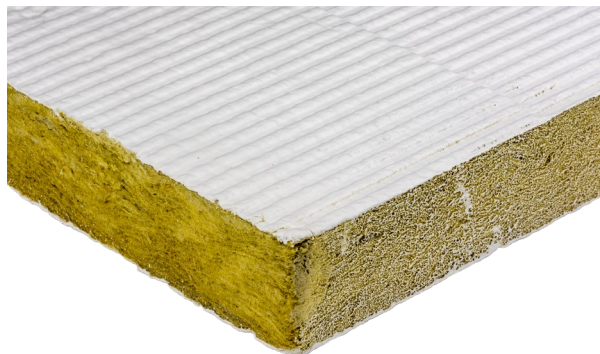


## FPC Panel

Mineral wool plate with fire protection coating

*Technical Data Sheet*

02/2024



### Material

The FPC Panel consists of a high-density mineral wool core coated with Knauf FPC Coating fire protection coating. The coating provides additional protection against the ingress of hot gases, while reducing the temperature rise on the side not exposed to fire, as well as limiting heat transfer through utility crossings.

The FPC Panel plate is available with one-sided or double-sided fireproof coating (depending on the installation conditions and required fire resistance).

### Storage

Store in a dry place on wooden pallets in unopened original packaging. Storage temperature from +5 °C to +30 °C.

### Quality assurance

According to the requirements of norm EAD 350454-00-1104, Knauf FPC Panel has undergone a European Technical Assessment ETA 23/0973; constant control of the production process is ensured. The product is marked with the CE mark.

## Application

FPM Mortar fire protection mortar is designed for sealing all types of structures and utility crossings to provide a highly impermeable seal around utility crossings and opening edges. It is classified for all types of structures – lightweight partitions, solid walls and coverings.

FPM Mortar is designed for sealing utility crossings: cables, cable bundles, cable ladders and troughs, steel pipes, copper pipes, multi-layer pipes, combustible pipes PVC, PE, ABS, PP, PEX pipe-in-pipe.

The material preserves the sound insulation parameters of walls and ceilings.

## Features and benefits

- Air, smoke and gas tight, tested at 600 Pa
- Designed for large openings 1200 x 2400 mm or unlimited length if the width does not exceed 800 mm
- Remains flexible
- High sound insulation
- Low emissions – environmentally and user friendly
- Classified for all types of structures and utility crossings
- Service life 25 years
- Unlimited shelf life
- For indoor work

In the heat, the mortar increases in volume by about 1% due to hydraulic action during its hardening, which forms an impermeable seal.

The fire protection mortar, laid without reinforcement, also provides load absorption in the coverings, if it is embedded in a thickness of not less than 100 mm, after a hardening time of 28 days.

FPM Mortar provides fire containment and smoke tightness for up to 4 hours.  
For indoor work.

## Application

FPC Panel stone wool plate with fire protection coating is designed to prevent the spread of smoke and fire through large openings in fireproof walls and coverings in places where engineering utilities are established.

It also provides the acoustic parameters of fireproof walls and coverings. The plate is available with one-sided or double-sided fireproof coating, depending on the installation conditions and required fire resistance. It is classified for all types of structures – lightweight partitions, solid walls and coverings, solid wood CLT wall and covering panels.

FPC Panels are designed for sealing utility crossings: cables, cable bundles, cable protection tubes, cable ladders and troughs, steel pipes, copper pipes, multi-layer pipes, combustible pipes PVC, PE, ABS, PP, PEX pipe-in-pipe. For indoor work.

**Note**

FPC Panel plate is designed for all types of derived combustible pipes:

- PVC pipes, including PVC-U, PVC-C and others, if they comply with EN 1329-1, EN 1452-2, EN 1453-1 or EN 1566-1,
- PP pipes, including PP-MV, PP-H, PP-R and others, if they comply with EN 1451-1 or DIN 8077/8078,
- PE pipes, including PE-LD, PE-MD, PE-HD, PE-X and others, if they comply with EN 1519-1, EN 12201-2 or EN 12666-1, ABS according to EN 1455-1 and for pipes made of SAN+PVC according to EN 1565-1.

## Other instructions

This technical sheet defines the scope of use of the material and the recommended work to be carried out, but it cannot replace the skill of the contractor. In addition to these recommendations, the work must be carried out in accordance with the requirements of the construction work. The manufacturer guarantees the quality of the product but has no influence over how and under what conditions it is used. If in doubt, a trial application should be carried out. This technical data sheet supersedes previous editions of technical sheets.

### Occupational safety and waste collection

Waste identification class: 170604 (see material safety data sheet).

## Processing

Openings in walls and coverings must be dry, clean, and free of dust. At the point of installation, the FPC Panel should be used in conjunction with Knauf FPA Acrylic to seal the plate around utilities and surrounding structures. Knauf Firewrap fire protection tape must be used for combustible pipes and pipes with combustible insulation.

Processing is to be carried out in accordance with ETA 23/0973 as well as the installation instructions Knauf FPC Panel E502e.lv-A1.

### Temperature/climate

The air and base temperatures during processing and curing must be between +5 °C and +50 °C.

## Technical data

Designation	Unit/Norm	Value / Size
Reaction to fire class	LVS EN 13501-1	D-s1, d0
Fire resistance	LVS EN 13501-2	ETA 23/0973
Density	kg/m <sup>3</sup>	1.50–1.70
Air permeability	EN 1026:2016	air, smoke and gas tight
Flexibility	EN ISO 9046	12.5%
Resistance	EAD 350454-00-1104, Clause 2.2.9	Y1
Operating time	years	≥ 25
Airborne sound insulation*	EN 10140-1,2,4,5/ EN ISO 717-1	Rw(C;Ctr) = 52 (-4;-7) dB
Thermal conductivity (in 20 mm thickness)	W/m·K	0.038
Temperature resistance	°C	-30 to +80
Application temperature	°C	+5 to +50
Colour	-	white

\* Sound insulation rated – FPC Panel 2x 50 mm and 2x 60 mm with single and double-sided fireproof coating

## Sustainability and environment

Criterion	Class	Value
French VOC Regulation	A+	fulfils
German AgBB (2021)/ABG (2022)	-	fulfils
Indoor Air Comfort GOLD®	-	fulfils
BREEAM-International	-	fulfils
LEED-EU (v4.1) BETA	-	fulfils

## Delivery programme

Title	Thickness ml	Width mm	Length mm	Packaging unit	Art. Nr.	EAN code
Knauf FPC Panel, with double-sided coating, grooved	60	600	1200	72 pcs per pallet	00651123	5902367204495
Knauf FPC Panel, with double-sided coating, grooved*	50			80 pcs per pallet	00651130	5902367204624
Knauf FPC Panel, with single-sided coating, grooved	50			80 pcs per pallet	00651132	5902367204617
Knauf FPC Panel, with double-sided coating, smooth*	60			72 pcs per pallet	00651133	4750614007914
Knauf FPC Panel, with single-sided coating, smooth*	50			80 pcs per pallet	00651044	5902367204594

\* Available upon request

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