Protecta FR Board - Concrete Floor 150mm Cables and Cable Trays

System/FPA Register ID# FC182

Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of cables, wires and conduits inc cable trays in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3.

Fire & Sound classification

Cables ≤ Ø21mm, single, bundled (up to 100mm diam) or on trays   FRR -/120/120

Cables ≤ Ø80mm, single, bundled or on trays
FRR -/120/60

PVC Conduits ≤ Ø16mm   FRR -/120/90

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

Sound reduction (seal only)   STC 64

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 FR Boards must be positioned top and bottom with a 30mm air gap in between.

3. Cables may be single, bundled or on trays.

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 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.

7. Protecta FR Board is not load-bearing. Take appropriate health and safety measures.

Maximum aperture 2400mm x 1200mm

All services and openings sealed with FR Acrylic both sides

FR Board 60mm 2-S top and bottom with 30mm air gap

Cables, wires and PVC conduits with or without cable trays
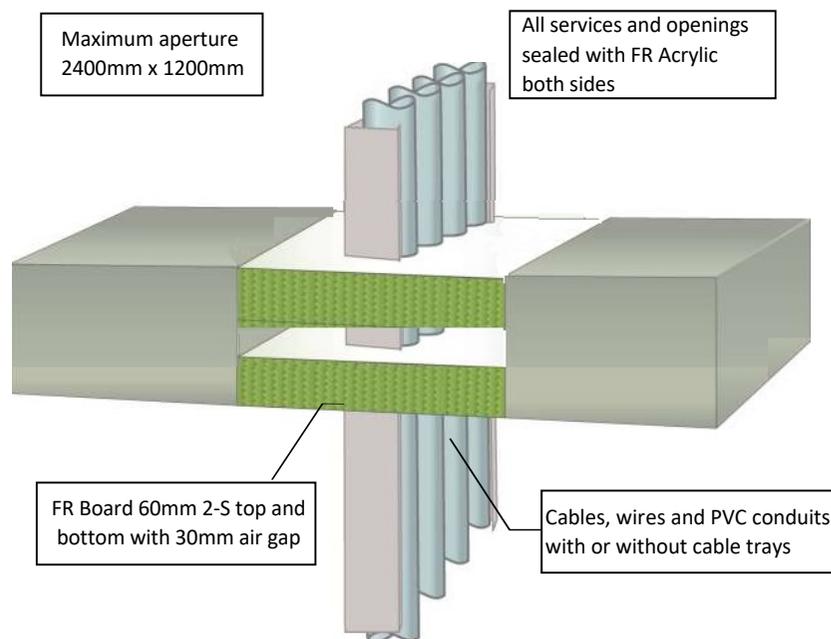
Minimum separations and limitations

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.

Protecta®

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Permitted Aperture Sizes
Where standard aperture sizes of 1200mm by 2400mm are stated, the following additional sizes are automatically permitted:
1100mm x 2900mm   1000mm x 4000mm
900mm x 7000mm   800mm x unlimited

Sheet size: **A4**	Drawn date & no: 19/8/21
Scale: **NTS**	Drawn by: K.B