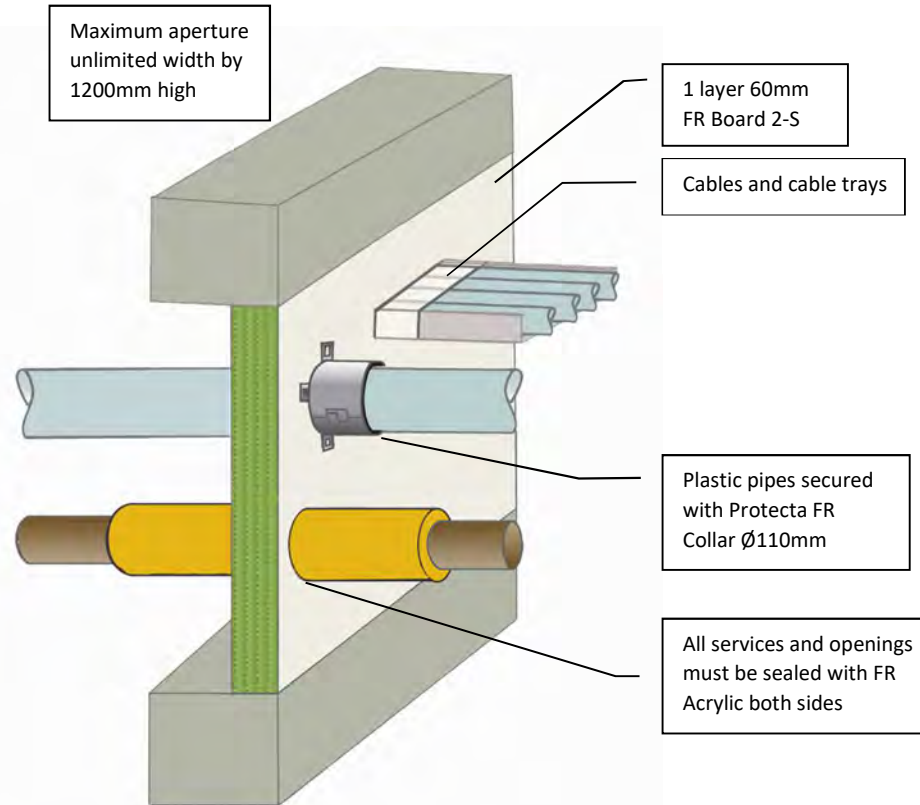


## MIXED SERVICE APERTURE - FR BOARD - CONCRETE WALL

### 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 Acrylic is 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 board can be positioned to either side of the construction or anywhere in between.
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. Cables  $\geq \varnothing 22\text{mm}$  and cable trays must be coated 150mm each side with 300 $\mu$  WFT Protecta Service Coat FR-1.
7. Plastic pipes must be secured with Protecta® FR Collars  $\varnothing 110\text{mm}$  fixed with penetrating threaded rod and nuts on both sides.
8. 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. 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.

For Fire Classifications refer to relevant systems in this website

<b>Products</b>	Protecta FR Board Protecta FR Acrylic Protecta FR Collar
<b>Construction</b>	Minimum wall thickness of 100mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

### Services

1. Cables  $\leq \varnothing 21\text{mm}$  without coating
2. Cables  $\leq \varnothing 80\text{mm}$  single or bundled, with or without perforated cable trays and ladders with coating
3. Steel pipes  $\leq \varnothing 324\text{mm}$  with 20-30mm thick continuous stone wool insulation
4. Steel pipes  $\leq \varnothing 40\text{mm}$  with  $\geq 20\text{mm}$  thick interrupted stone wool insulation
5. Steel pipes  $\leq \varnothing 219\text{mm}$  with  $\geq 30\text{mm}$  thick interrupted stone wool insulation
6. Copper pipes  $\leq \varnothing 54\text{mm}$  with  $\geq 20\text{mm}$  thick interrupted stone wool insulation
7. Alupex pipes  $\leq \varnothing 75\text{mm}$  with  $\geq 30\text{mm}$  thick interrupted stone wool insulation
8. PVC-U and PVC-C pipes  $\leq \varnothing 110\text{mm}$



ETA 13/0673



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:  
**NTS**

Drawn by & date:  
K.B. 29/7/21