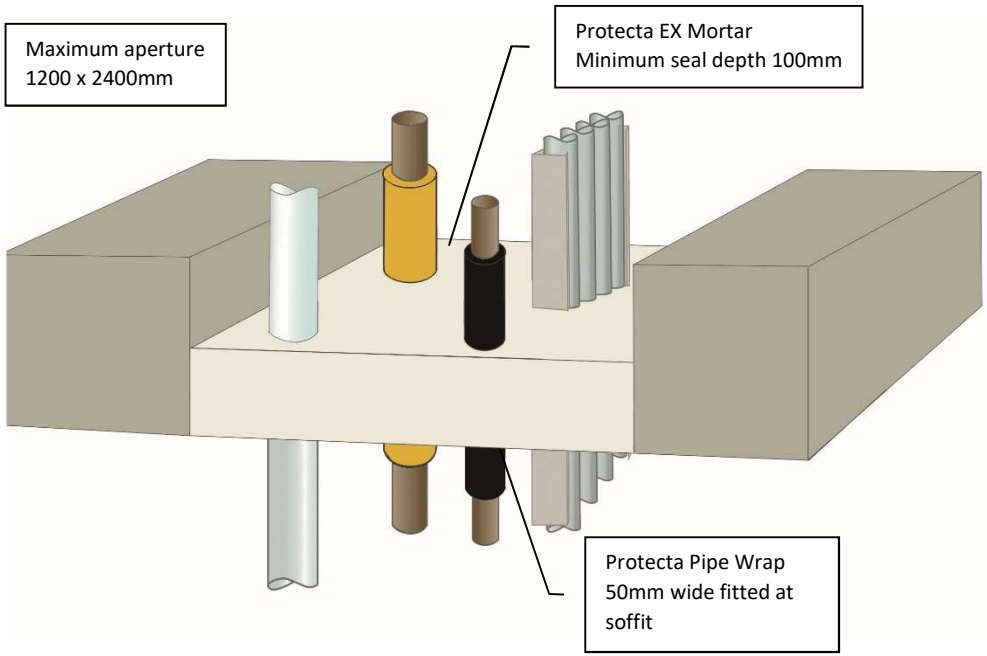
MIXED SERVICES APERTURE - EX MORTAR 100mm - CONCRETE FLOOR

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. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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.
7. 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.



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.

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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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System/FPA Register ID# FC407
For Fire Classifications refer to relevant systems in this website

Products	Protecta EX Mortar Protecta FR Pipe Wrap
Construction	Minimum floor thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Services

1. Cables ≤ Ø21mm, single or bundled, un-sheathed cables/wires ≤ Ø24mm and PVC conduits ≤ Ø16mm, with or without cable trays
2. Steel pipes ≤ Ø16mm (C/U)
3. Steel pipes ≤ Ø165mm with 13 - 19mm thick continuous foam insulation and 1 layer of wrap
4. Steel pipes ≤ Ø324mm with 25mm thick continuous foam insulation and 2 layers wrap
5. Steel pipes ≤ Ø324mm with 26 - 50mm thick continuous foam insulation and 3 layers wrap
6. Steel pipes ≤ Ø324mm with 20-80mm thick continuous stone wool insulation
7. Steel pipes ≤ Ø40mm with ≥ 20mm thick interrupted stone wool insulation
8. Steel pipes ≤ Ø219mm with ≥ 30mm thick interrupted stone wool insulation
9. Copper pipes Ø6mm
10. Copper pipes ≤ Ø12mm with 9mm thick continuous foam insulation and 2 layers wrap
11. Copper pipes ≤ Ø54mm with 20-80mm thick continuous stone wool insulation
12. Copper pipes ≤ Ø54mm with ≥ 20mm thick interrupted stone wool insulation
13. Alupex pipes ≤ Ø20mm
14. Alupex pipes ≤ Ø16mm with 9mm thick continuous foam insulation and 2 layers wrap
15. Alupex pipes ≤ Ø75mm with ≥ 20mm thick interrupted stone wool insulation
16. Plastic pipes ≤Ø40mm
17. Plastic pipes ≤Ø110mm with 2 layers pipe wrap
18. Plastic pipes ≤Ø125mm with 4 layers pipe wrap
19. Plastic pipes ≤Ø160mm with 6 layers pipe wrap
20. PEX pipe-in-pipes ≤ Ø25mm
21. Conduits of PVC-U & PVC-C plastic pipes ≤ Ø110mm with 2 layers pipe wrap

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