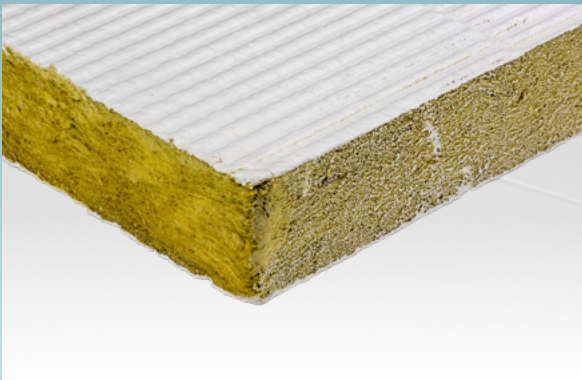


KNAUF FPC PANEL

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Knauf FPC Panel has been designed to maintain the fire resistance of separating walls and floors where they are breached by single or multiple building services. The panel consists of a stone wool core, sealed with Knauf FPC Coating on 1 or both faces.

Selection of the panel coated on 1 or both faces is determined by installation considerations and fire resistance requirements. When installed on site, Knauf FPC Panel should be used with Knauf FPA Acrylic for sealing around service penetrations and the adjacent separating construction.

Method of delivery

- › Knauf FPC PANEL 50mm 1-S Ribbed, article no. 651132
- › Knauf FPC PANEL 50mm 2-S Ribbed, article no. 651130
- › Knauf FPC PANEL 60mm 2-S Ribbed, article no. 651123

Installation Instructions

1. Before installing Knauf FPC Panel ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Knauf FPC Coating and Knauf FPA Acrylic are water based, so in cases where corrosion protection is a problem, some metals may require a barrier between the seal and the surface prior to this installation.
3. Select the type and number of panels to meet the required fire classification using the drawings on this document.
4. When fitting panels into drywalls the coated side of the panel should be flush with the surface of the wall on both sides. In seals wider than 2400mm, uninterrupted separating studs will be required at 2400mm centers or less.
5. When fitting double layer 60mm thick panels in masonry or concrete constructions, the panels should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the panels.
6. When fitting single layer panels in masonry or concrete constructions, the panel can be positioned to either side of the construction or anywhere in between.
7. When installing Knauf FPC Panel in hollow floor slabs or boards, fire seals specified as single layer panels should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
8. Cut the required panel(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the panels can be sealed with Knauf FPC Coating or Knauf FPA Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
9. All joints, gaps or imperfections in the installed seal must be filled with Knauf FPA Acrylic on both sides.
10. Knauf FPC Panel can be over-painted with most emulsion or alkyd (gloss) paints.

Product description

Knauf FPC Panel consists of a high density stone wool core, over-coated with Knauf FPC. The top coating provides additional protection by significantly reducing the permeability of the stone wool core and prevents the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

Storage

May be stored for a long period of time. To be stored in temperatures between 5 °C and 30 °C.

Scope of application

Knauf FPC Panel is designed to prevent the spread of fire and smoke through openings in fire rated walls and floors where openings are formed to allow the installation of multiple building services. Knauf FPC Panel will also maintain the acoustic design performance in fire rated walls and floors.

Knauf FPC Panel is available with top coating on one or two sides, selected on the basis of installation considerations and fire resistance. On site, Knauf FPC Panel must be used together with Knauf FPA Acrylic for sealing around building services and the surrounding construction.

Properties

- Classified for all types of constructions with or without building service penetrations
- Simple and very quick to install
- Permanently flexible - will accommodate movements during fire and smaller movements in the construction it has been fitted within
- Halogen free with added fungicides
- Fire resistance up to EI240
- ETA 23/0973 and ETA 23/0974
- EAD 350454-00-1104 and EAD 350141-00-1106

Emission data (indoor air quality)

Compound	Emission rate after 4 weeks
TVOC	0.20 mg/m ² h
Formaldehyde	n.d.
Ammonia	n.d.
Carcinogenic	n.d.

n.d. means not detected

Sound insulation

Description	Sound reduction
Single 50 or 60mm Knauf FPC Panel 2-S as linear seal	Rw 55 dB
Single 50 or 60mm Knauf FPC Panel 2-S as large seal	Rw 29 dB
Double 50 or 60mm Knauf FPC Panel 1-S or 2-S as large seal	Rw 52 dB
50 or 60mm Knauf FPC Panel 1-S or 2-S with 50mm cavity, large seal	Rw 53 dB

Knauf FPC Panel has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010.

Safety

Please observe the EC Safety Data Sheet.