

## Protecta FR Board - Concrete Wall min 75mm Cable Trays

Optional Pattress Fit

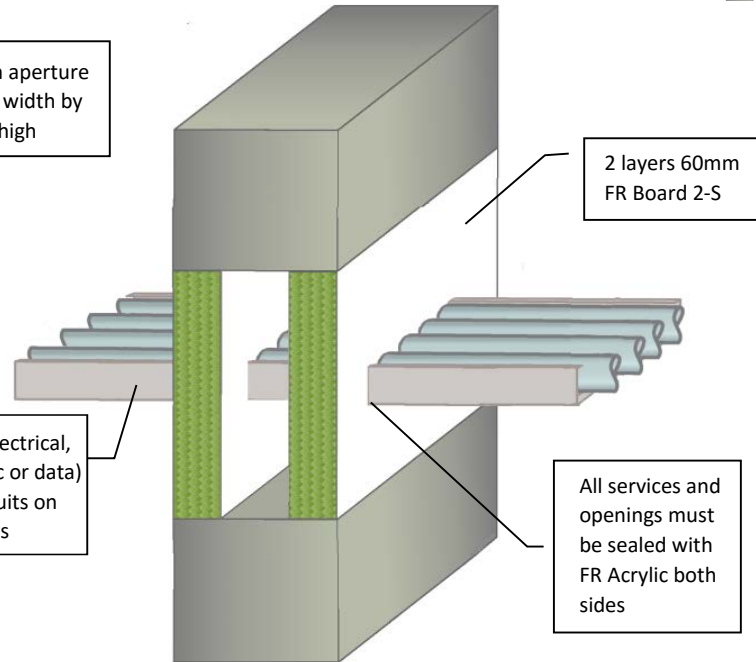


### Installation Instructions

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. 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.
3. 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 Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. Boards must be friction fitted or otherwise firmly supported. Then all joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Cable trays may be perforated or non-perforated. Cables and conduits on trays may be single or bundled according to attached FRR limitations.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.

Maximum aperture unlimited width by 1200mm high

Cables (electrical, fibre optic or data) and conduits on cable trays



2 layers 60mm  
FR Board 2-S

All services and openings must be sealed with FR Acrylic both sides

Smoke-safe (<0.1m<sup>3</sup>/h smoke leakage at 200Pa)

### 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.

Pattress Fitting permitted Max FRR -/120/120 Max aperture 1100 x 1100mm See Warringtonfire FAS200262 page9



warringtonfire

ETA 21/0047 FAS 2000262 AS1530.4-2014 AS4072.1-2005

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# Protecta®

System/FPA Register ID# FC175

<b>Products</b>	Protecta FR Board Protecta FR Acrylic
<b>Application</b>	Fire stopping of cables / conduits on cable trays in rigid walls Minimum wall thickness of 75mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
<b>Construction</b>	

### Fire & Sound classification

In 150mm wall with 2 x 60mm FR Boards:

Single cables up to 21mm FRR -/240/180

PVC conduits up to 16mm FRR -/180/180

Cables up to 21mm diam in tied bundles max 100mm diam FRR -/180/120

Cables over 21mm diam, single or bundles max 80mm diam FRR -/180/60

In 100mm wall with 2 x 50mm FR Boards:

Cables up to 80mm diam single or bundled and on trays FRR -/60/60

Steel or Plastic conduits up to 16mm FRR -/60/60

Copper conduits up to 16mm FRR -/60/45

Unsheathed wires up to 24mm FRR -/60/30

In 75mm wall with 2 x 50mm FR Boards:

Cables up to 80mm diam single or bundled and on trays FRR -/60/30

Steel or Plastic conduits up to 16mm FRR -/60/60

Copper conduits up to 16mm FRR -/60/30

Unsheathed wires up to 24mm FRR -/60/30

Sound reduction (seal only) STC 55

Sheet size: **A4**  
Drawn date & no: 20/4/21

Scale: **NTS**  
Drawn by: K.B