

MIGUFIRE FRV

TESTED FIRESTOP SYSTEMS (EI 120 / F120) FOR MOVEMENT JOINTS WITH HIGH MOVEMENT
IN SOLID CONSTRUCTION



- **INTUMESCENT JOINT SEALING ELEMENT**
Classified fire resistance EI 120 for the fire-resistant sealing of expansion and movement joints in walls and floors.
- **FOR JOINTS WITH HIGH MOVEMENT**
Suitable for joint widths of 50–70 mm with an additional 20 mm lateral movement capability.
- **INTUMESCENT FIRE BARRIER**
Flaton VPG 12 expands in the event of fire and enhances the thermal insulation performance of the sealing element.
- **FOR SOLID CONSTRUCTION**
For use in fire-resisting building elements with a minimum thickness of 150 mm.

MIGUFIRE FRV is a firestop joint sealing system consisting of a multi-layer sealing element and a specially developed adhesive system. The sealing element comprises mineral foam boards with integrated intumescent fire protection layers and is encapsulated in an aluminium foil. The system is designed for the fire-resistant sealing of expansion and movement joints subject to significant structural movement. Such movements may result from temperature variations, building settlement, seismic activity or structural design requirements. The purpose of the system is to maintain or restore the fire resistance of compartment walls and floors, including the joint area. The joint sealing system is suitable for nominal joint widths of 50 to 70 mm while accommodating additional movement within the joint.

Information on prices and packaging units is available upon request.

MIGUFIRE FRV RANGE

System	Nominal Joint Width [mm]	Expanded Joint Width [mm]	Element Dimensions (L × W × Depth) [mm]	Minimum Wall/Floor Thickness [mm]	Classification
MIGUFIRE FRV 50	50	70	1000 x 60 x 125	150	EI 120-V-M040-F-W 50 EI 120-H-M040-F-W 50
MIGUFIRE FRV 60	60	80	1000 x 70 x 125	150	EI 120-V-M033-F-W 60 EI 120-H-M033-F-W 60
MIGUFIRE FRV 70	70	90	1000 x 80 x 125	150	EI 120-V-M029-F-W 70 EI 120-H-M039-F-W 70

(V = Vertical (joint in wall construction); H = Horizontal (joint in floor construction))

FIRE-RESISTANT SYSTEMS APPROVED FOR INSTALLATION

in solid concrete or masonry walls and reinforced concrete floors (Installation Configurations A and B).

The German fire classifications F90 and F120 correspond to the European classifications EI90 and EI120.

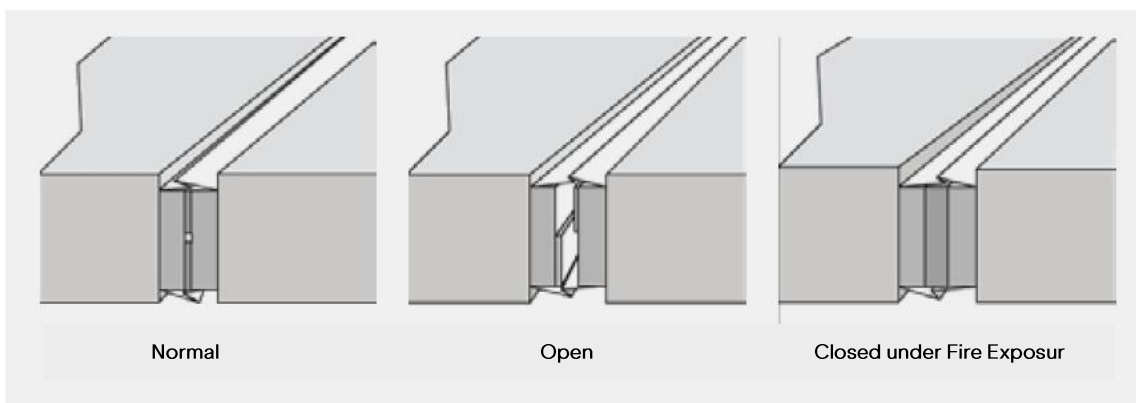
OPERATING PRINCIPLE

The sealing element is encapsulated in aluminium foil featuring expansion folds along its narrow sides. This ensures that the joint remains completely sealed even when subjected to movement.

In the event of fire, the intumescent material **Flaton VPG 12** expands and enhances the insulating performance of the sealing element.

This enables the system to maintain fire protection performance during joint movements of up to **20 mm**.

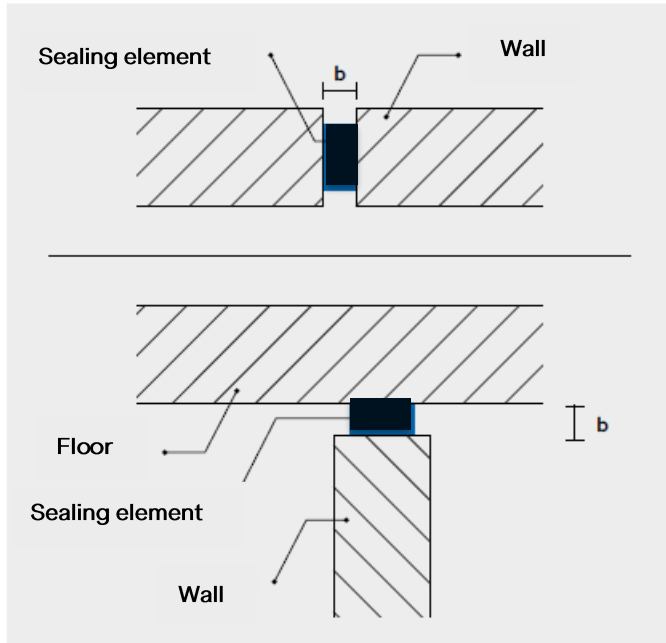
Approved for joint widths from **20 mm to 100 mm** with an additional movement capability of **20 mm**.



INSTALLATION CONFIGURATIONS

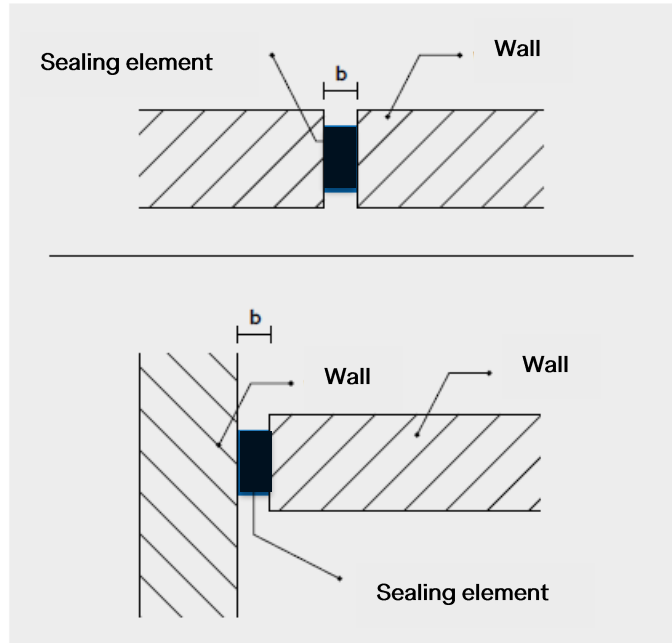
Configuration A:

Horizontal joint in or between floors, or between floors and walls.



Configuration B:

Vertical joint in or between walls.



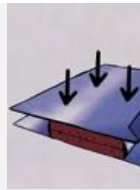
MATERIAL PROPERTIES

Excerpt from the European Technical Assessment (ETA)

- Classified as **Reaction to Fire Class C-s1, d0** according to EN 13501-1.
- Permissible lateral movement capability of the joint sealing system: **20 mm**.
- The joint sealing system is **not intended to transfer structural loads**.
- MIGUFIRE FRV is encapsulated in aluminium foil with expansion folds along the narrow sides.
- In the event of fire, **Flaton VPG 12** expands and enhances the thermal insulation performance.
- The joint sealing system may be used to seal linear joints in conjunction with the following fire-resisting building elements:
 - Solid concrete, reinforced concrete or masonry walls with a minimum density of **2,400 kg/m³ ±20%**
 - Solid concrete or reinforced concrete floors with a minimum density of **2,400 kg/m³ ±20%**
- The supporting construction shall achieve the required fire resistance classification according to EN 13501-2.
- The minimum thickness of the supporting construction shall be **150 mm**.
- The provisions of the **European Technical Assessment ETA-13/0270** shall be observed.
- The complete ETA-13/0270 is available from MIGUA upon request.

INSTALLATION INSTRUCTIONS

Please read carefully before installation.

				
Preparation	Apply Adhesive	Prepare the Element	Pre-compression	Installation
Remove any protruding formwork fins, concrete or mortar splashes, foam residues, construction debris and any other contaminants from the joint.	Apply a suitable adhesive evenly to the joint faces using a spatula or brush.	Apply adhesive to the end face of the sealing element. Do not allow the centrally positioned Flaton VPG fire protection layer to come into contact with the adhesive	Place the firestop sealing element between two insertion plates and pre-compress it to approximately 10 mm narrower than the joint width.	Insert the sealing element to the required installation depth using the insertion plates. Install adjacent elements tightly butt-jointed. Remove and clean the insertion plates afterwards

A suitable adhesive for this product is available from MIGUA.

IMPORTANT: If an additional sealant or joint cover system is to be installed, the joint edges shall be prepared in accordance with the sealant manufacturer's installation instructions. The primer applied for the sealant must **not** come into contact with the adhesive. The folds of the aluminium foil must **not** be bonded.