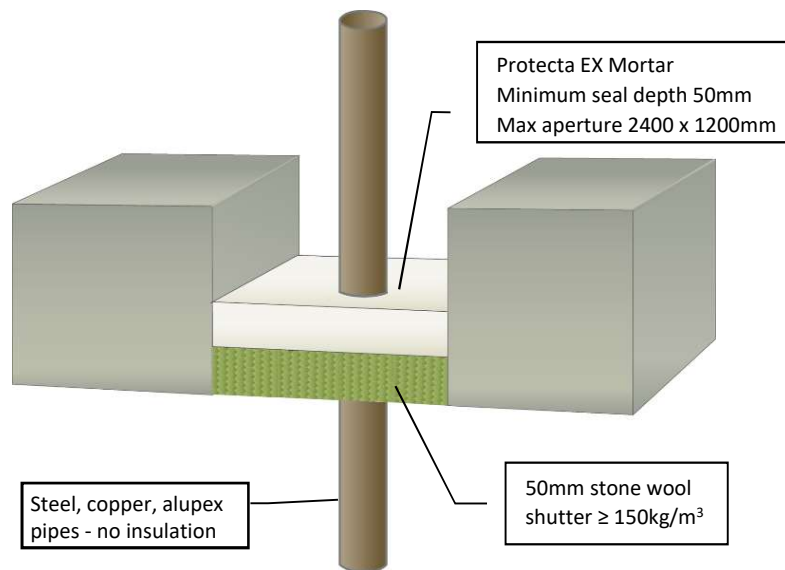


## Protecta EX Mortar - Bare Metal Pipe in 100mm Concrete Floor

### 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 pipes 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. Install a stone wool shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal – any small openings should be sealed with Protecta® FR Acrylic
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.



### 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

System/FPA Register ID# FC339

<b>Products</b>	Protecta EX Mortar Stone wool shutter
<b>Application</b>	Fire stopping of bare metal pipes in rigid floors
<b>Construction</b>	Minimum floor thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m <sup>3</sup> .

### Fire & Sound classification

Steel pipes ≤ Ø324mm in maximum aperture  
1200 x 2400mm      FRR -/180/-  
or 280 x 280mm      FRR -/240/-

Copper pipes ≤ Ø6mm in maximum aperture  
1200 x 2400mm      FFR -/180/120

Copper pipes ≤ Ø15mm in maximum aperture  
1200 x 2400mm      FFR -/180/30

Copper pipes ≤ Ø54mm in maximum aperture  
1200 x 2400mm      FFR -/180/-

Alupex pipes ≤ Ø20mm in maximum aperture  
1200 x 2400mm      FFR -/180/180

Alupex pipes ≤ Ø75mm in maximum aperture  
1200 x 2400mm      FFR -/180/30

Sound reduction (seal only)      STC 64

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Sheet size: **A4**      Drawn date & no: 19/8/21

Scale: **NTS**      Drawn by: K.B