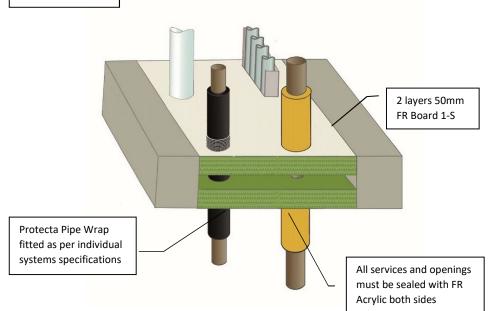
MIXED SERVICE APERTURE - FR BOARD - CONCRETE FLOOR

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.
- 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.

Maximum aperture 2400mm width by 1200mm high



Minimum separations and limitations

An aperture can include several services, and they may also be different. Services within the system Protecta® FR Board seal do not require a minimum separation, except pipes where pipe insulation penetrates the seal and plastic pipe penetrations which should be a minimum of 30 mm from other services in the aperture. Services should be a minimum of 25mm from seal edges. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area. The minimum permitted separation between adjacent apertures is 200mm.





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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For Fire Classifications refer to relevant systems in this website

Products Protecta FR Board

Protecta FR Acrylic

Protecta FR Pipe Wrap

Construction Minimum floor thickness of 100

mm and comprise concrete, aerated concrete or masonry,

with a density of ≥ 650 kg/m³

Services

- 1. Cables ≤ Ø80mm single or bundled, wires 185mm² and steel or PVC conduits ≤ \emptyset 16mm, with or without cable trays
- 2. Steel pipes ≤ Ø22mm without insulation
- 3. Steel pipes ≤ Ø165mm with 13 32mm thick continuous foam insulation and 2 layers wrap
- 4. Steel pipes ≤ Ø324mm with 32 50mm thick continuous foam insulation and 3 layers wrap
- 5. Steel pipes ≤ Ø324mm with 20-80mm thick continuous stone wool insulation
- 6. Steel pipes $\leq \emptyset 219$ mm with ≥ 20 mm thick interrupted stone wool insulation
- 7. Copper pipes ≤ Ø6mm without insulation
- 8. Copper pipes ≤ Ø54mm with 9 25mm thick continuous foam insulation and 2 layers wrap
- 9. Copper pipes $\leq \emptyset 54$ mm with ≥ 20 mm thick interrupted stone wool insulation
- 10. Alupex pipes $\leq \emptyset$ 20mm without insulation
- 11. Alupex pipes ≤ Ø75mm with 9 25mm thick continuous foam insulation and 2 layers wrap
- 12. Alupex pipes $\leq \emptyset75$ mm with ≥ 20 mm thick interrupted stone wool insulation
- 13.PEX pipe-in-pipes ≤ Ø25mm
- 14. Plastic pipes ≤ Ø32mm without pipe wrap
- 15. Plastic pipes $\leq \emptyset$ 40mm with 1 layer of wrap
- 16. Plastic pipes Ø41 Ø110mm with 2 layers of pipe wrap
- 17. Plastic pipes Ø111 Ø125mm with 3 layers of pipe wrap
- 18. Plastic pipes Ø126 Ø160mm with 4 layers of pipe wrap

Drawn by & date: Scale: NTS K.B. 16/1/21