FIRESTOP CENTRE

INNOVATIVE FIRESTOP SOLUTIONS

Authorised New Zealand Distributor
Ph (09) 483 4000 www.firestopcentre.co.nz

Protecta EX Mortar
Cables in 100mm Concrete Floor or Wall

warringtonfire

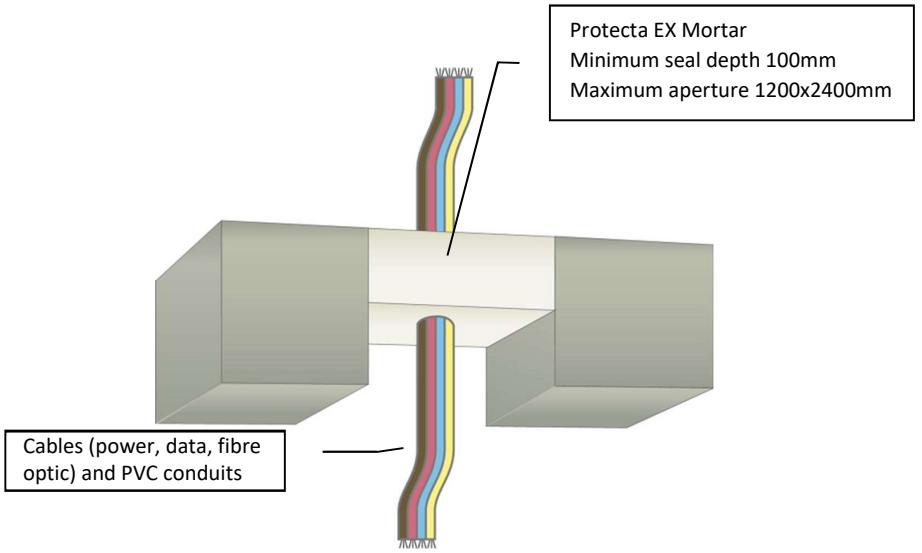
FAS 210027 Pages 38, 101
AS1530.4-2014 AS4072.1-2005

System/FPA Register ID# FC337

Products	Protecta EX Mortar
Application	Fire stopping of cables and conduits in rigid floors or walls
Construction	Minimum floor or wall thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
4. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. Pour clean water into a suitable mixing vessel and pour enough mortar to obtain the required consistency. Mix well to avoid lumps. Always add the mortar to the water, do not reverse this mixing process.
6. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.



Fire & Sound classification

Cables ≤ Ø21mm, single	FRR -/180/90
Cables ≤ Ø21mm in tied bundles ≤ Ø100mm and PVC conduits ≤ Ø16mm	FRR -/180/180
Cables ≤ Ø50mm, single or bundle (NOTE: In 150mm floors and 150mm EX Mortar FRR increases to FRR -/240/90)	FRR -/180/60
Cables ≤ Ø80mm, single or bundle	FRR -/120/60
Non-sheathed cables/wires ≤ Ø17mm	FRR -/180/90
Sound reduction (seal only)	STC 64

Loadbearing Properties: NOTE following for Health and Safety requirements -

Soft body impact, serviceability 500Nm. Soft body impact, safety in use 700Nm. Hard body impact serviceability 6Nm. Hard body impact, safety in use 10Nm. Concentrated load to 15kN on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

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.

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**
800mm x infinite length

Protecta®

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