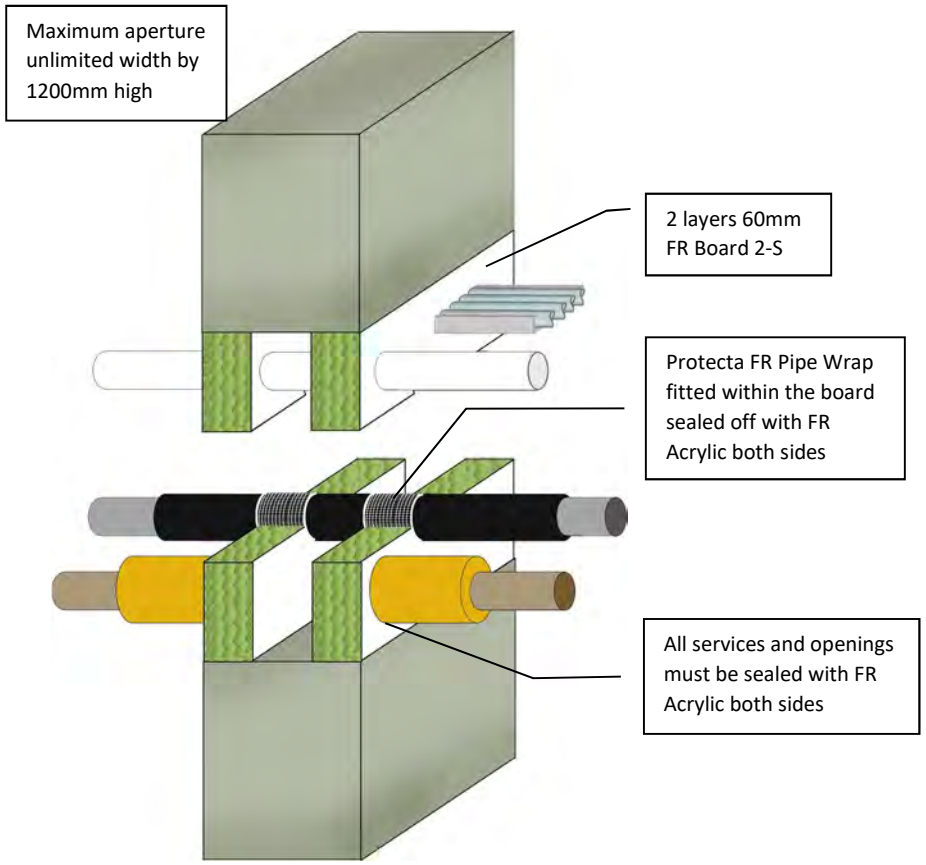
MIXED SERVICE APERTURE

Fire Classification EI 120

Sound Reduction 52 dB

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Protecta® FR Coating and Protecta® FR 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. The boards 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 boards.
4. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 100mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

ETA 21/0047

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Services

1. Cables, with or without cable trays
2. Conduits, with or without cable trays
3. Steel pipes
4. Copper pipes
5. Alupex pipes
6. Plastic pipes
7. Composite pipes
8. Ventilation ducts

For full specification see pages 2 - 4.

Indoor air comfort test results

- French VOC Regulation – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

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 Polyseam has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, is 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.

For all technical details on the products specified please refer to the technical data sheets that can be found on http://www.protecta.eu

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Scale:	Drawn by & date:
NTS	K.B. 18/9/21