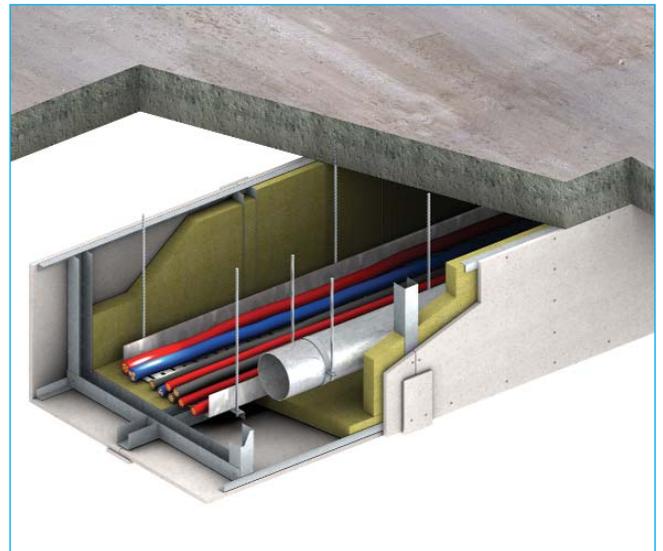
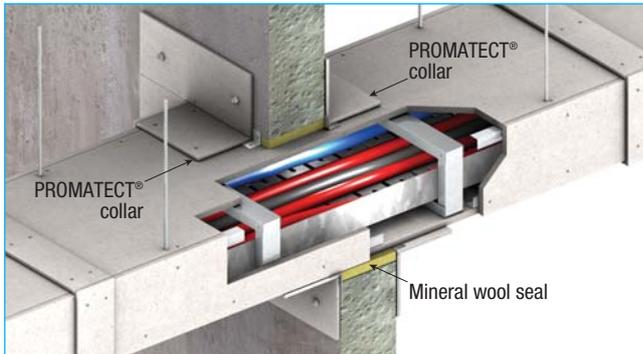




Wall Penetrations

Where the enclosure passes through a fire compartment wall, the penetration must be properly sealed. The space between the enclosure and the reveal of the opening in the wall is filled with mineral wool of minimum 110kg/m³ density. One layer of L-shaped PROMATECT®-H collar is required to be fitted around the enclosure on both sides of the wall. See page 4 to 5 for thicknesses suitable for different types of enclosure and requirements of FRL.

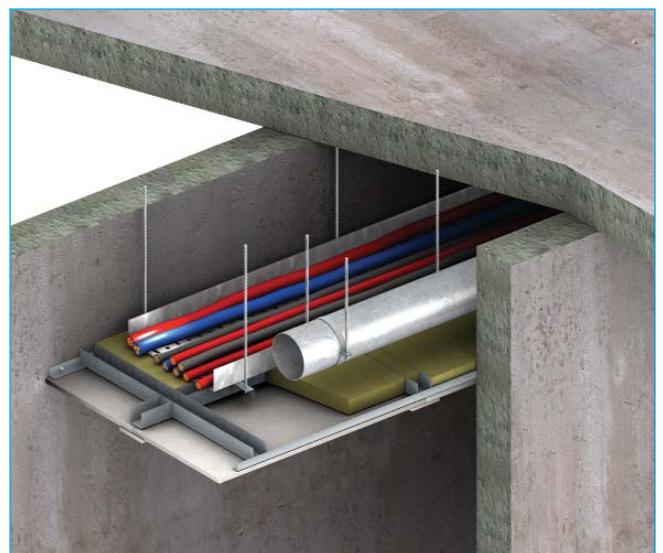
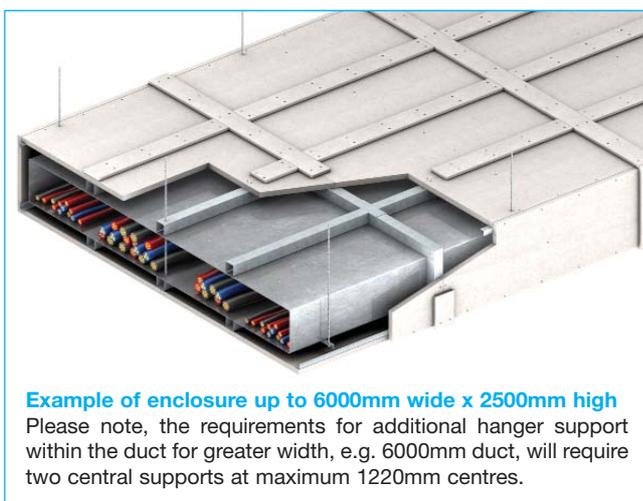
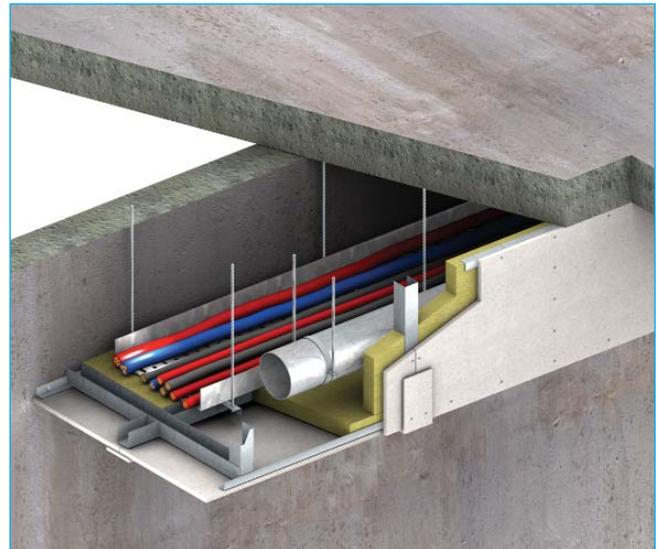


Internal Cross Section Dimension (more than 1500mm x 1500mm)

The maximum approved internal dimensions of the enclosure is 6000mm wide x 2500mm high. For enclosures with internal dimensions greater than 1500mm x 1500mm, additional threaded rods are fitted at each hanger position, at 1220mm maximum centres across the width of the enclosure. These threaded rods pass through the enclosure and support the horizontal hanger support element beneath the enclosure. The rods also support the top of the enclosure using a nut and large steel washer, this prevents bowing under fire conditions of wide enclosure systems.

As the width of the enclosure system increases, the spacing of the channel collars must be reduced so that the maximum area of unsupported board does not exceed 1.5m².

The penetrations of the rods through the enclosure are sealed with PROMASEAL® AN Acrylic Sealant.



Top to bottom: 3-sided, 2-sided and 1-sided E&M services enclosures using PROMATECT® boards.

1, 2 & 3-sided Enclosures

3-sided, 2-sided and 1-sided enclosures are constructed in the same way as 4-sided enclosures. Steel angles of 50mm x 50mm x 0.9mm thick and 3mm thick for up to 120 and 240 minutes fire protection respectively, are fastened to the floor soffit or wall with M8 all steel expanding anchors at 500mm nominal centres. The PROMATECT® boards forming the walls of the protection to the building services are then fastened to the angles with steel self-tapping drywall type screws in appropriate length at 200mm nominal centres. The services are independently supported.