

PROTECTA® FR BOARD

General Product Description

Protecta® FR Board 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. Protecta® FR Board will also maintain the acoustic design performance in fire rated walls and floors. Protecta® FR Board consists of a high density stone wool core, over-coated with Protecta® FR Coating. 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. Protecta® FR Board is available with top coating on one or two sides, selected on the basis of installation considerations and fire resistance. On site, Protecta® FR Board must be used together with Protecta® FR Acrylic for sealing around building services and the surrounding construction.

Properties & Precautions

- Classified for all types of constructions with or without building service penetrations
- · Simple and very quick to install
- Easy to retrofit additional building services after installation
- Permanently flexible will accommodate movements during fire and smaller movements in the construction it has been fitted within
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastic and most non-porous surfaces
- May be used in unlimited lengths in walls with heights up to 1200 mm and in floors with widths up to 120 mm.
- May be installed in gypsum walls with or without framing around the opening.
- · Halogen free with added fungicides
- Once fully cured, the board resists UV, humidity and frost
- Protecta® FR Board can be supplied with a smooth surface
- Precautions are required to be taken to prevent a person stepping onto a blank horizontal penetration seal

Resistance to Fire

Construction	Description	Classification
Flexible walls comprise gypsum, masonry, aerated concrete or concrete	Unlimited width by 1200mm high blank seal with double 50mm Protecta FR Board 1-S	-/120/120
Rigid walls comprise masonry, aerated concrete or concrete, within walls or between the head of walls and the soffit of floor slabs	Unlimited width by 1200mm high blank seal with single 60mm Protecta FR Board 2-S	-/240/90
	Unlimited width by 1200mm high blank seal with double 60mm Protecta FR Board 2-S	-/240/180
	Up to 1200 mm by 1200 mm blank seal with double 60mm Protecta FR Board 2-S	-/240/240
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls	Up to 1200 mm by 600 mm blank seal with single 60mm Protecta FR Board 2-S	-/240/120
	Up to 1200 mm by 600 mm blank seal with double 60mm Protecta FR Board 2-S	-/240/180
	Up to 2400 mm by 1200 mm blank seal with single 60mm Protecta FR Board 2-S	-/120/90
	Unlimited length by 120mm wide linear seal with single 60mm Protecta FR Board 2-S	-/240/120

Tested to AS1530.4:2014 when installed to accordance with Installation Instructions.



Sound Insulation

Description	Sound reduction
Single 50mm Protecta FR Board 2-S	55 dB
All other configurations	> 55 dB

FR Board has been tested at Sound Research Laboratories Limited according to BS EN ISO 140-3:1995. Testing in accordance with ISO 10140-2 Airborne Sound Insulation of Building Elements for acoustic performance.

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	

Protecta® FR Board complies with the requirements of BREEAM according to the M1 Protocol for Chemical and Sensory Testing of Building Materials as published by RTS version 15.12.2004 which is the best possible environmental and indoor hygiene health protection mark for coatings. Tested by Eurofins Product Testing, report number 392-2014-00000407B.

Technical Data

Ready for use, pre-coated boards	
Board: 160 kg/m ³ (150 – 170 kg/m ³)	
Coating: 1.3 – 1.4 kg/ltr	
Y ₁ - Intended for use at temperatures below 0°C wit	
exposure to UV and humidity but no exposure to	
rain. Includes lower classes Y ₂ , Z ₁ and Z ₂ .	
None	
Max. 75 minutes (sealant)	
Max. 25 minutes (sealant)	
3 to 5 days depending on thickness and temperature	
Medium, 12.5%	
0.038 W/mK	
May be stored for a long period of time. To be	
stored in temperatures between 5°C and 30°C	
Suitable for use with most materials, but should not	
be used In direct contact with bituminous materials	
If the boards are to be used in permanently humid	
areas Protecta® FR Coating should be applied over	
the sealant	
-30°C to +80°C (when hardened)	
+5°C to +50°C	
White surface, green core	
FR Acrylic: NCS 1202 – Y26R, RAL 9002	
FR Board 50x600x1200 mm: 80 pcs per pallet	
FR Board 60x600x1200mm: 72 pcs per pallet	