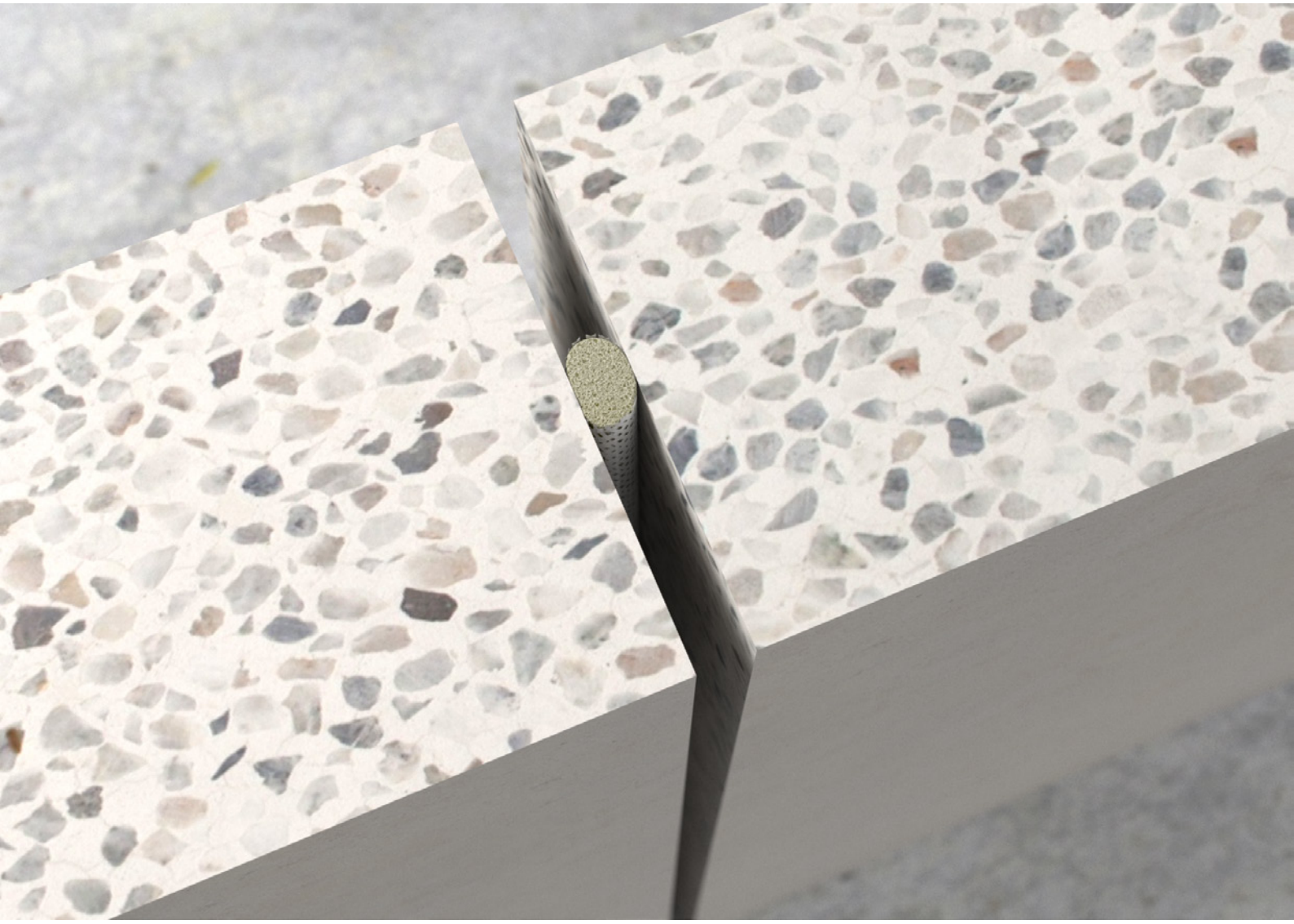
# System FLAMRO® Joint Rope

Joint filling rope for sealing horizontal and vertical linear joints (structural joints as stepped joints and linear butt joints) with or without shear stress between fire-resistant separating rigid walls and floors.

Fire resistance class up to EI 180 as per EN 13501-2 in accordance with ETA-25/1260



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**Installation instructions rev.: 1.1**

# System FLAMRO® Joint Rope

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# System FLAMRO® Joint Rope

## 1. Preliminary remarks

The installation instructions are intended solely for personnel trained in fire protection.

Before starting work, read through these installation instructions completely. Pay particular attention to the following safety instructions.

The authorisation holder assumes no liability for damage caused by failure to comply with these instructions.

Pictorial representations serve as examples only. Installation results may differ in appearance.

Upon request, we will be pleased to provide the relevant legal and technical framework and manufacturer specifications for each individual case.

## 2. Field of application

### Reaction to fire

The FLAMRO® joint rope meets class A1 for reaction to fire in accordance with EN 13501-1.

### Durability and serviceability

The FLAMRO® joint rope meets use category $Y_1$ as per EOTA TR 024 (can be subjected to the conditions of interior rooms without limitations to humidity at temperatures of -20 °C to +80 °C and occasionally to UV).

The test and evaluation methods on which these instructions are based suggest that the system has a service life of at least 25 years. This estimation is not intended to be a warranty of the manufacturer but simply as an aid for selecting an appropriate product suiting the expected economic life of the building.

## 3. Products



**FLAMRO® joint rope**

| diameter of rope | for joint widths of | meters per roll | number of rolls per unit/bag | meters per unit/bag | weight per bag | bags per pallet | approx. weight per pallet | Art. no. |
|---|---|---|---|---|---|---|---|---|
| 20 mm | 12–17 mm | 20 | 5 | 100 | 8 kg | 50 | 440 kg | 0520000008 |
| 30 mm | 17–27 mm | 20 | 5 | 100 | 17 kg | 18 | 335 kg | 0520000009 |
| 40 mm | 27–37 mm | 20 | 2 | 40 | 10.8 kg | 18 | 230 kg | 0520000010 |
| 50 mm | 37–47 mm | 20 | 2 | 40 | 19.5 kg | 18 | 386 kg | 0520000011 |
| 60 mm | 47–55 mm | 10 | 2 | 20 | 14 kg | 18 | 268 kg | 0520000012 |



**BIOFERM-A**
**Fire protection acrylate**
310 ml cartridge
Art. no. 01156011-1



**BIOFERM S**
**Fire protection silicone**
310 ml cartridge
Art. no. 01156001 (grey), 01156002 (white)

### 3.1 Declarations of Performance

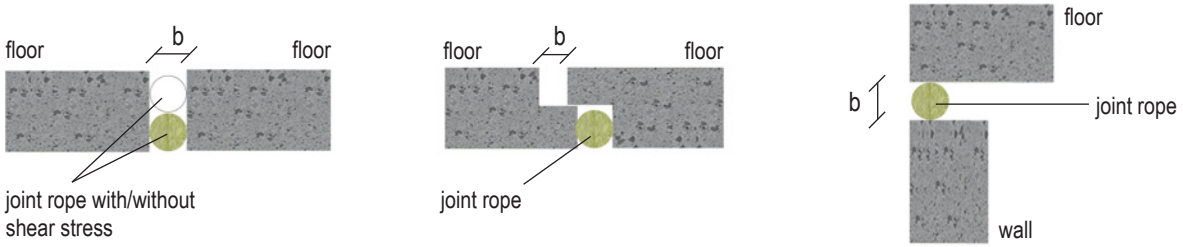
The Declarations of Performance for featured Flamro products are available for download on our website:
https://flamro.com/eu/downloads/

# System FLAMRO® Joint Rope

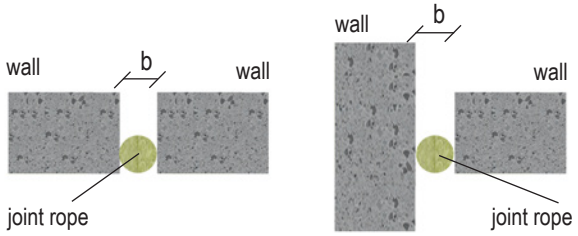
## 4. Design regulations and variants

The joint rope may be installed in solid walls and floors with a thickness of ≥ 150 mm. The maximum permitted joint width is 55 mm.
The maximum lateral stretching capability of the FLAMRO® joint rope is 7.4%.
The joint rope is not intended for load transmission.

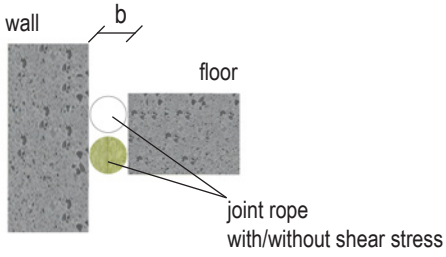
**Application A**




**Application B**




**Application C**




| Application | | Joint width [mm] | Number of layers | Arrangement | Fire resistance class |
|---|---|---|---|---|---|
| **In solid walls and floors ≥ 150 mm with a bulk density of ≥ 700 kg/m³** | | | | | |
| A B | • horizontal joints between floors or between walls and floors | 10–55 | 1 | any arrangement | EI 90-H-X-F-W 10 - 55 |
| | • vertical joints between walls | | | | EI 90-V-X-F-W 10 - 55 |
| | • horizontal joints between floors or between walls and floors | 55 | 1 | any arrangement | EI 120-H-X-F-W 55 |
| | • vertical joints between walls | | | | EI 120-V-X-F-W 55 |
| **In solid walls and floors ≥ 150 mm with a bulk density of ≥ 2400 kg/m³ ± 20%** | | | | | |
| A C | • horizontal joints between floors or between walls and floors | 10–50 | 2 | One layer on each side, minimum clearance 25 mm to the outer edge of the building element | EI 90-H-M 65-F-W 10 - 50 |
| | • horizontal joints between walls and floors | | | | |
| A B | • horizontal joints between floors or between walls and floors | 10–55 | 2 | Layers side by side without clearance, any arrangement within the joint | EI 120-H-X-F-W 10 - 55 |
| | • vertical joints between walls | | | | EI 120-V-X-F-W 10 - 55 |
| A B | • horizontal joints between floors or between walls and floors | 10–27 | 4 | | EI 180-H-X-F-W 10 - 27 |
| | • vertical joints between walls | | | | EI 180-V-X-F-W 10 - 27 |
| | • horizontal joints between floors or between walls and floors | 37–55 | 3 | | EI 180-H-X-F-W 37 - 55 |
| | • vertical joints between walls | | | | EI 180-V-X-F-W 37 - 55 |

# System FLAMRO® Joint Rope

**Fire resistance classes for joints:**

| | |
|---|---|
| **E** | Integrity |
| **I** | Insulation |
| **V** | Vertical structure (wall joint) |
| **H** | Horizontal structure (floor joint) |
| **X** | Movement capacity: no movement (maximum lateral stretching capability 7.4%) |
| **M** | Movement capacity: maximum allowed movement in % |
| **F** | Joint produced on site |
| **W** | Range of joint width in mm |

| **Selection of correct rope size** | | | | | |
|---|---|---|---|---|---|
| **Nominal diameter [mm]** | 20 | 30 | 40 | 50 | 60 |
| **Joint width [mm]** | 12–17 | 17–27 | 27–37 | 37–47 | 47–55 |

## 5. Installation

### 5.1 General safety instructions

The FLAMRO® joint rope contains synthetic mineral fibres. To avoid dust use smooth or serrated knives or scissors for cutting.
Wear appropriate protective clothing-

### 5.2 Installation steps

| | | |
|---|---|---|
| 1. | **Preparation** | • Completely and thoroughly remove polystyrene and foam residue, concrete splatters and other particles.<br>• Clean the joint edges with appropriate tools.<br>• When planning to apply an additional elastic sealant to the joint after installing the FLAMRO® joint rope, use primer beforehand. (Observe the primer manufacturer's information.) |

| | | |
|---|---|---|
| 2. | **Installation** | • Install the FLAMRO® joint rope according to the tables in chapter „4. Design regulations and variants“ on page 4. Observe the necessary number of layers, the required fire rating and additional remarks.<br>• Arrange the joint ropes with overlap. In joints with a single layer arrangement, the ends of adjoining joint ropes must have an overlap of at least 100 mm. In arrangements with multiple layers, adjoining joint ropes must have an overlap of at least 500 mm<br>• In joints with vertical shear stress, joint ropes must be installed with a minimum clearance of 25 mm to the outer edges of the building element.<br>• Optionally apply additional elastic sealant such as BIOFERM-A oder BIOFERM S to seal the joint. Observe the manufacturer's information. |