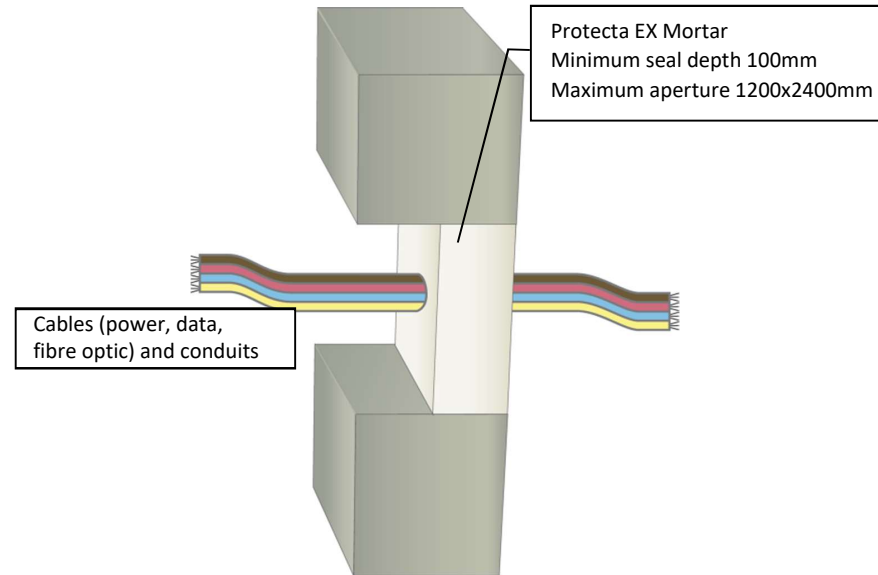


## Protecta EX Mortar - Cables in Concrete Wall

### 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.



### 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 all technical details on the products specified please refer to the technical data sheets that can be found on [www.firestopcentre.co.nz](http://www.firestopcentre.co.nz)

Signed and approved:

System/FPA Register ID# FC197

<b>Products</b>	Protecta EX Mortar
<b>Application</b>	Fire stopping of cables and conduits in rigid walls.
<b>Construction</b>	Minimum wall thickness of 150mm and comprise aerated concrete or concrete with a minimum density of 650kg/m <sup>3</sup>

### Fire & Sound classification

Cables ≤ Ø80mm, single or bundle	FRR -/240/60
Cables ≤ Ø21mm in tied bundles ≤ Ø100mm	FRR -/120/120
PVC conduits ≤ Ø16mm	FRR -/240/240
Steel conduits ≤ Ø16mm	FRR -/180/60
Copper conduits ≤ Ø16mm	FRR -/180/30
Non-sheathed cables/wires ≤ Ø24mm	FRR -/120/60

Sound reduction (seal only) STC 64



# Protecta®

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