x 60 mm	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm	10 mm	2 sides	50 x 50 mm	50 mm
max.									
100 mm	EI 60	V-M025-F-W 00-99	vertical	flexible walls $\geq 100\text{ mm}$	100 mm	10 mm	1 side	100 x 50 mm	100 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 25%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

0316

smoke resistance

EN 1634-3

**joints****FT Silicone**

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint seal		application 1 or 2 sides	backing required default: rock wool min. 50 kg/m ³	max. opening in construction
					width ²⁾	depth			
up to	EI 120	V-M025-F-W 00-50	vertical	rigid walls $\geq 100\text{ mm}$	50 mm	15 mm	2 sides	50 x 20 mm	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	50 mm	10 mm	2 sides	50mm PU 25 kg/m ³	50 mm
	EI 240	V-M025-F-W 00-50	vertical	rigid walls $\geq 200\text{ mm}$	50 mm	15 mm	2 sides	45 x 60 mm	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm	10 mm	2 sides	50 x 50 mm	50 mm
max.									
100 mm	EI 60	V-M025-F-W 00-99	vertical	flexible walls $\geq 100\text{ mm}$	100 mm	10 mm	1 side	100 x 50 mm	100 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 25%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail

Firesafe

tested property

test method

service no.

tested property

test method

fire resistance

EN 1366-4

7-9

smoke resistance

EN 1634-3



joints

FT Silicone

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint seal		application 1 or 2 sides	backing required default: rock wool min. 50 kg/m ³	max. opening in construction
					width ²⁾	depth			
up to	EI 120	V-M025-F-W 00-50	vertical	rigid walls $\geq 100\text{ mm}$	50 mm	15 mm	2 sides	50 x 20 mm	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	50 mm	10 mm	2 sides	50mm PU 25 kg/m ³	50 mm
	EI 240	V-M025-F-W 00-50	vertical	rigid walls $\geq 200\text{ mm}$	50 mm	15 mm	2 sides	45 x 60 mm	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm	10 mm	2 sides	50 x 50 mm	50 mm
max.	EI 60	V-M025-F-W 00-99	vertical	flexible walls $\geq 100\text{ mm}$	100 mm	10 mm	1 side	100 x 50 mm	100 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 25%.

Notes:

- installation instructions in TDS
- apply joint seal in opening
- EI for flexible walls $\geq 100\text{mm}$ is also applicable for **rigid walls** $\geq 100\text{mm}$

principle detail**Firesafe**

tested property

test method

service no.

tested property

test method

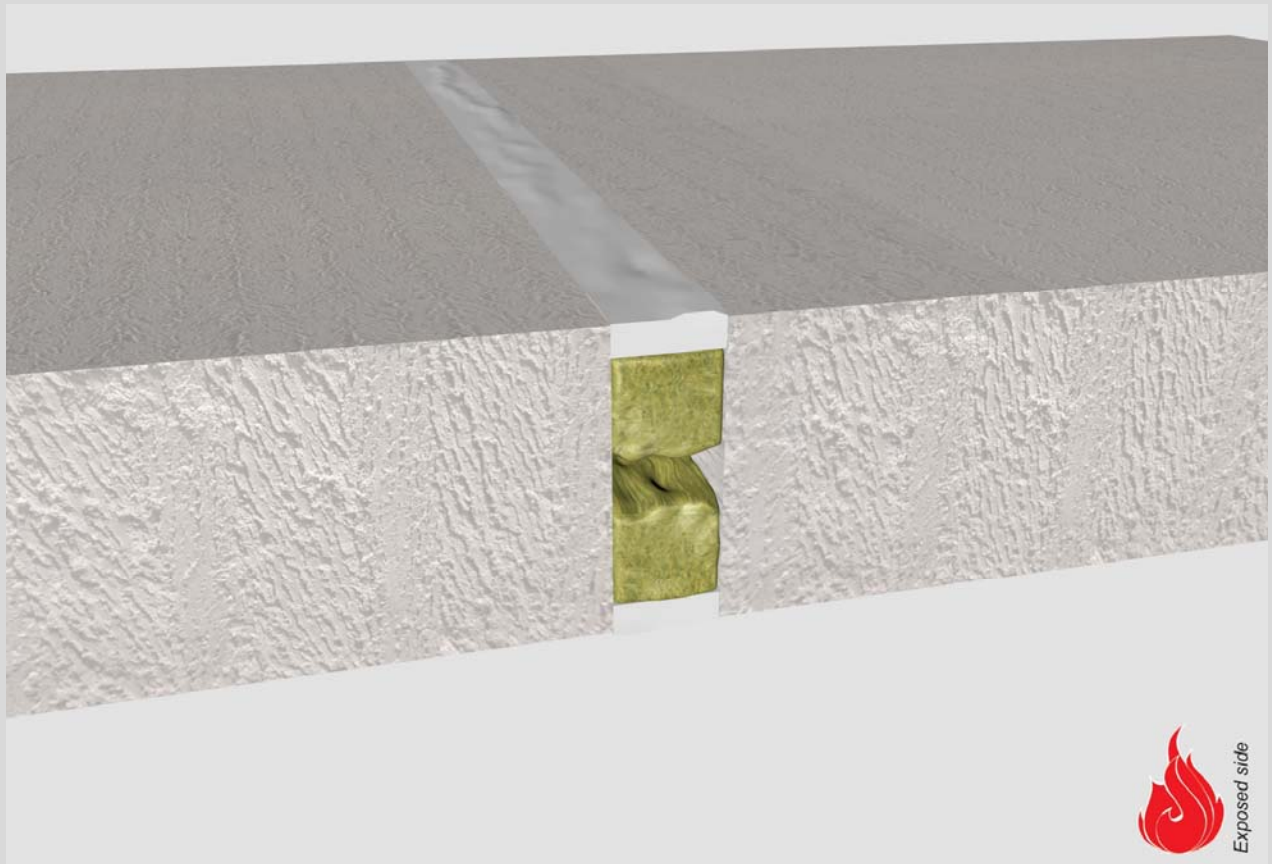
fire resistance

EN 1366-4

8-4-1

smoke resistance

EN 1634-3

**joints****FT Silicone**

joints width	 EI	test configuration	orientation	constructive element ¹⁾	Firesafe joint seal		application 1 or 2 sides	backing required default: rock wool min. 50 kg/m ³	max. opening in construction
					width ²⁾	depth			
up to	EI 120	V-M025-F-W 00-50	vertical	rigid walls $\geq 100\text{ mm}$	50 mm	15 mm	2 sides	50 x 20 mm	50 mm
	EI 60	T-M025-F-W 00-50	horizontal, incl. abutting floors	rigid walls $\geq 100\text{ mm}$	50 mm	10 mm	2 sides	50mm PU 25 kg/m ³	50 mm
	EI 240	V-M025-F-W 00-50	vertical	rigid walls $\geq 200\text{ mm}$	50 mm	15 mm	2 sides	45 x 60 mm	50 mm
	EI 120	H-M025-F-W 00-50	horizontal, incl. abutting walls	rigid floors $\geq 150\text{ mm}$	50 mm	10 mm	2 sides	50 x 50 mm	50 mm
max.									
100 mm	EI 60	V-M025-F-W 00-99	vertical	flexible walls $\geq 100\text{ mm}$	100 mm	10 mm	1 side	100 x 50 mm	100 mm

¹⁾ Constructive element must be classified acc. EN 13501-2 for the required fire resistance period. EI for flexible walls $\geq 100\text{mm}$ is also applicable for rigid walls $\geq 100\text{mm}$!

²⁾ Max. expansion: 25%.

joints

acoustic performance acc. EN 10140-2 + ISO 717-1

			acrylic mastic + paste		graphite mastic		silicone mastic		flexible joint strip		rockwool slab 50mm 2S	
joint width	joint detail (w x d)		on 1 side	on 2 sides	on 1 side	on 2 sides	on 1 side	on 2 sides	on 1 side	on 2 sides	on 1 side	on 2 sides
with backing												
50mm	50x15mm	R _{S,w}	44 dB	53 dB	43 dB	53 dB	49 dB	53 dB				
	+ PU backing Ø 70mm	D _{n,e,w}	51 dB	60 dB	50 dB	60 dB	56 dB	60 dB				
		R _w	31 dB	40 dB	30 dB	40 dB	36 dB	40 dB				
	50x15mm	R _{S,w}	50 dB	51 dB	47 dB	52 dB	50 dB	52 dB				
	+ rockwool backing 50 kg/m³	D _{n,e,w}	57 dB	58 dB	54 dB	59 dB	57 dB	59 dB				
		R _w	37 dB	38 dB	34 dB	39 dB	37 dB	39 dB				
no backing												
7mm	11x30mm	R _{S,w}							47 dB	51 dB		
		D _{n,e,w}							54 dB	58 dB		
		R _w							26 dB	30 dB		
12mm	11x30mm	R _{S,w}							46 dB	50 dB		
		D _{n,e,w}							53 dB	57 dB		
		R _w							27 dB	31 dB		
15mm	25x25mm	R _{S,w}							45 dB	51 dB		
		D _{n,e,w}							52 dB	58 dB		
		R _w							27 dB	33 dB		
	25x50mm	R _{S,w}							47 dB	50 dB		
		D _{n,e,w}							54 dB	57 dB		
		R _w							29 dB	32 dB		
25mm	25x25mm	R _{S,w}							40 dB	46 dB		
		D _{n,e,w}							47 dB	53 dB		
		R _w							24 dB	30 dB		
	25x50mm	R _{S,w}							44 dB	46 dB		
		D _{n,e,w}							51 dB	53 dB		
		R _w							28 dB	30 dB		
30mm	50x50mm	R _{S,w}							44 dB	48 dB		
		D _{n,e,w}							51 dB	55 dB		
		R _w							29 dB	33 dB		
50mm	50x50mm	R _{S,w}							40 dB	43 dB	32 dB	43 dB
		D _{n,e,w}							47 dB	50 dB	39 dB	50 dB
		R _w							27 dB	30 dB	19 dB	30 dB

2S = 2 sides coated with FT Coating

service penetrations

acoustic performance acc. EN 10140-2 + ISO 717-1

product specs			rockwool slab 50mm			
			FT Board 2S		FT Board 1S	
			on 1 side	on 2 sides	on 1 side	on 2 sides
empty opening	FT Board 50mm	R_w	24(-2;-3) dB	28(-1;-3) dB	25(-2;-4) dB	45(-3;-6) dB
pipe penetration	FT Board 50mm + plastic pipe	R_w				43(-2;-5) dB PVC pipe Ø 125mm
	FT Board 50mm + spiral pipe	R_w				42(-1;-4) dB spiral pipe Ø 125mmn
			2S = 2 sides coated with FT Coating		1S = 1 side coated with FT Coating	

how-to-read

$$R_s = L_1 - L_2 + 10 \lg \left(\frac{S_n I}{A I_n} \right)$$

$$D_{n,e} = L_1 - L_2 + 10 \lg \left(\frac{A_0}{A} \right)$$

$$R = L_1 - L_2 + 10 \lg \left(\frac{S}{A} \right)$$

L₁ = energy average sound pressure level in source room
L₂ = energy average sound pressure level in receiving room
S_n = reference area (S_n = 1 m²)
I = length of joint in used measurement set up (L = 2,187m)
A = equivalent absorption area in receiving room
I_n = reference length (I_n = 1m)
A₀ = reference absorption area (A₀ = 10m²)
S = area of free test opening in which test element is installed (S = 0,109 m²)

L₁ = energy average sound pressure level in source room
L₂ = energy average sound pressure level in receiving room
S_n = reference area (S_n = 1 m²)
I = length of joint in used measurement set up (L = 2,187m)
A = equivalent absorption area in receiving room
I_n = reference length (I_n = 1m)
A₀ = reference absorption area (A₀ = 10m²)
S = area of free test opening in which test element is installed (S = 0,109 m²)