



PRODUCT DESCRIPTION

iPASSIVE FR Board is specifically designed for sealing around service penetrations in walls and floors and preventing the spread of fire and smoke through these penetrations. iPASSIVE FR Board will also maintain the acoustic performance in fire rated walls and floors

iPASSIVE FR Board consists of a high-density stone wool core over-coated with iPASSIVE FR Coating, an ablative fire-resistant coating and is available coated on one or 2 sides. 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

iPASSIVE FR Board must be used together with iPASSIVE FR Acrylic for sealing around building services and the surrounding construction.

FEATURES

- Fire rated up to 4hrs
- Classified for all types of constructions with or without building service penetrations
- Available in 50mm & 60mm thicknesses, 1 or 2 sided
- Permanently flexible – will accommodate movements during fire & smaller movements in the construction
- Suitable for most surfaces including concrete, brick, masonry, steel, wood, gypsum, glass, plastic and most non-porous surfaces
- Halogen free with added fungicides
- Resists UV, humidity & frost once fully cured
- Unlimited lengths in wall with heights up to 1200mm & floors with widths up to 120mm
- Easy to retrofit additional building services after installation
- Classified for most construction types with or without building service penetrations

TECHNICAL INFORMATION

Condition	Ready for use, pre-coated boards
Density	Board: 160 kg/m ³ (150 – 170 kg/m ³) Coating: 1.3 – 1.4 kg/ltr
Durability	Y1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y2, Z1 and Z2.
Flash point	None
Non-sticky	Max. 75 minutes (sealant)
Film forming	Max. 25 minutes (sealant)
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	Medium, 12.5%
Thermal conduct.	0.038 W/mK
Storage	May be stored for a long period of time. To be stored in temperatures between 5°C and 30°C
Compatibility	Suitable for use with most materials, but should not be used in direct contact with bituminous materials
Limitations	If the boards are to be used in permanently humid areas iPASSIVE FR Coating should be applied over the sealant
Temperature range	-30°C to +80°C (when hardened)
Installation temp.	+5°C to +50°C
Colour	White surface, green core
Packaging	FR Acrylic: NCS 1202 – Y26R, RAL 9002 FR Board 50x600x1200 mm: 80 pcs per pallet FR Board 60x600x1200mm: 72 pcs per pallet

SOUND INSULATION

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

iPASSIVE FR Board has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010.

EMISSION INFORMATION

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

n.d. means not detected

iPASSIVE 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.

SPECIAL CONSIDERATIONS

- Flexible walls may be reduced to a minimum thickness of 75mm with a single layer 13mm plasterboard lining, for a corresponding (reduced) FRR. Apertures are not required to be lined.
- Rigid walls may be reduced to a minimum thickness of 75mm for a corresponding (reduced) FRR.
- Rigid floors may be reduced to a minimum thickness of 60mm for a corresponding (reduced) FRR.

TESTED STANDARD

Tested and assessed in accordance with AS 1530.4 and AS 4072.1.

FIRE RESISTANCE RATINGS - BLANK SEALS

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

SERVICE PENETRATIONS

Services	Seal	Details	FRR		
			Rigid Floor min 150mm	Flexible Wall min 100mm	Rigid Wall min 150mm
Cables, single ≤ Ø21mm or bundled, with or without trays (with trays for floors)	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm	-/120/120	-/120/120	-/240/180
Cables, single ≤ Ø21mm or bundled ≤ Ø 100mm	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm	-/120/120	-/60/60	-/180/120
Cables, single ≤ Ø80mm or bundled (on trays)	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm	-/120/60	-/60/60	-/180/60
Steel cable trays & ladders	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm	-/120/60	-/60/60	-/180/60
PVC conduit ≤ Ø 16mm	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm	-/120/90	-/60/60	-/180/180
Mild/Stainless steel pipe Ø40- Ø219mm/1.5-14.2mm wall, 20-30mm Stone wool insulation 80kg/m ³	60mm 2-S, both sides	max aperture(walls) unlimited width x 1200mm	-/180/60	-	-/240/90
Mild/Stainless steel pipe Ø40- Ø324mm/1-14.2mm wall, 30-80mm Stone wool insulation 80kg/m ³	60mm 2-S, both sides	max aperture(walls) unlimited width x 1200mm	-	-/120/120	-/240/180
Copper pipe up to Ø54mm / 0.9 - 14.2 wall 20mm Stone wool insulation 80kg/m ³	60mm 2-S, both sides	max aperture(walls) unlimited width x 1200mm	-/240/60	-120/120	-/240/120
Alupex pipe up to Ø75mm with continuous elastomeric foam insulation	60mm 2-S, both sides	max aperure(floors) 2400mm x 1200mm & iPASSIVE FR Wrap	-/120/120	-/60/60	-/120/90

DISCLAIMER

As a part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As iPASSIVE has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.