



# **Isover Protect Coated Board**

Fire stopping & sealing

Installation Instruction

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# General Guide

**Minimum separations and limitations:** Services can be sealed as specified in the detailed drawings. An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 100 mm. Services should be a minimum of 25 mm from seal edges.

Services within the system Isover Protect Coated Board seal do not require a minimum separation, except where Isover Protect Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture.

Isover Protect Coated Board seals which involve services penetrating both sides of a flexible wall may also be used in the situation where the services penetrates one side of the wall only and the remaining side of the wall is not penetrated at the same point (i.e. the services continues on the inside of the wall).

**Supporting constructions:** Flexible walls must have a minimum thickness of 75 mm and comprise steel studs or timber studs\*) lined on both faces with minimum 1 layer of 12.5 mm thick boards. Timber walls must have a minimum thickness of 100 mm and comprise solid wood or cross-laminated timber. Rigid walls must have a minimum thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 350 kg/m<sup>3</sup> (650 kg/m<sup>3</sup> in rigid wall details). Rigid floors must have a minimum thickness of 125 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m<sup>3</sup>. Timber floors must have a minimum thickness of 150 mm and comprise solid wood or cross-laminated timber.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. Services in floors should be

supported at maximum 450 mm from the top face. Services in walls should be supported at maximum 270 mm from both faces of the wall.

\*) Timber studs: no part of the penetration seal may be closer than 100 mm to a stud, and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1 must be provided within the cavity between the penetration seal and the stud.

**Services:** Metallic pipes through the system Isover Protect Coated Board may be used in all angles between 90° and 45° in all directions.

Where PVC pipes are mentioned, this includes PVC-U, PVC-C and similar if the pipe is according to EN 1329-1, EN 1452-2, EN 1453-1 and EN 1566-1. Where PP pipes are mentioned in Annex A, this includes PP-MV, PP-H, PP-R and similar if the pipe is according to EN 1451-1 or DIN 8077/8078. Where PE pipes are mentioned, this includes PE-LD, PE-MD, PE-HD, PE-X and similar according to EN 1519-1, EN 12201-2 or EN 12666-1, ABS according to EN 1455-1 and pipes made from SAN+PVC according to EN 1565-1.

# Installation

1. Before installing Isover Protect Coated Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Isover Protect Coating, Isover Protect Acrylic, Isover Protect Graphite and Service Coat FR-1 are water based, so in cases where corrosion protection is a problem, some metals may require a barrier between the seal and the surface prior to this installation.
3. When fitting double layer boards into drywalls, the coated side of the board should normally be flush with the surface of the wall on both sides. In seals wider than 2,400 mm, uninterrupted separating studs will be required at 2,400 mm centres or less.
4. When fitting double layer 60 mm thick boards into rigid constructions, the boards should normally be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30 mm between the boards, unless described differently in the detailed drawings.
5. When fitting single layer boards into constructions, the board can be positioned to either side of the construction or anywhere in between, unless described differently in the detailed drawings.
6. When installing boards in hollow floor slabs, fire seals should be installed with double layer boards flush on both sides.
7. Where single sided top face seals are described, these can also be used in composite floors (e.g., concrete filled, steel trapezoidal decking).
8. An aperture with or without penetrating services, can include a steel or plastic sleeve casted or friction fitted within rigid constructions. Plastic sleeves should have a maximum wall thickness of 9.5 mm (36.3 mm limited to EI 60).
9. The boards may be surrounded on two sides, horizontally and vertically, with Isover Protect Flexi Board, maximum 400 mm wide. The solution is limited to EI 120.
10. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s) (see detailed drawings). All exposed and cut edges of the board(s) can be sealed with Isover Protect Coating or Isover Protect Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit (unless pattsess fitted). All joints, gaps or imperfections in the installed seal must be filled with Isover Protect Acrylic on the coated exposed side(s) of the board(s). Visible edges of Isover Protect Pipe Wraps can be sealed with Isover Protect Acrylic (optional).
11. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Isover Protect Acrylic and Isover Protect Graphite seals by painting over with Isover Protect Coating.

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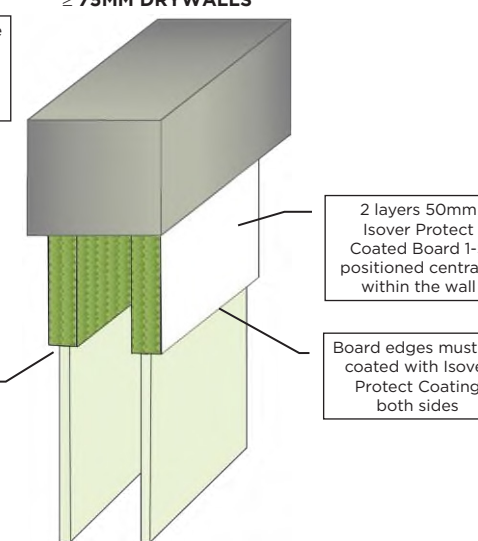
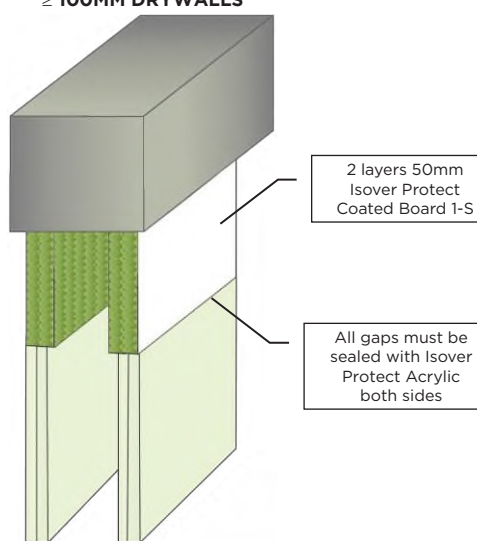
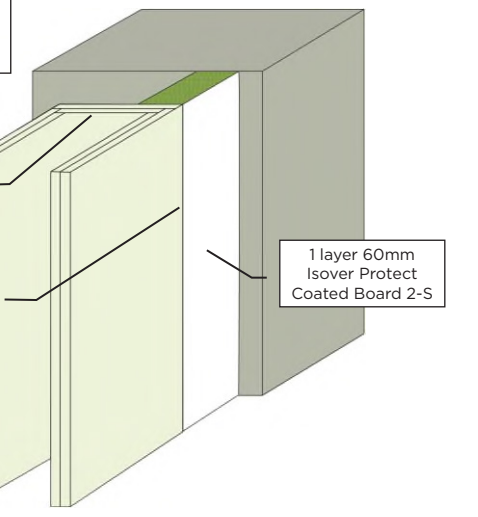
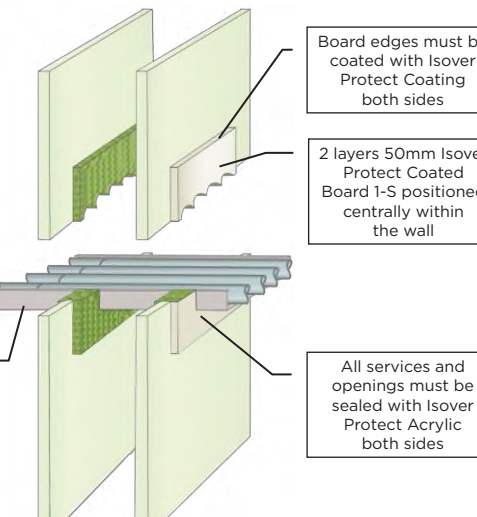
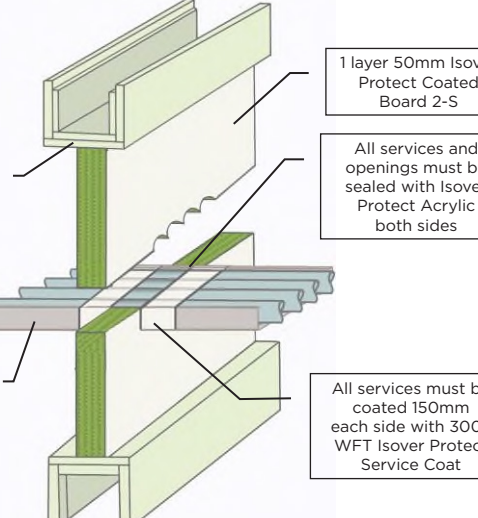
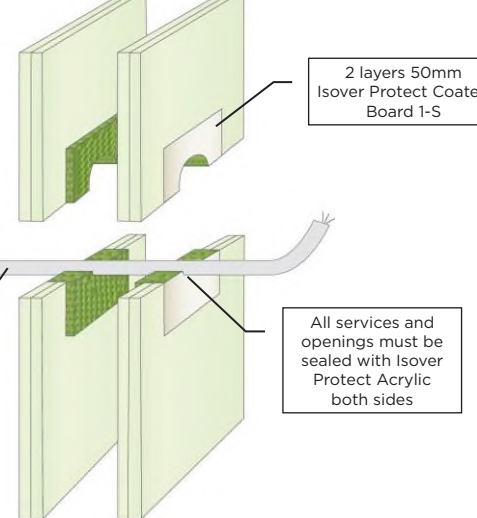
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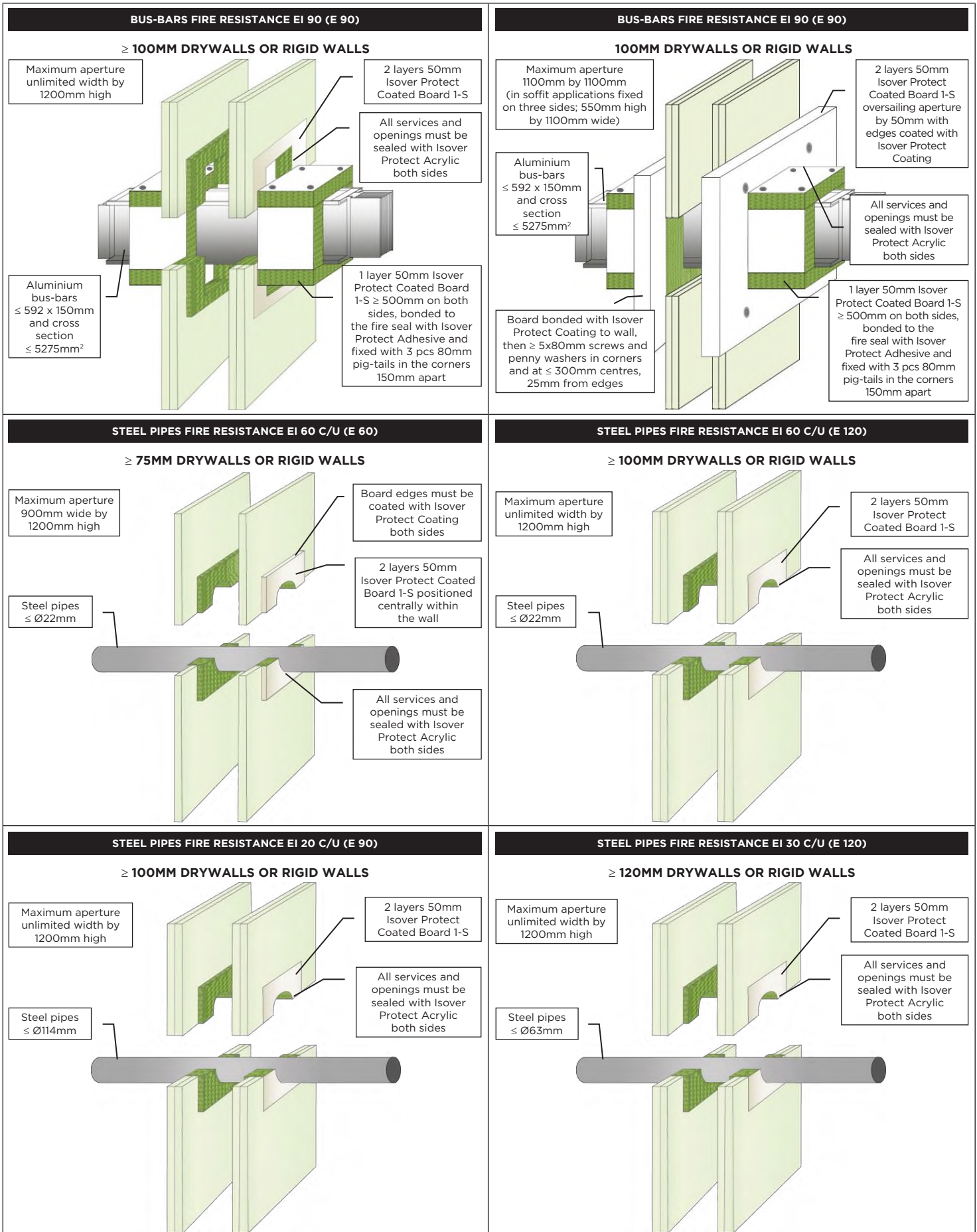
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<p><b>HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 75MM DRYWALLS</b></p> <p>Maximum 1200mm wide horizontal joints within a vertical construction or abutting a floor, ceiling or roof</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>  <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Board edges must be coated with Isover Protect Coating both sides</p>	<p><b>HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)</b></p> <p><b>≥ 100MM DRYWALLS</b></p> <p>Maximum 1200mm wide horizontal joints within a vertical construction or abutting a floor, ceiling or roof</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 100MM DRYWALLS</b></p> <p>Maximum 600mm wide vertical joints within a vertical construction or abutting a facing wall</p> <p>Lined drywall with 2 layers of 12.5mm gypsum boards</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>  <p>1 layer 60mm Isover Protect Coated Board 2-S</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Cables ≤ Ø80mm single and bundled, non-sheathed conductors ≤ 185mm<sup>2</sup> and copper conduits ≤ Ø16mm, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>Cables ≤ Ø80mm single and bundled, with or without perforated cable trays and ladders</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>All services must be coated 150mm each side with 300µ WFT Isover Protect Service Coat</p> 	<p><b>CABLES FIRE RESISTANCE EI 60 (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Cables ≤ Ø21mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

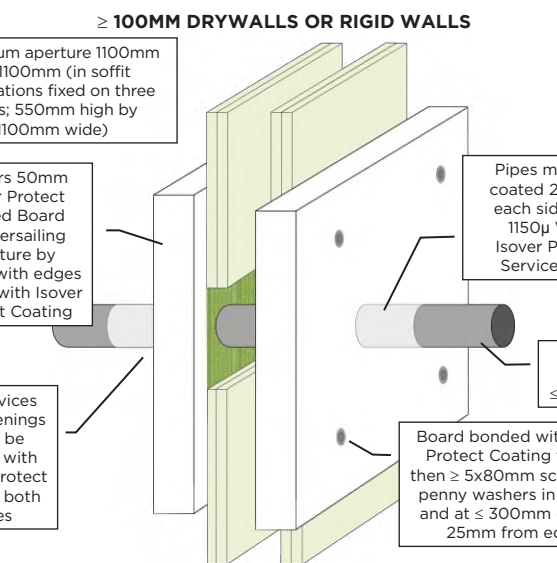
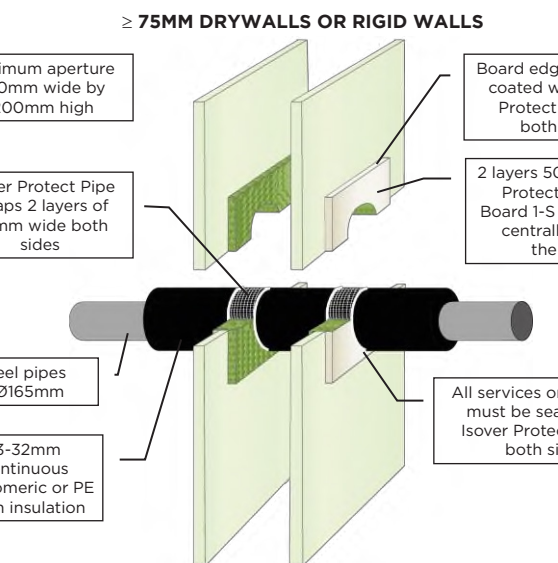
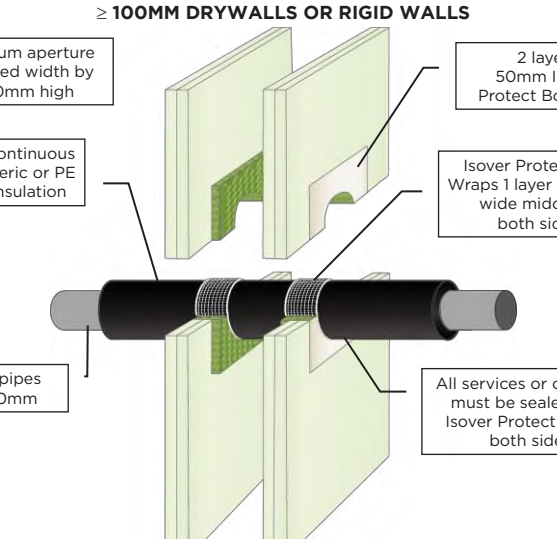
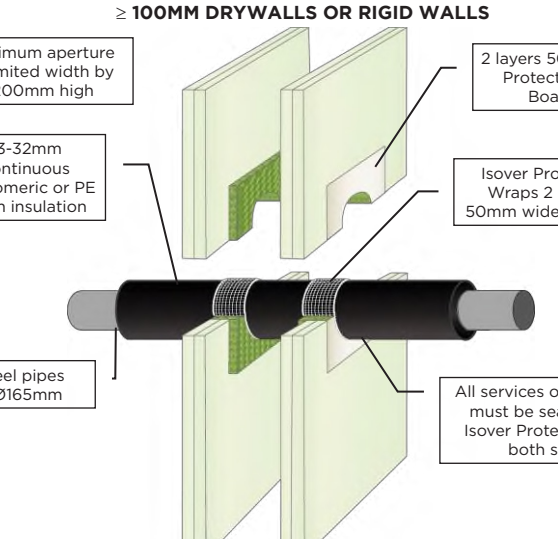
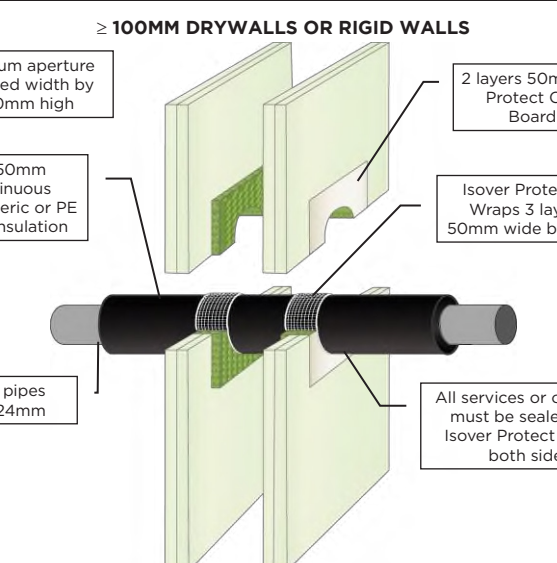
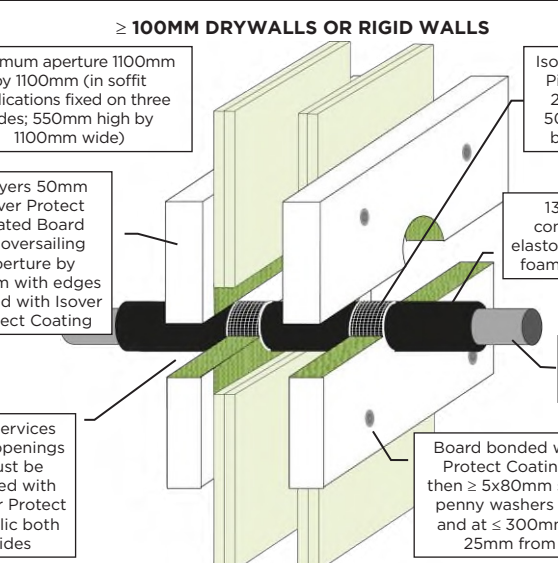
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Cables ≤ Ø80mm single and bundled, and steel and plastic conduits ≤ Ø16mm with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Cables ≤ Ø50mm single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>
<p><b>BUS-BARS FIRE RESISTANCE EI 20 (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>BUS-BARS FIRE RESISTANCE EI 20 (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>BUS-BARS FIRE RESISTANCE EI 20 (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>	<p><b>BUS-BARS FIRE RESISTANCE EI 60 (E60)</b></p> <p><b>75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>1 layer 50mm Isover Protect Coated Board 1-S ≥ 500mm on both sides, bonded to the fire seal with Isover Protect Adhesive and fixed with 3 pcs 80mm pig-tails in the corners</p>

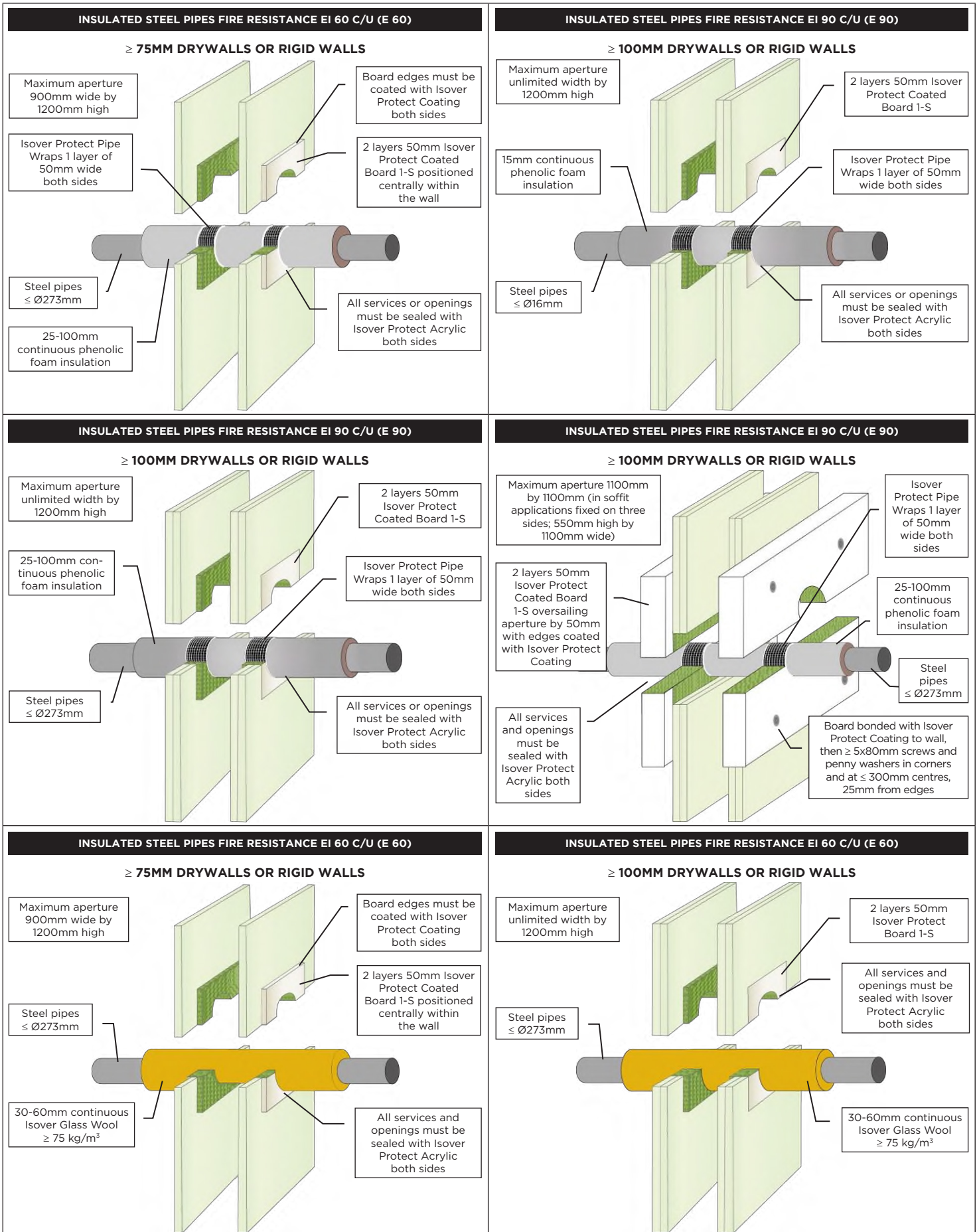


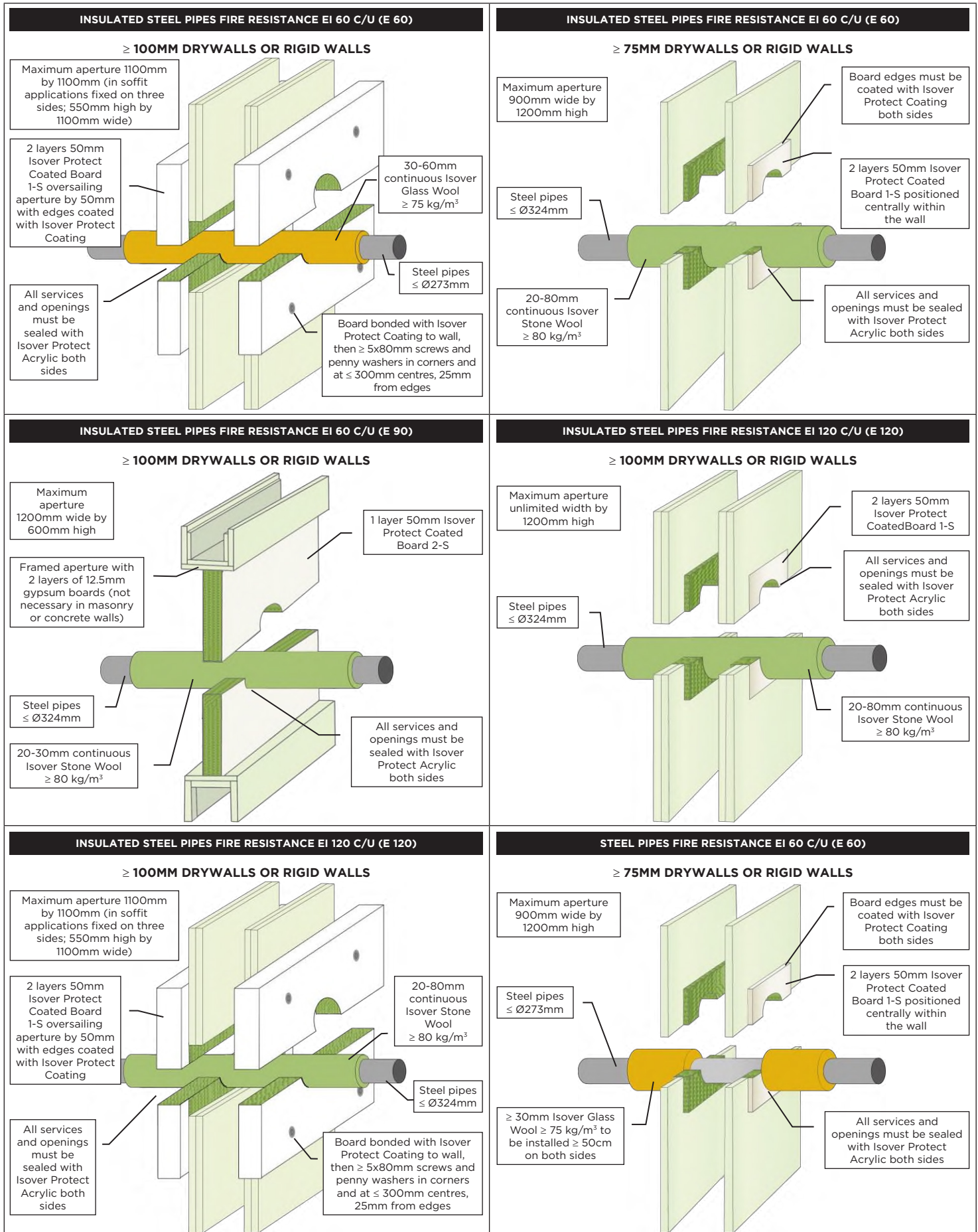
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>STEEL PIPES FIRE RESISTANCE EI 20 C/U (E 120)</b></p> <p><b>≥ 120MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø324mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Steel pipes ≤ Ø22mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Steel pipes ≤ Ø114mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Pipes must be coated 200mm each side with 1500µ WFT Isover Protect Service Coat</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø63mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 2300µ WFT Isover Protect Service Coat</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø63mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 1150µ WFT Isover Protect Service Coat</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø114mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 1500µ WFT Isover Protect Service Coat</p>

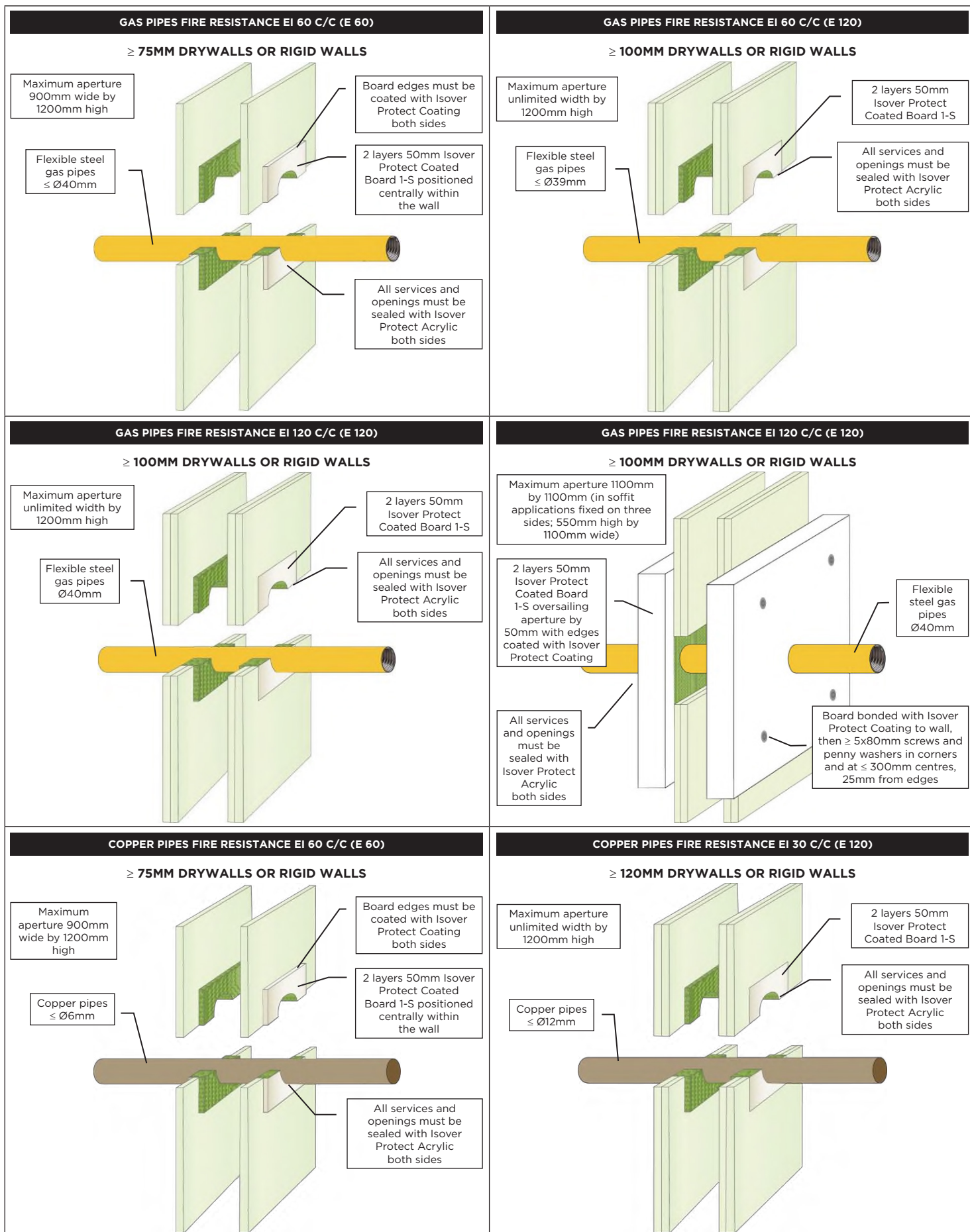
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Pipes must be coated 200mm each side with 1150µ WFT Isover Protect Service Coat</p> <p>Steel pipes ≤ Ø63mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Steel pipes ≤ Ø165mm</p> <p>13-32mm continuous elastomeric or PE foam insulation</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 120 U/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>13mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Board 1-S</p> <p>Isover Protect Pipe Wraps 1 layer of 50mm wide middle or both sides</p> <p>Steel pipes ≤ Ø40mm</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>13-32mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Steel pipes ≤ Ø165mm</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>32-50mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 3 layers of 50mm wide both sides</p> <p>Steel pipes ≤ Ø324mm</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>13-32mm continuous elastomeric or PE foam insulation</p> <p>Steel pipes ≤ Ø165mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 



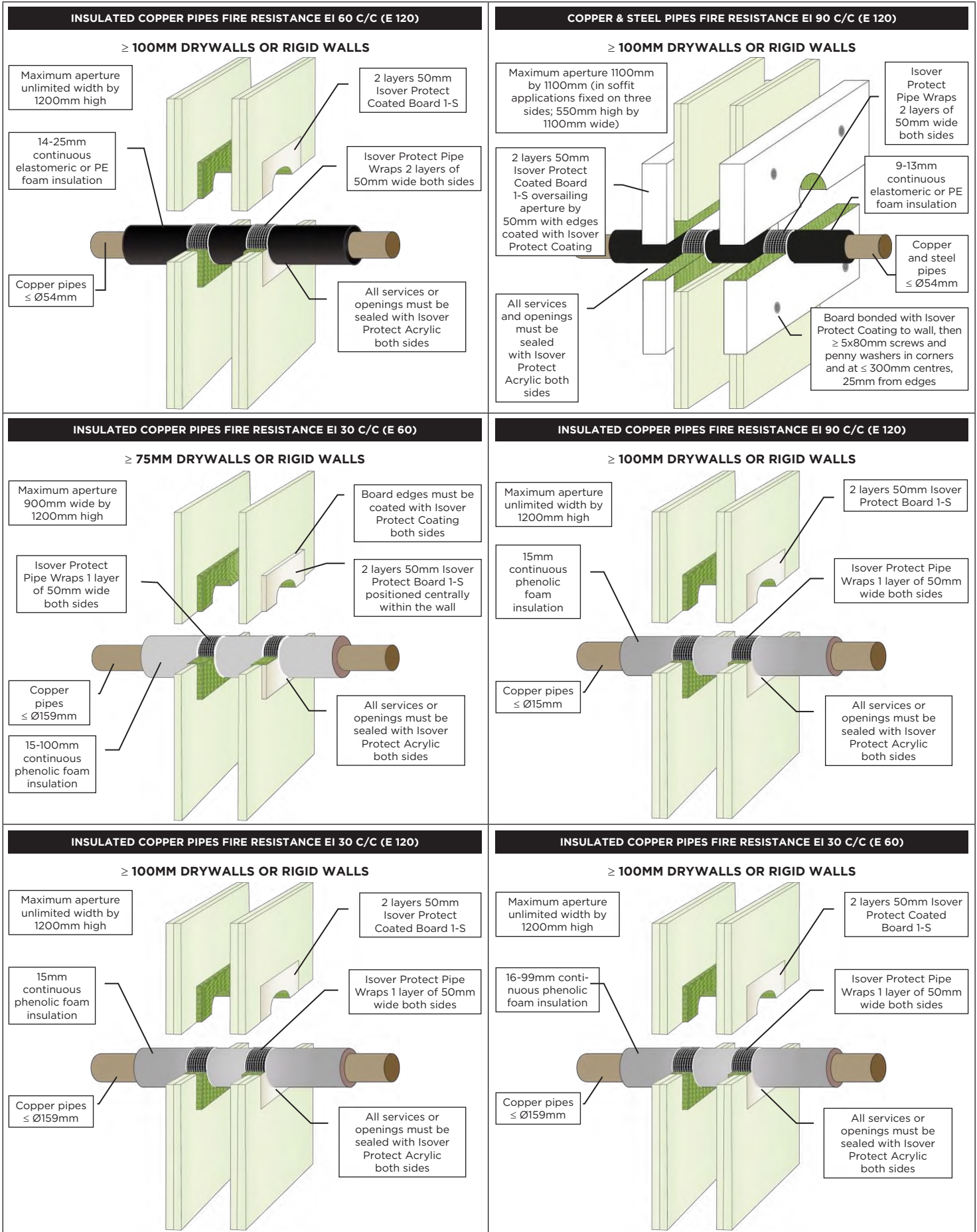


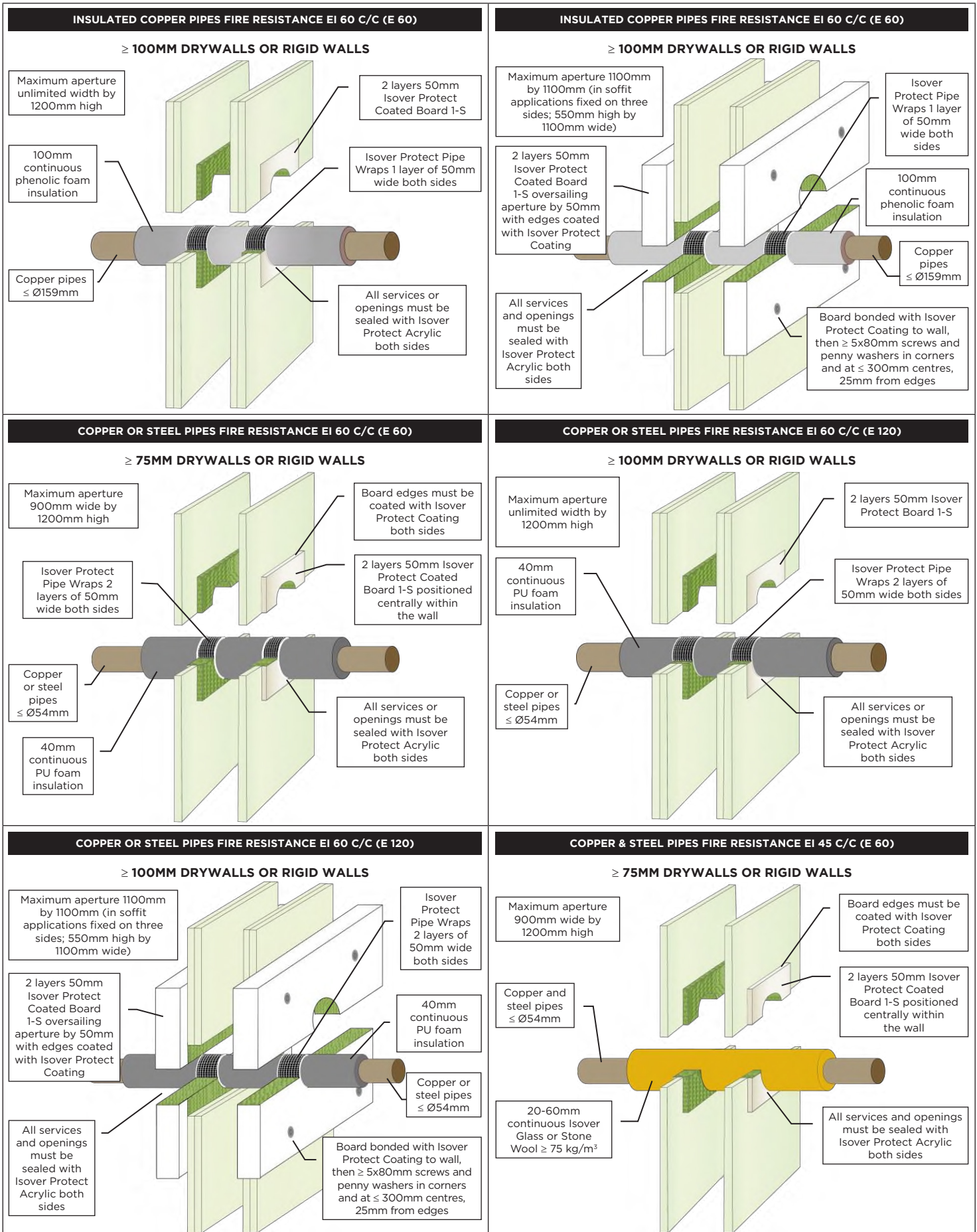
<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø273mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 30mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 30mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Steel pipes ≤ Ø273mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Steel pipes ≤ Ø219mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>≥ 30mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø40mm</p> <p>2 layers 50mm Isover Protect Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 20mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Steel pipes ≤ Ø219mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 30mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 30mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Steel pipes ≤ Ø219mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>



# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

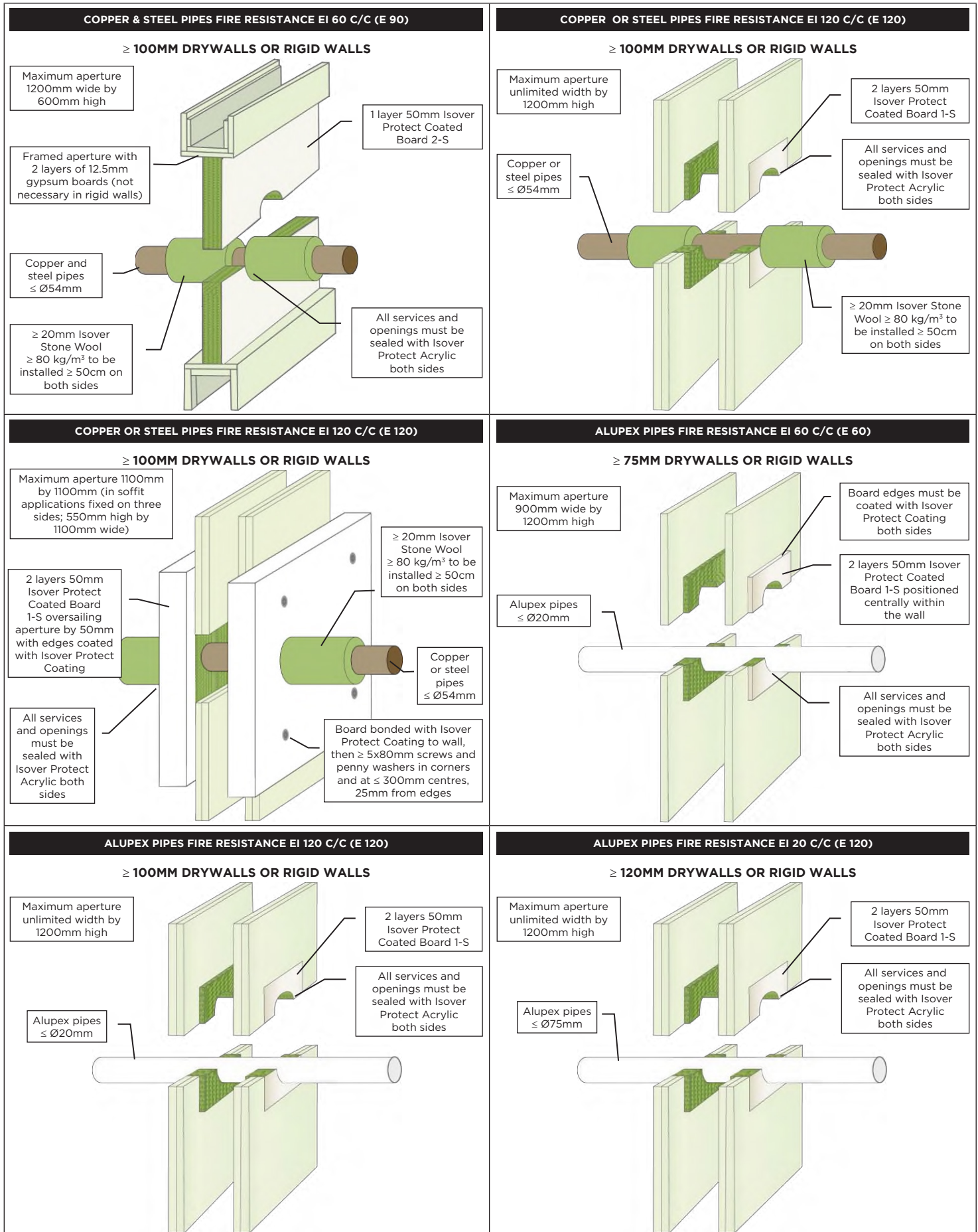
<p><b>COPPER PIPES FIRE RESISTANCE EI 15 C/C (E 120)</b></p> <p><b>≥ 120MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Copper pipes ≤ Ø54mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>COPPER PIPES FIRE RESISTANCE EI 15 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Copper pipes ≤ Ø54mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>
<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Copper and steel pipes ≤ Ø54mm</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>Copper &amp; steel pipes ≤ Ø54mm</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>Isover Protect Collar ≤ Ø110mm and 50mm high, both sides, fixed with 50mm pigtail screws</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9mm continuous elastomeric or PE foam insulation</p> <p>Copper and steel pipes ≤ Ø12mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 90 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9-13mm continuous elastomeric or PE foam insulation</p> <p>Copper and steel pipes ≤ Ø54mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p>



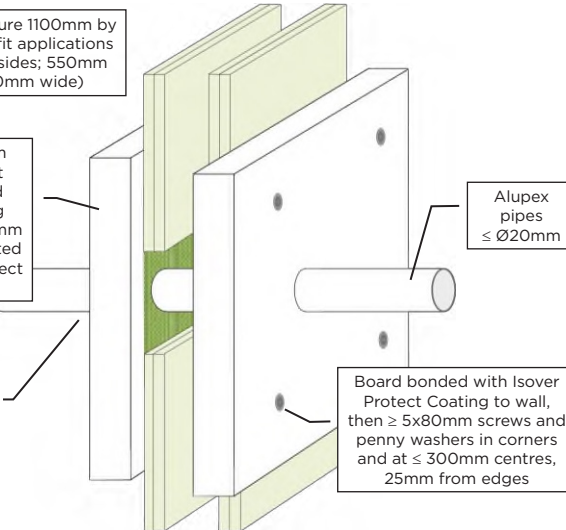
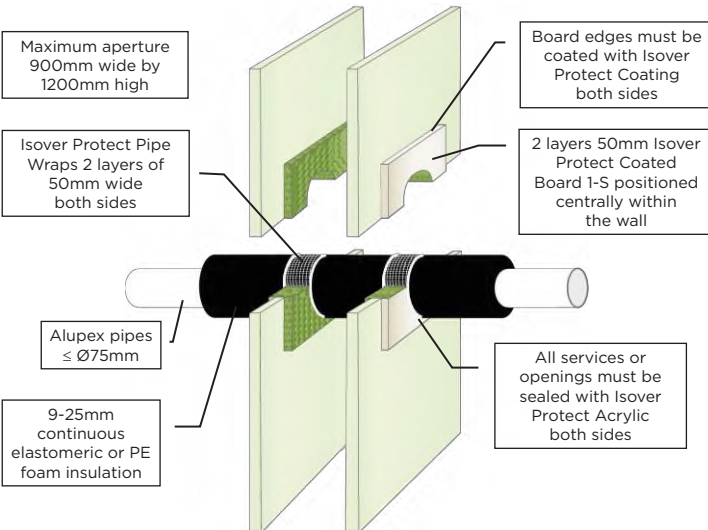
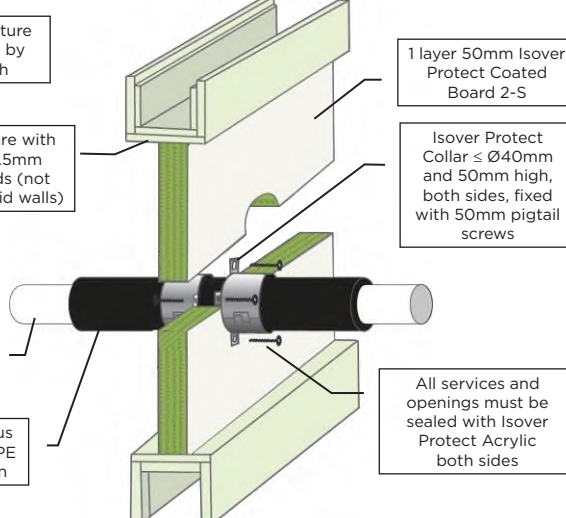
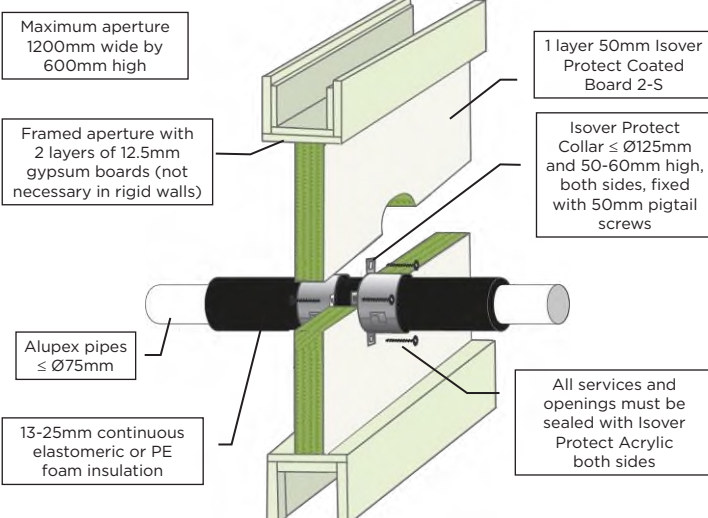
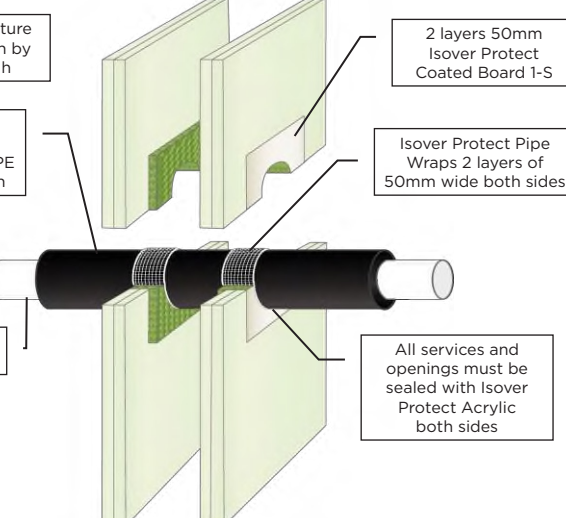
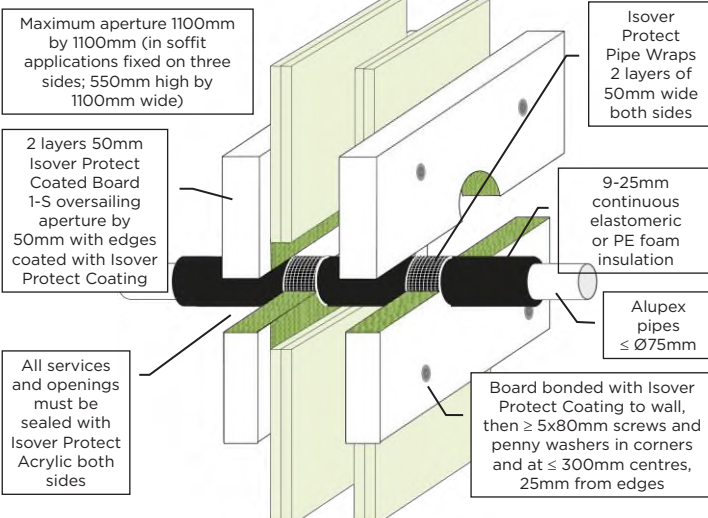


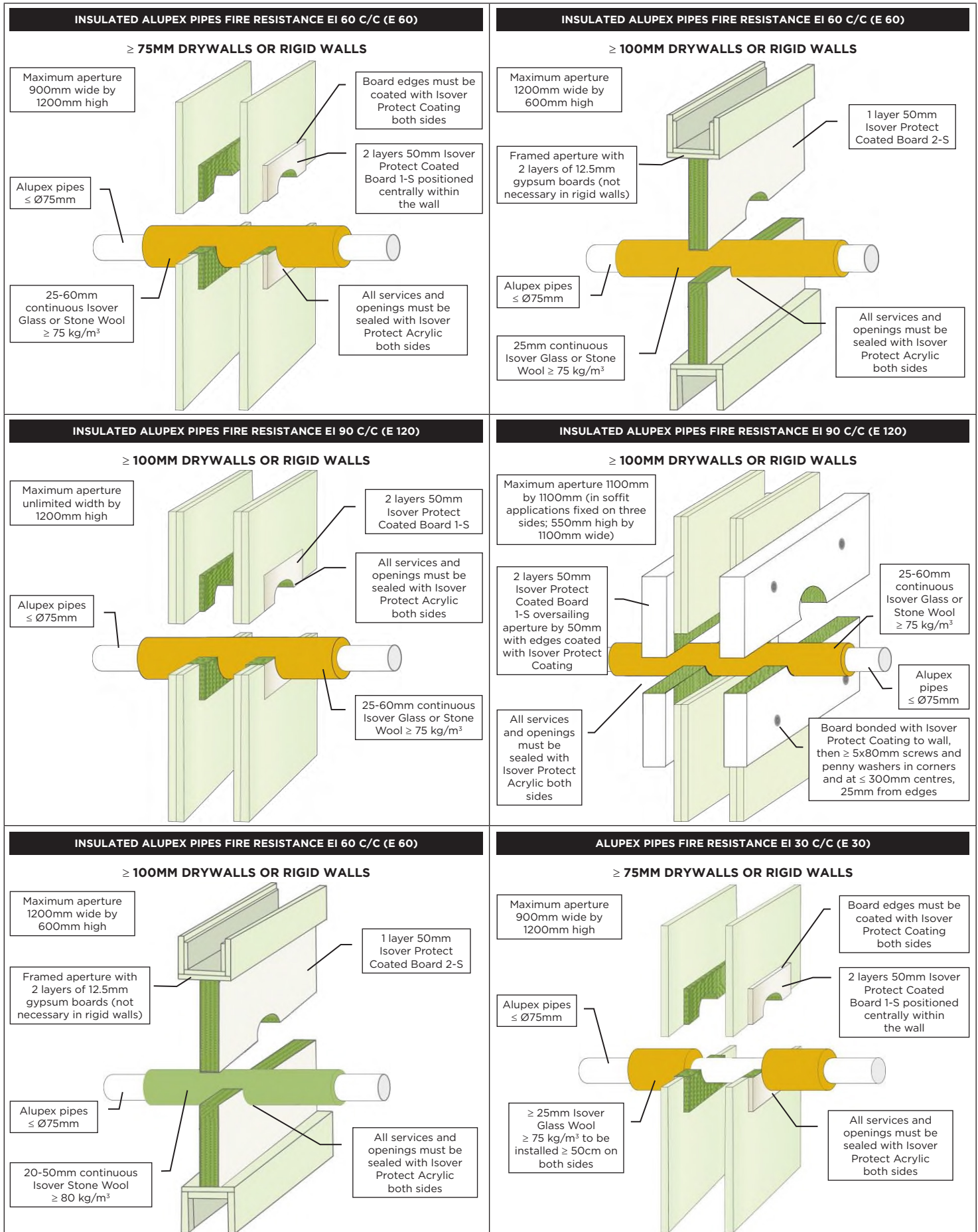
<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>Copper and steel pipes ≤ Ø54mm</p> <p>20-40mm continuous Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Copper and steel pipes ≤ Ø15mm</p> <p>20mm continuous Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup></p>
<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 45 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Copper and steel pipes ≤ Ø54mm</p> <p>20-40mm continuous Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup></p>	<p><b>COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Copper pipes ≤ Ø54mm</p> <p>30-60mm continuous Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup></p>
<p><b>COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>30-60mm continuous Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup></p> <p>Copper pipes ≤ Ø54mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>	<p><b>COPPER &amp; STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Copper and steel pipes ≤ Ø54mm</p> <p>20-50mm continuous Isover Stone Wool ≥ 80 kg/m<sup>3</sup></p>

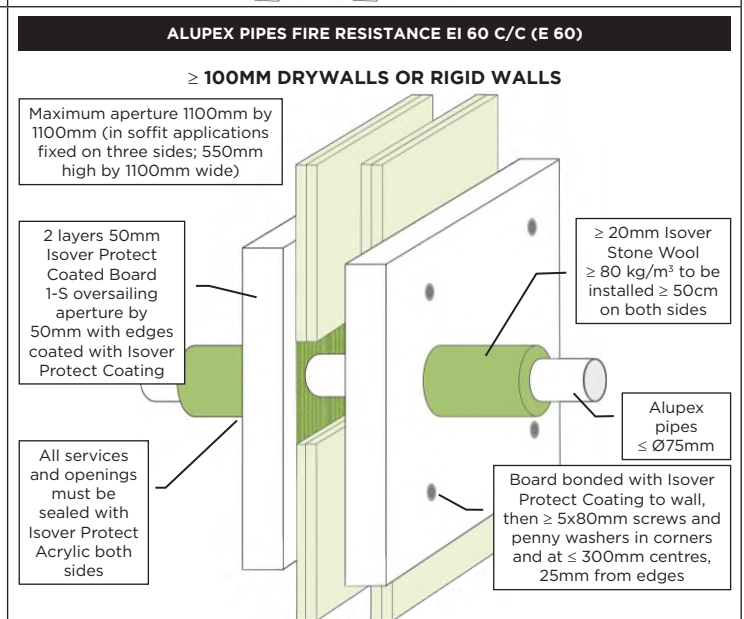
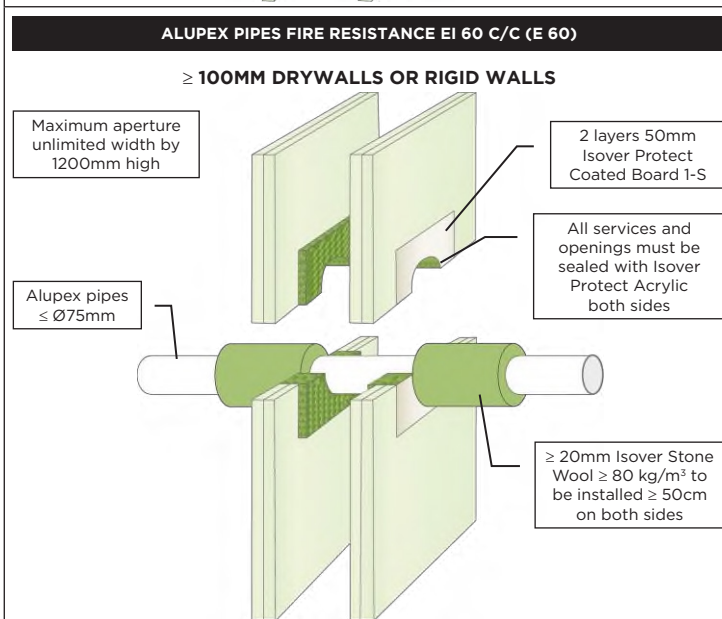
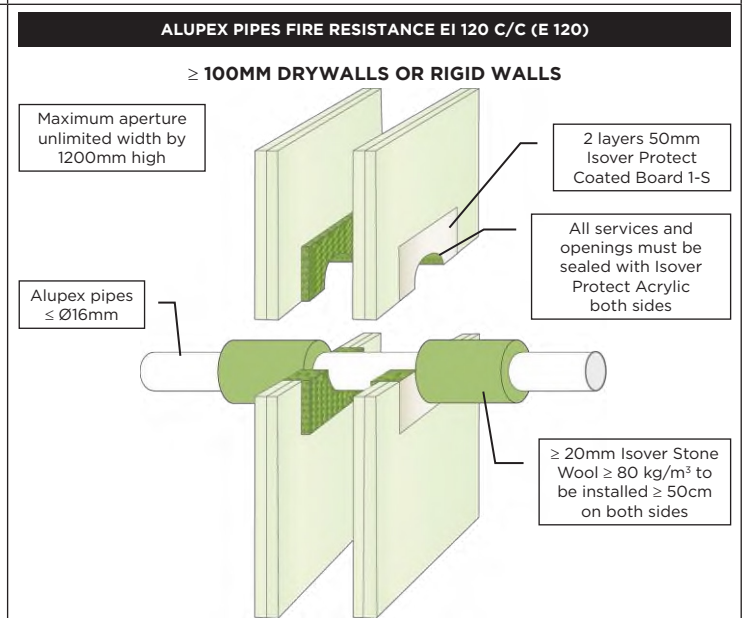
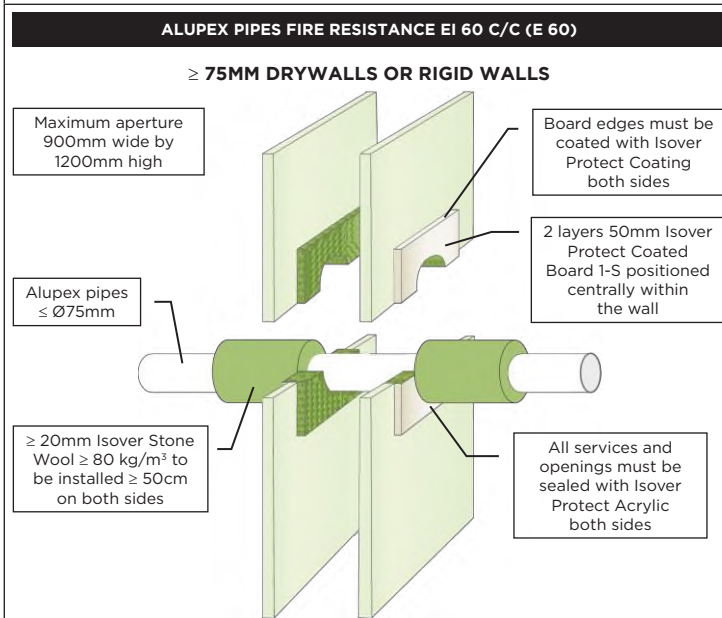
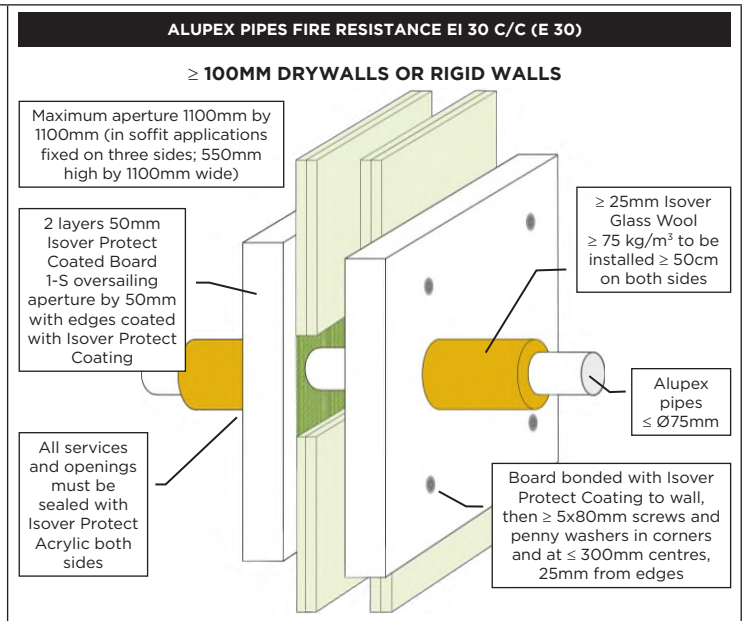
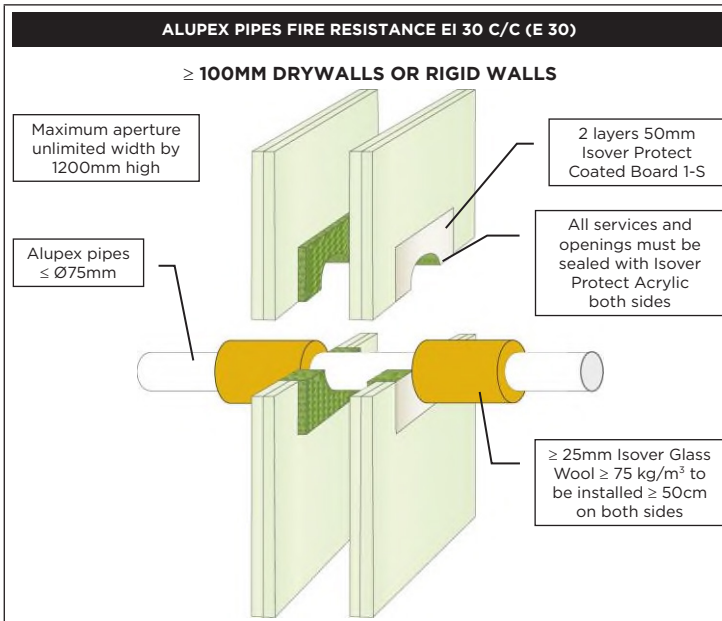
<p><b>COPPER OR STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Copper or steel pipes ≤ Ø108mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>≥ 30mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>COPPER PIPES FIRE RESISTANCE EI 45 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>Copper pipes ≤ Ø54mm</p> <p>≥ 20mm Isover Glass or Stone Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Copper or steel pipes ≤ Ø54mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 20mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p>	<p><b>COPPER OR STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>Copper or steel pipes ≤ Ø108mm</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 30mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p>
<p><b>COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>≥ 20mm Isover Glass Wool ≥ 75 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Copper or steel pipes ≤ Ø54mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>	<p><b>COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Copper pipes ≤ Ø54mm</p> <p>≥ 20mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>



# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Alupex pipes ≤ Ø20mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> 	<p><b>INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>Alupex pipes ≤ Ø75mm</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>Isover Protect Collar ≤ Ø40mm and 50mm high, both sides, fixed with 50mm pigtail screws</p> <p>Alupex pipes ≤ Ø16mm</p> <p>9mm continuous elastomeric or PE foam insulation</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>Framed aperture with 2 layers of 12.5mm gypsum boards (not necessary in rigid walls)</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>Isover Protect Collar ≤ Ø125mm and 50-60mm high, both sides, fixed with 50mm pigtail screws</p> <p>Alupex pipes ≤ Ø75mm</p> <p>13-25mm continuous elastomeric or PE foam insulation</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>INSULATED ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Alupex pipes ≤ Ø75mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>INSULATED ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>Alupex pipes ≤ Ø75mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> 





**INSULATED METAL PIPES WITH ISOVER PROTECT GRAPHITE FIRE RESISTANCE EI 60**

**≥ 75MM DRYWALLS OR RIGID WALLS**

Maximum aperture 900mm wide by 1200mm high

Metal pipes with no minimum distance in-between

Board edges must be coated with Isover Protect Coating both sides

Isover Stone Wool depth ≥ 25mm, density ≥ 33kg/m<sup>3</sup> or similar on both sides

Isover Protect Graphite depth ≥ 25mm on both sides with seal width 5-10mm

All openings must be sealed with Isover Protect Acrylic both sides

2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall

Services	Pipe Insulation	Classification
Ø6mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 60 C/C (E 60 C/C)
≤ Ø18mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 60 C/C (E 60 C/C)
≤ Ø54mm steel or copper pipes	19mm elastomeric insulation class ≥ B-s3, d0	EI 60 C/C (E 60 C/C)
≤ Ø54mm steel or copper pipes	25mm phenolic foam insulation	EI 60 C/C (E 60 C/C)
Ø14mm alupex pipes	6mm PE foam insulation	EI 60 C/C (E 60 C/C)

**INSULATED METAL PIPES WITH ISOVER PROTECT GRAPHITE FIRE RESISTANCE EI 60-120**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture unlimited width by 1200mm high

Metal pipes with no minimum distance in-between

Isover Stone Wool depth ≥ 25mm, density ≥ 33kg/m<sup>3</sup> or similar on both sides

Isover Protect Graphite depth ≥ 25mm on both sides with seal width 5-10mm

All openings must be sealed with Isover Protect Acrylic both sides

2 layers 50mm Isover Protect Coated Board 1-S

Services	Pipe Insulation	Classification
Ø6mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 120 C/C (E 120 C/C)
≤ Ø18mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 90 C/C (E 120 C/C)
≤ Ø54mm steel or copper pipes	19mm elastomeric insulation class ≥ B-s3, d0	EI 90 C/C (E 120 C/C)
≤ Ø54mm steel or copper pipes	25mm phenolic foam insulation	EI 60 C/C (E 120 C/C)
Ø14mm alupex pipes	6mm PE foam insulation	EI 60 C/C (E 90 C/C)

**INSULATED METAL PIPES WITH ISOVER PROTECT GRAPHITE FIRE RESISTANCE EI 60-120**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

Metal pipes with no minimum distance in-between

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

Isover Stone Wool depth ≥ 25mm, density ≥ 33kg/m<sup>3</sup> or similar on both sides

Isover Protect Graphite depth ≥ 25mm on both sides with seal width 5-10mm

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

Services	Pipe Insulation	Classification
Ø6mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 120 C/C (E 120 C/C)
≤ Ø18mm steel or copper pipes	9mm elastomeric insulation class ≥ B-s3, d0	EI 90 C/C (E 120 C/C)
≤ Ø54mm steel or copper pipes	19mm elastomeric insulation class ≥ B-s3, d0	EI 90 C/C (E 120 C/C)
≤ Ø54mm steel or copper pipes	25mm phenolic foam insulation	EI 60 C/C (E 120 C/C)
Ø14mm alupex pipes	6mm PE foam insulation	EI 60 C/C (E 90 C/C)

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>PVC-U &amp; PVC-C pipe ≤ Ø32mm with wall thickness 1.0-2.4mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PVC-U &amp; PVC-C pipe ≤ Ø32mm with wall thickness 1.0-2.4mm</p>
<p><b>PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PVC-U &amp; PVC-C pipe ≤ Ø32mm with wall thickness 1.0-2.4mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>	<p><b>PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0-3.0mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0-3.0mm</p>	<p><b>PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0-3.0mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p>

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

**PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)**

**≥ 75MM DRYWALLS OR RIGID WALLS**

Maximum aperture 900mm wide by 1200mm high

Board edges must be coated with Isover Protect Coating both sides

2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall

PP pipe ≤ Ø32mm with wall thickness 1.8-4.4mm

All services and openings must be sealed with Isover Protect Acrylic both sides

**PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture unlimited width by 1200mm high

2 layers 50mm Isover Protect Coated Board 1-S

All services and openings must be sealed with Isover Protect Acrylic both sides

PP pipe ≤ Ø32mm with wall thickness 1.8-2.2mm

**PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture unlimited width by 1200mm high

2 layers 50mm Isover Protect Coated Board 1-S

All services and openings must be sealed with Isover Protect Acrylic both sides

PP pipe ≤ Ø32mm with wall thickness 2.3-4.4mm

**PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

PP pipe ≤ Ø32mm with wall thickness 1.8-2.2mm

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

All services and openings must be sealed with Isover Protect Acrylic both sides

**PLASTIC PIPES FIRE RESISTANCE EI 60**

**≥ 75MM DRYWALLS OR RIGID WALLS**

Maximum aperture 900mm wide by 1200mm high

Board edges must be coated with Isover Protect Coating both sides

Isover Protect Pipe Wraps to both sides

2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall

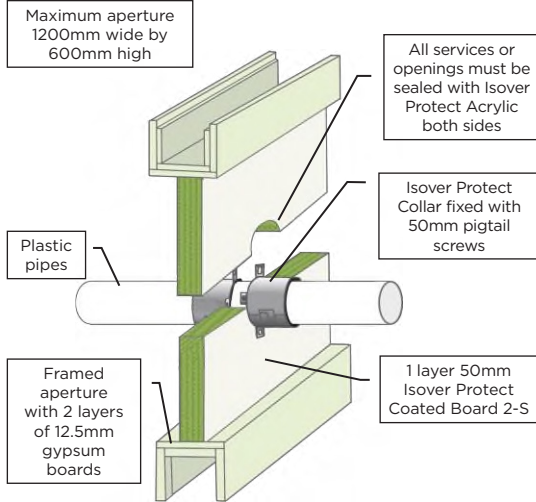
Plastic pipes

All services or openings must be sealed with Isover Protect Acrylic both sides

Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 - 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 - 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 40mm PP	1.8 - 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 - 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	4.2 - 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 110mm PP	2.7 - 15.1mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 125mm PVC-U & PVC-C	3.7 - 7.4mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	4.8 - 12.0mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 125mm PP	3.1 - 17.1mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 - 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PP	4.9 - 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 - 11.9mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 - 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 200mm PP	4.9 - 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 - 12.1mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 - 15.3mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

PLASTIC PIPES FIRE RESISTANCE EI 30-60

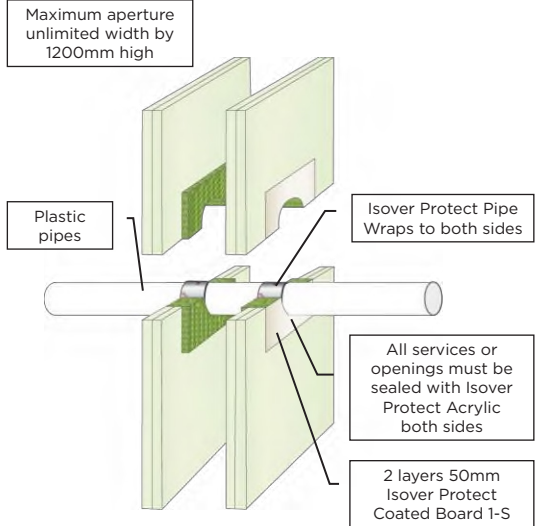
≥ 100MM DRYWALLS OR RIGID WALLS



Pipe & Collar Descriptions	Pipe Wall Thickness	Min. Collar Height	Classification
≤ Ø 110mm PVC-U & PVC-C	1.9 - 6.6mm	30mm	EI 30 U/C (E 90 U/C)
≤ Ø 50mm PVC-U & PVC-C	1.9 - 3.7mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PVC-U & PVC-C	2.1 - 6.6mm	50mm	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PVC-U & PVC-C	3.1 - 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 - 10.0mm	30mm	EI 45 U/C (E 60 U/C)
≤ Ø 50mm PE, ABS & SAN+PVC	3.0 - 4.6mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.0 - 10.0mm	50mm	EI 60 C/C (E 90 C/C)
≤ Ø 160mm PE, ABS & SAN+PVC	3.9 - 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 90mm PP	1.8 - 4.6mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PP	2.7mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 160mm PP	3.4 - 9.1mm	60mm	EI 60 C/C (E 60 C/C)

PLASTRØRS BRANDMODSTANDSEVNE EI 60-120

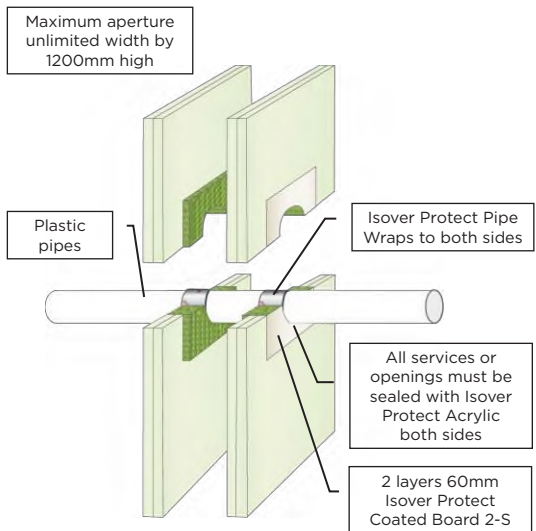
≥ 100MM DRYWALLS OR RIGID WALLS



Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 - 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 - 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PP	1.8 - 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 - 6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	4.2 - 10.0mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PP	2.7 - 15.1mm	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 125mm PVC-U & PVC-C	3.7 - 7.4mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	4.8 - 12.0mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PP	3.1 - 17.1mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 - 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PP	4.9 - 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 - 11.9mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PP	4.9 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 - 12.1mm	50 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 - 15.3mm	50 x 28.8mm (16 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 120MM DRYWALLS OR RIGID WALLS



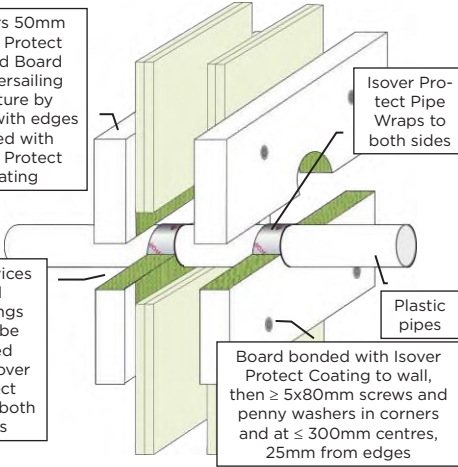
Installationer	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
Ø ≤ 40mm PVC-U og PVC-C	1.9 - 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤ 40mm PE, ABS og SAN+PVC	2.4 - 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤ 40mm PE, ABS og SAN+PVC	3.8 - 4.6mm	50 x 1.8mm (1 layer)	EI 120 C/C (E 120 C/C)
Ø ≤ 40mm PP	1.8 - 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤ 110mm PVC-U og PVC-C	2.7 - 6.6mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
Ø ≤ 110mm PE, ABS og SAN+PVC	3.4 - 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
Ø ≤ 110mm PP	2.7 - 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
Ø ≤ 160mm PVC-U og PVC-C	4.0 - 9.5mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø ≤ 160mm PE, ABS og SAN+PVC	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø ≤ 160mm PP	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)

PLASTIC PIPES FIRE RESISTANCE EI 60-120

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

All services and openings must be sealed with Isover Protect Acrylic both sides



≥ 120MM DRYWALLS OR RIGID WALLS

Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 - 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 - 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	3.8 - 4.6mm	50 x 1.8mm (1 layer)	EI 120 C/C (E 120 C/C)
≤ Ø 40mm PP	1.8 - 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 - 6.6mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 - 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 110mm PP	2.7 - 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 - 9.5mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PP	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 - 11.9mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PP	4.9 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PVC-U & PVC-C	7.7 - 12.1mm	50 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 - 15.3mm	50 x 28.8mm (16 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

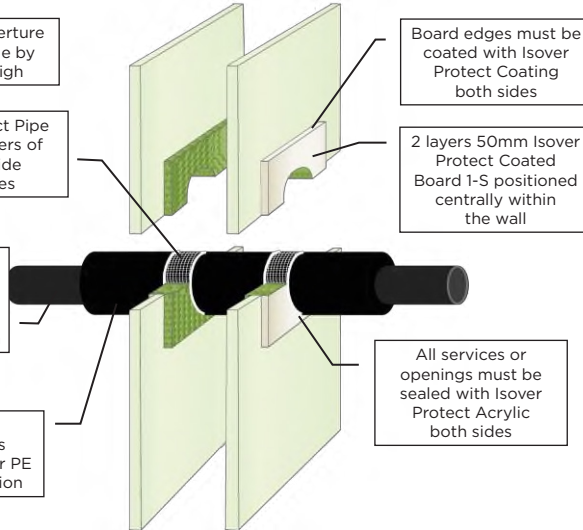
≥ 75MM DRYWALLS OR RIGID WALLS

Maximum aperture 900mm wide by 1200mm high

Isover Protect Pipe Wraps 2 layers of 50mm wide both sides

PE pipes with wall thickness 3.0-9.5mm, ≤ Ø68mm incl. insulation

9-50mm continuous elastomeric or PE foam insulation



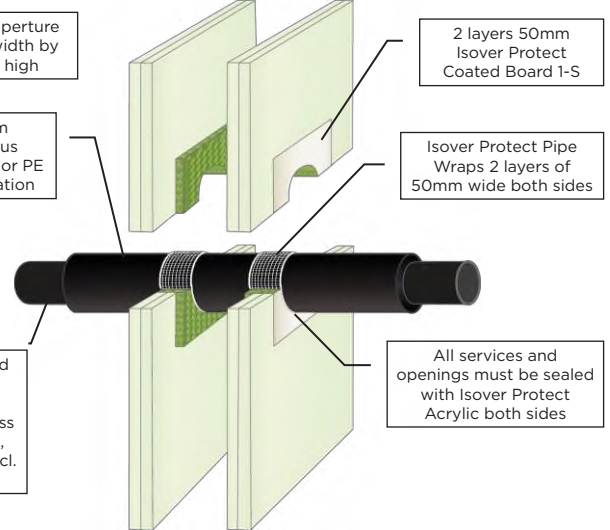
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

9-50mm continuous elastomeric or PE foam insulation

PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø68mm incl. insulation



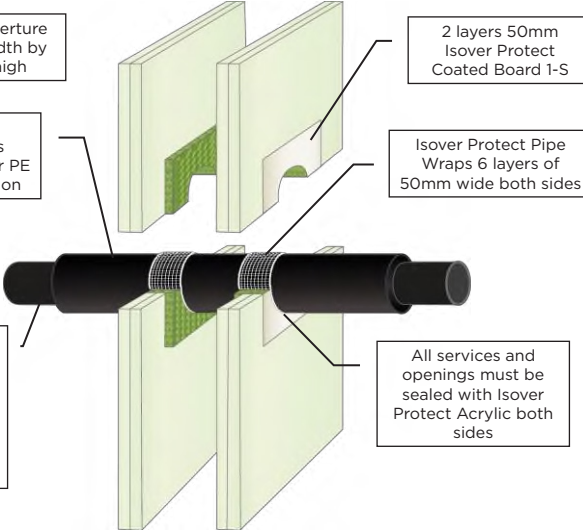
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

9-50mm continuous elastomeric or PE foam insulation

PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø178mm incl. insulation



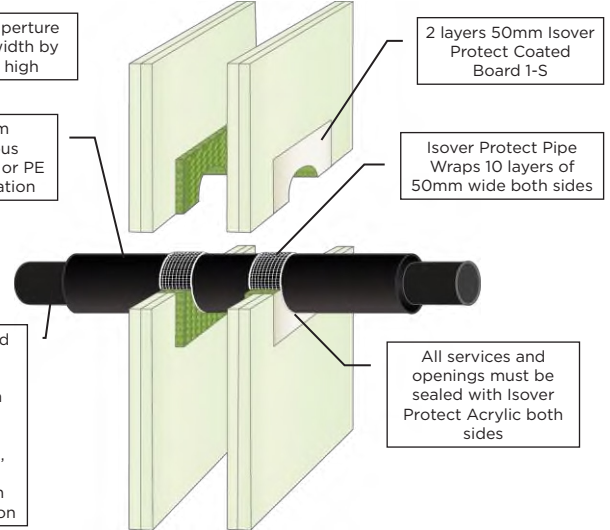
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

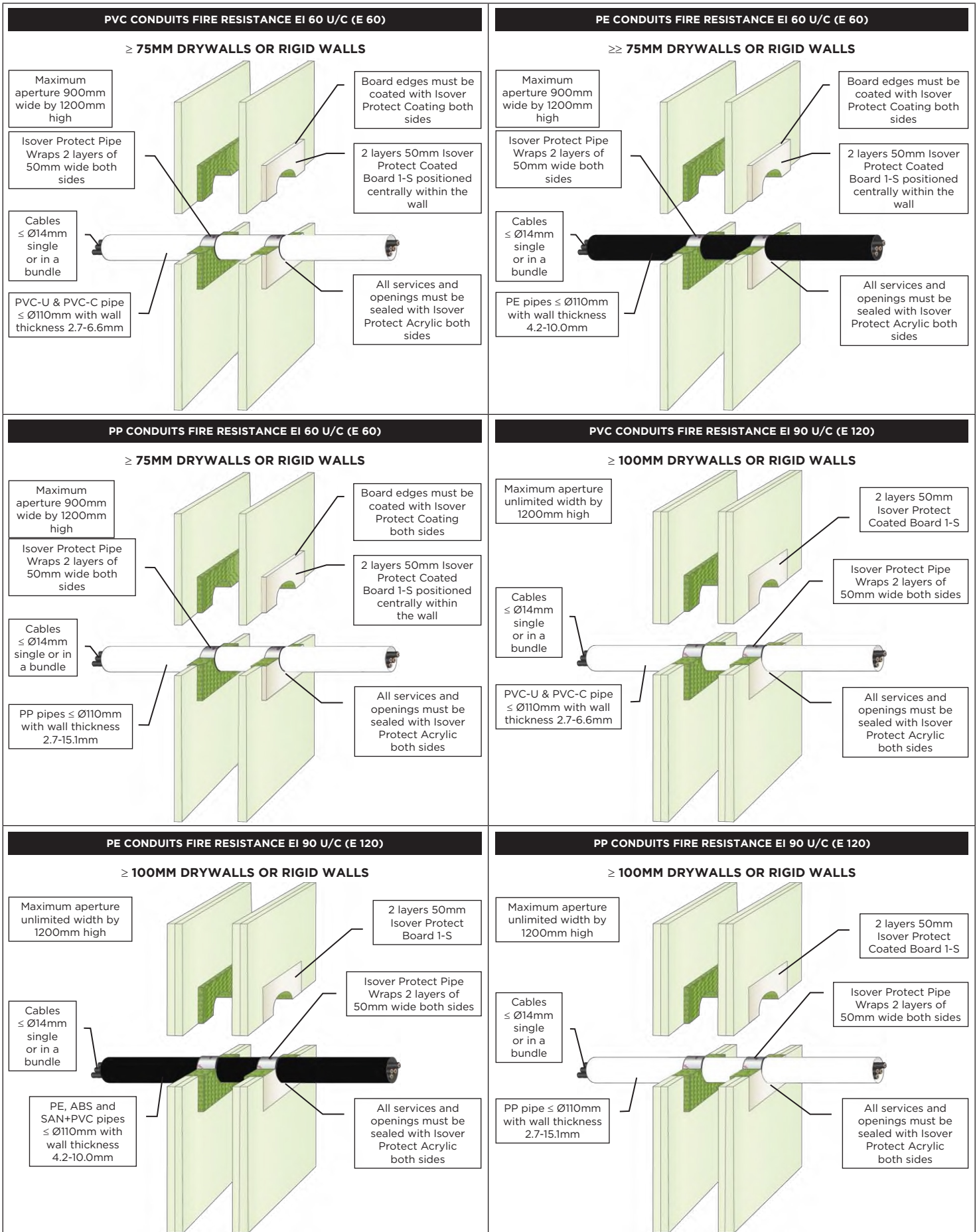
9-50mm continuous elastomeric or PE foam insulation

PE, ABS and SAN+PVC pipes ≤ Ø160mm with wall thickness 3.0-9.5mm, and ≤ Ø260mm incl. insulation

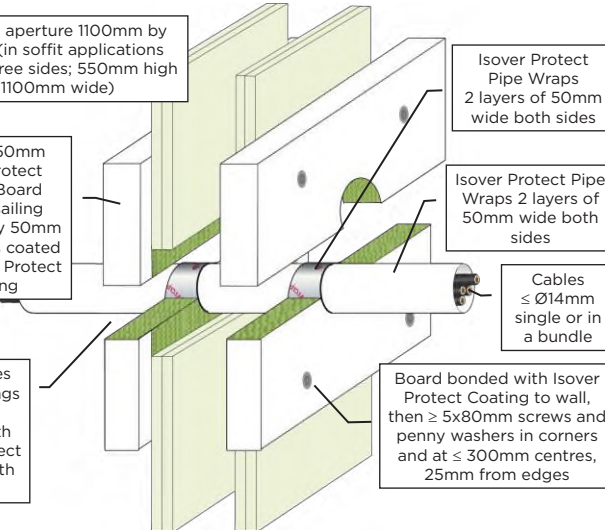
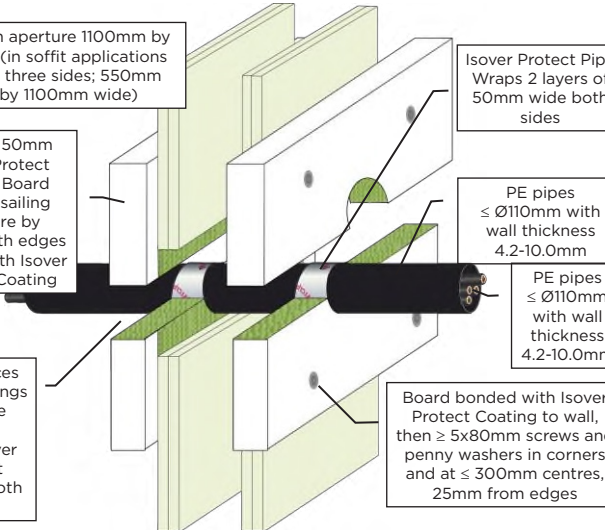
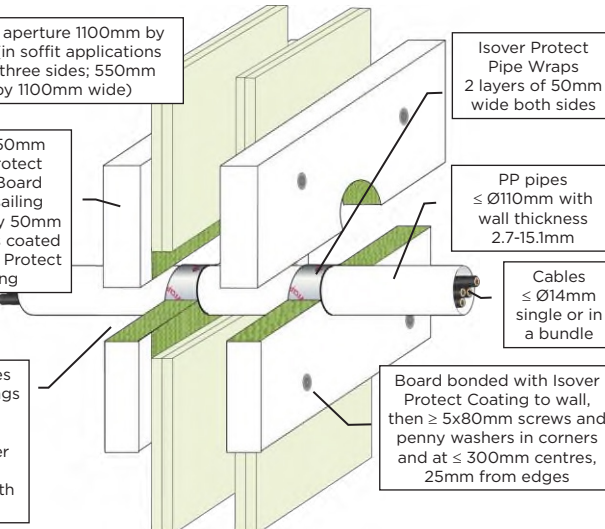
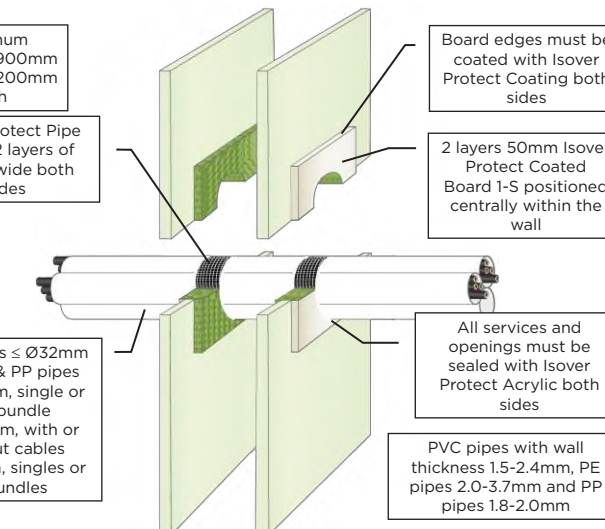
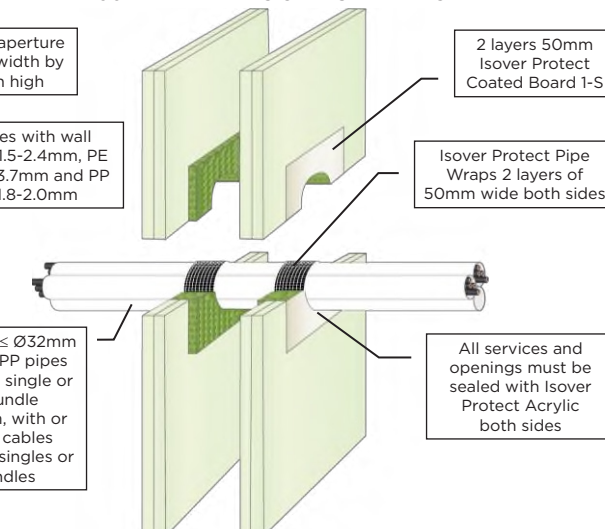
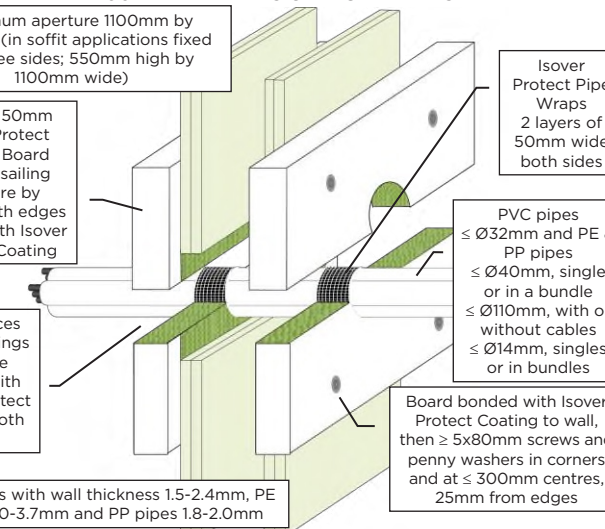


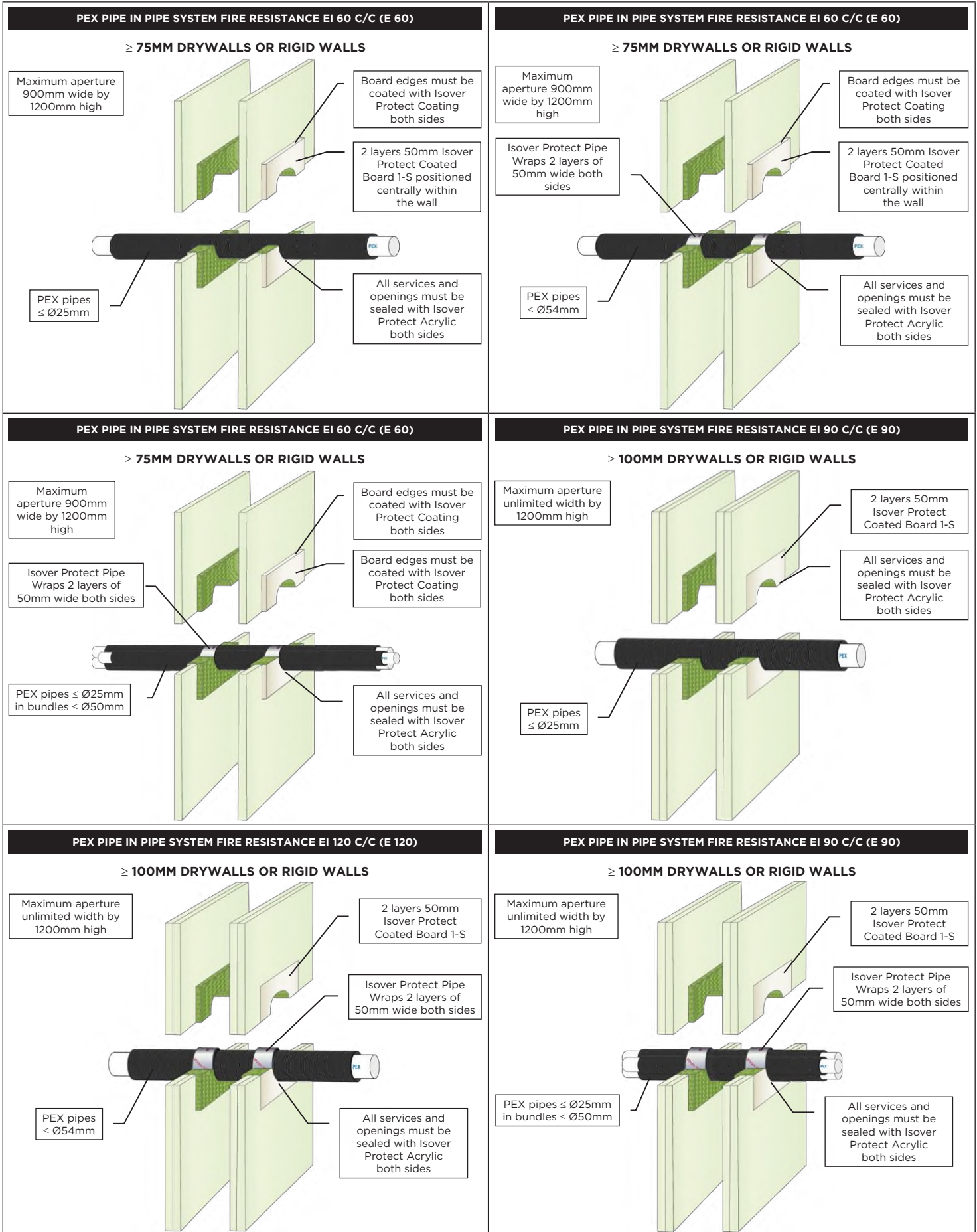
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PE pipes ≤ Ø68mm incl. insulation, with wall thickness 3.0-9.5mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>PP pipes with wall thickness 1.8-14.6mm, ≤ Ø68mm incl. insulation</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>All services or openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PP pipes with wall thickness 1.8-14.6mm, ≤ Ø68mm incl. insulation</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 6 layers of 50mm wide both sides</p> <p>PP pipes with wall thickness 1.8-14.6mm, ≤ Ø178mm incl. insulation</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>Isover Protect Pipe Wraps 10 layers of 50mm wide both sides</p> <p>PP pipes ≤ Ø160mm with wall thickness 1.8-14.6mm, and ≤ Ø260mm incl. insulation</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PP pipes ≤ Ø68mm incl. insulation, with wall thickness 1.8-14.6mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>



# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

<p><b>PVC CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Cables ≤ Ø14mm single or in a bundle</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PE CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PE pipes ≤ Ø110mm with wall thickness 4.2-10.0mm</p> <p>PE pipes ≤ Ø110mm with wall thickness 4.2-10.0mm</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>PP CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PP pipes ≤ Ø110mm with wall thickness 2.7-15.1mm</p> <p>Cables ≤ Ø14mm single or in a bundle</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PLASTIC PIPES &amp; CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)</b></p> <p><b>≥ 75MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 900mm wide by 1200mm high</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PVC pipes with wall thickness 1.5-2.4mm, PE pipes 2.0-3.7mm and PP pipes 1.8-2.0mm</p> 
<p><b>PLASTIC PIPES &amp; CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high</p> <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>PVC pipes with wall thickness 1.5-2.4mm, PE pipes 2.0-3.7mm and PP pipes 1.8-2.0mm</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PVC pipes ≤ Ø32mm and PE &amp; PP pipes ≤ Ø40mm, single or in a bundle ≤ Ø110mm, with or without cables ≤ Ø14mm, singles or in bundles</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PLASTIC PIPES &amp; CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)</b></p> <p><b>≥ 100MM DRYWALLS OR RIGID WALLS</b></p> <p>Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)</p> <p>2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PVC pipes ≤ Ø32mm and PE &amp; PP pipes ≤ Ø40mm, single or in a bundle ≤ Ø110mm, with or without cables ≤ Ø14mm, singles or in bundles</p> <p>Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>PVC pipes with wall thickness 1.5-2.4mm, PE pipes 2.0-3.7mm and PP pipes 1.8-2.0mm</p> 



# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

**PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

PEX pipes ≤ Ø25mm

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

All services and openings must be sealed with Isover Protect Acrylic both sides

**PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

Isover Protect Pipe Wraps 2 layers of 50mm wide both sides

PEX pipes ≤ Ø54mm

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

All services and openings must be sealed with Isover Protect Acrylic both sides

**PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

Isover Protect Pipe Wraps 2 layers of 50mm wide both sides

PEX pipes ≤ Ø25mm in bundles ≤ Ø50mm

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

All services and openings must be sealed with Isover Protect Acrylic both sides

**COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 60**

**≥ 75MM DRYWALLS OR RIGID WALLS**

Maximum aperture 900mm wide by 1200mm high

Board edges must be coated with Isover Protect Coating both sides

Isover Protect Pipe Wraps to both sides

2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall

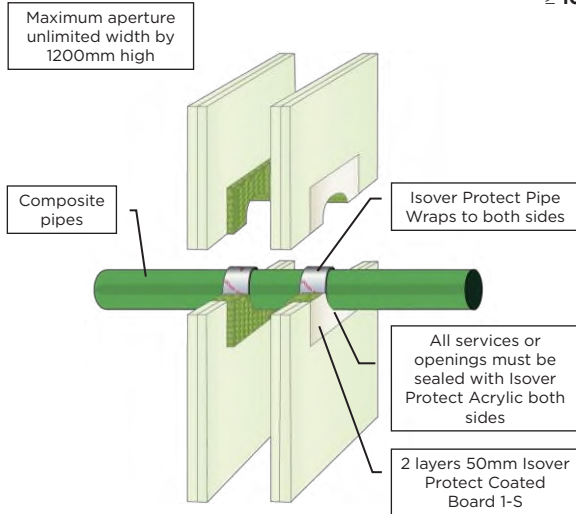
Composite pipes

All services or openings must be sealed with Isover Protect Acrylic both sides

Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 60 C/C (E 60 C/C)
Ø 40mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
Ø 50mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
Ø 63mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
Ø 75mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
Ø 90mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)

COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 90

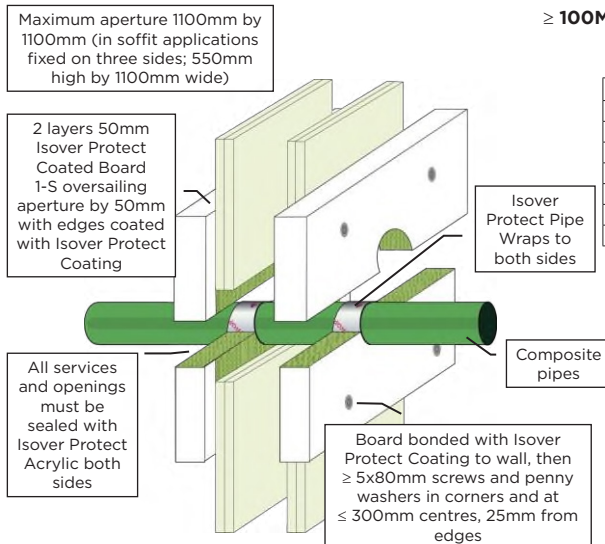
≥ 100MM DRYWALLS OR RIGID WALLS



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 90 C/C (E 120 C/C)
Ø 40mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 50mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 63mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 75mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 90mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)

COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 90

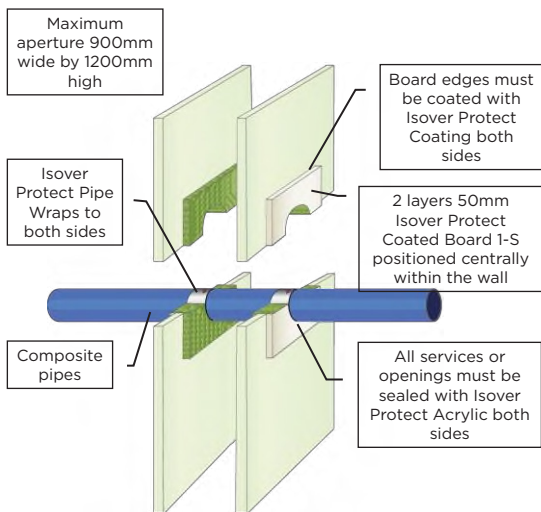
≥ 100MM DRYWALLS OR RIGID WALLS



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 90 C/C (E 120 C/C)
Ø 40mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 50mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 63mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 75mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 90mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)

COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS



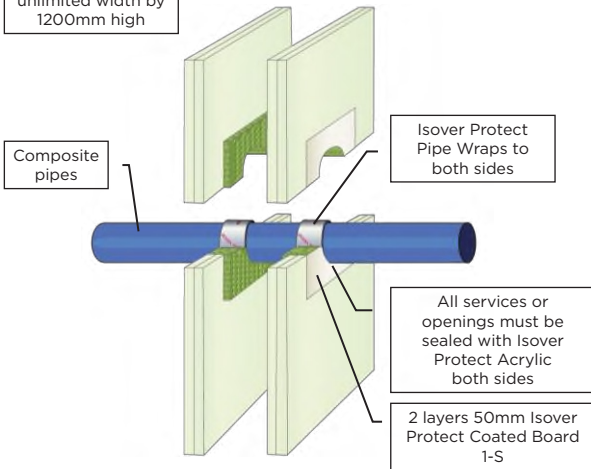
Services	Isover Protect Pipe Wrap	Classification
Ø 32mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 40mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 C/U (E 60 C/U)
Ø 90mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 C/U (E 60 C/U)
Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 C/U (E 60 C/U)
Ø 125mm BluePower pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

## COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 90

### ≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

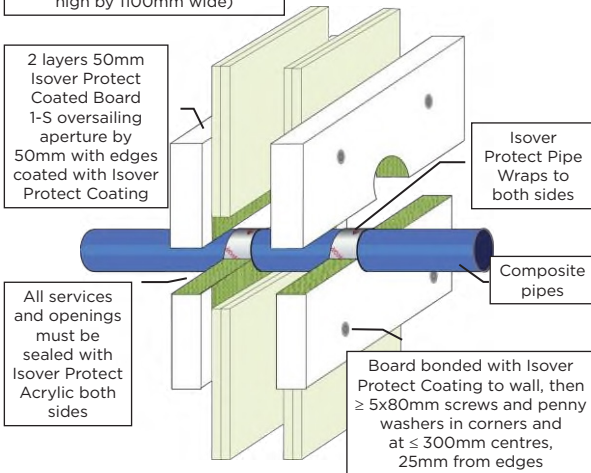


Services	Isover Protect Pipe Wrap	Classification
Ø 32mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 40mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 90mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 125mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 90

### ≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

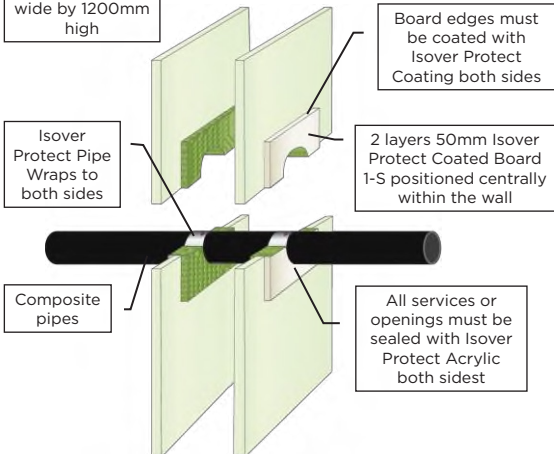


Services	Isover Protect Pipe Wrap	Classification
Ø 32mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 40mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 90mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 125mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 60

### ≥ 75MM DRYWALLS OR RIGID WALLS

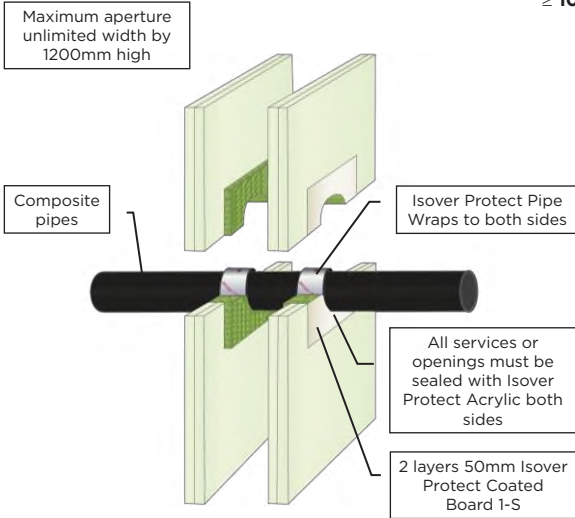
Maximum aperture 900mm wide by 1200mm high



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 40mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 90mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)

COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 90-120

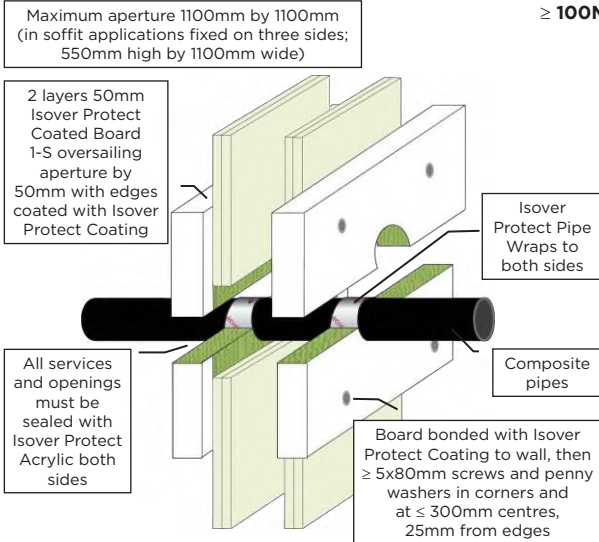
≥ 100MM DRYWALLS OR RIGID WALLS



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 90-120

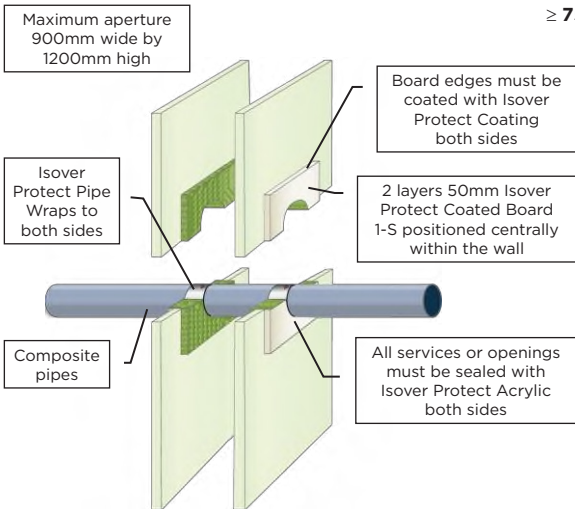
≥ 100MM DRYWALLS OR RIGID WALLS



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm Geberit Silent-PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS



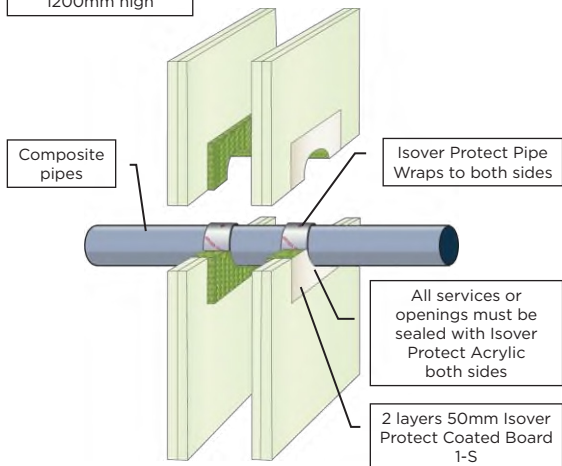
Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 40mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 90mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)

COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

Maximum aperture unlimited width by 1200mm high

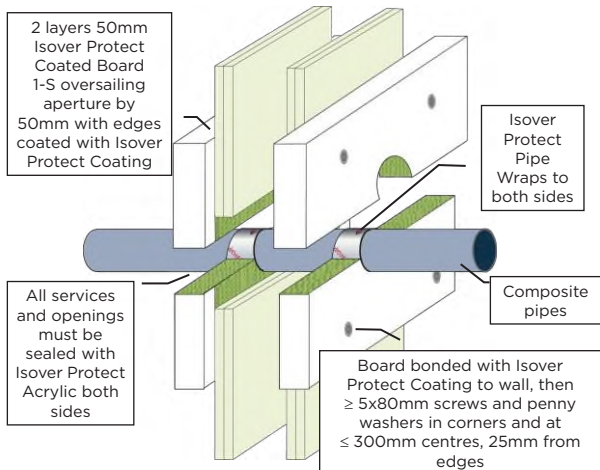


COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 120

≥ 100MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

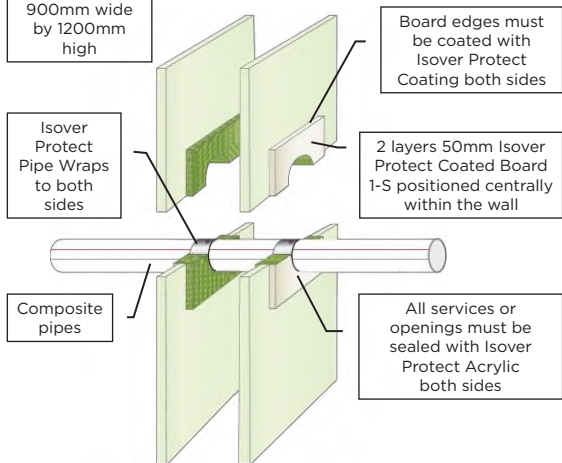


COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 40mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 90mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)

Maximum aperture 900mm wide by 1200mm high



**COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 120**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture unlimited width by 1200mm high

Composite pipes

Isover Protect Pipe Wraps to both sides

All services or openings must be sealed with Isover Protect Acrylic both sides

2 layers 50mm Isover Protect Coated Board 1-S

Services	Isover Protect Pipe Wrap	Classification
Ø 40mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

**COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 120**

**≥ 100MM DRYWALLS OR RIGID WALLS**

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

2 layers 50mm Isover Protect Coated Board 1-S oversailing aperture by 50mm with edges coated with Isover Protect Coating

Isover Protect Pipe Wraps to both sides

Composite pipes

All services and openings must be sealed with Isover Protect Acrylic both sides

Board bonded with Isover Protect Coating to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

Services	Isover Protect Pipe Wrap	Classification
Ø 40mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

**COMPOSITE UPONOR DECIBEL PIPES FIRE RESISTANCE EI 60**

**≥ 75MM DRYWALLS OR RIGID WALLS**

Maximum aperture 900mm wide by 1200mm high

Isover Protect Pipe Wraps to both sides

Board edges must be coated with Isover Protect Coating both sides

2 layers 50mm Isover Protect Coated Board 1-S positioned centrally within the wall

Composite pipes

All services or openings must be sealed with Isover Protect Acrylic both sides

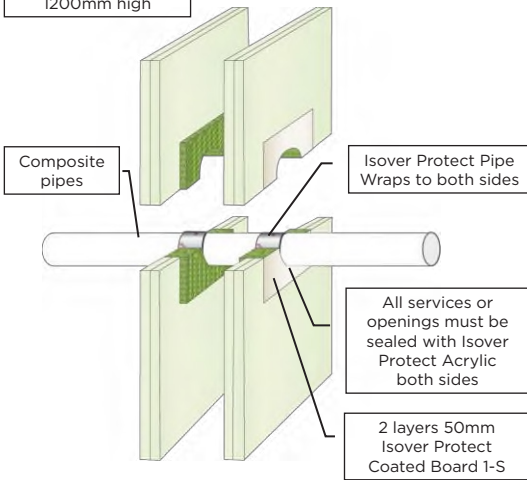
Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

## COMPOSITE UPONOR DECIBEL PLASTIC PIPES FIRE RESISTANCE EI 90

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

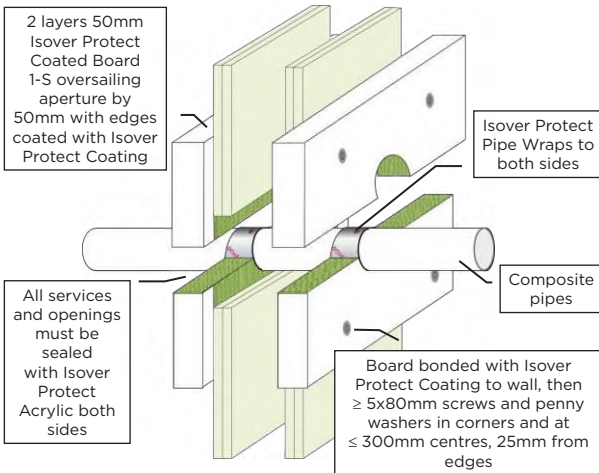


Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE UPONOR DECIBEL PLASTIC PIPES FIRE RESISTANCE EI 90

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

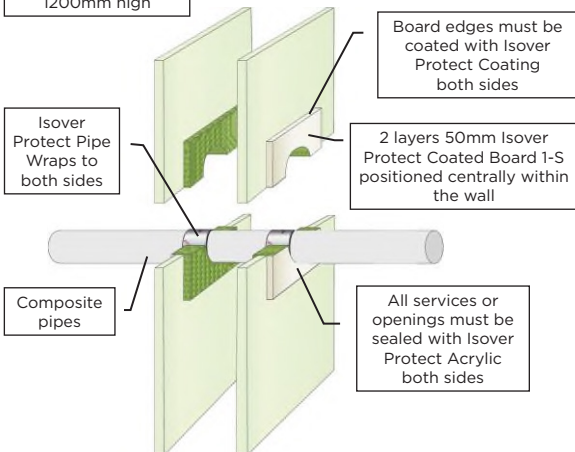


Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS

Maximum aperture 900mm wide by 1200mm high



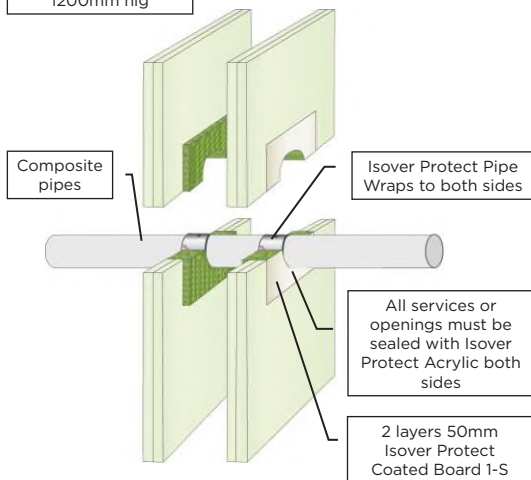
Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 75mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 90mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
Ø 160mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
Ø 200mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)

COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

≥ 100MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 75mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 90mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 110mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 125mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 160mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 200mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)

Maximum aperture unlimited width by 1200mm high

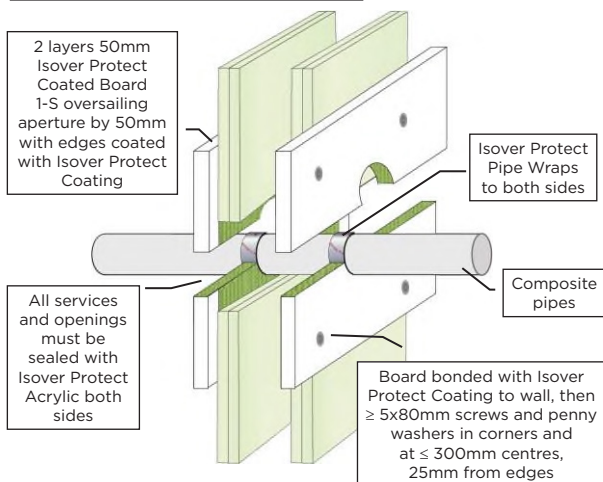


COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

≥ 100MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 75mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 90mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 110mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 125mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 160mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 200mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)

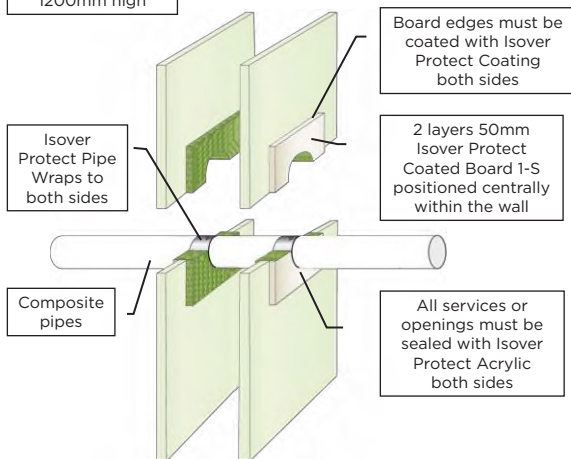


COMPOSITE WAVIN SITECH PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS

Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 40mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
Ø 75mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 90mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)

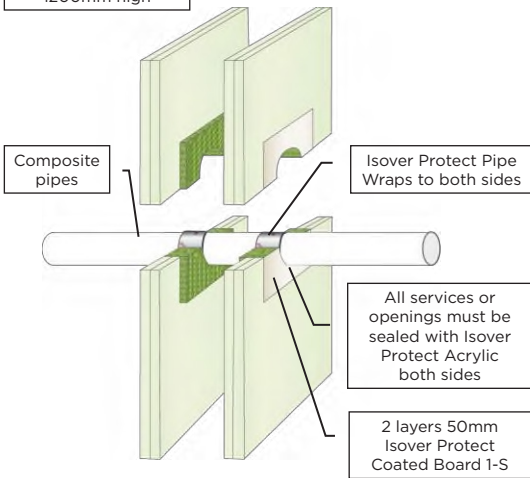
Maximum aperture 900mm wide by 1200mm high



COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 60-90

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture unlimited width by 1200mm high

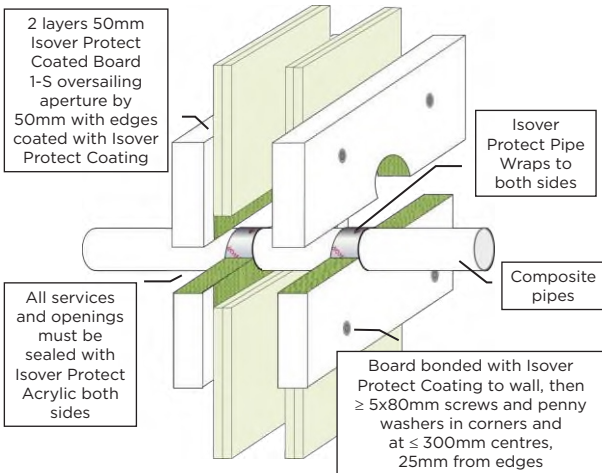


Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 40mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 75mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 90mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)

COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 60-90

≥ 100MM DRYWALLS OR RIGID WALLS

Maximum aperture 1100mm by 1100mm (in soffit applications fixed on three sides; 550mm high by 1100mm wide)



Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 40mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 75mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 90mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)

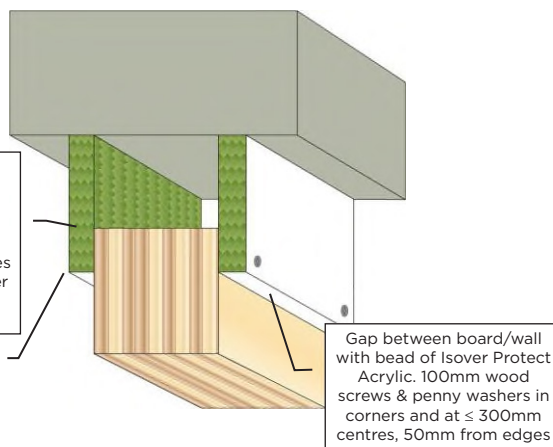
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E120)

≥ 100MM TIMBER WALLS

Maximum 600mm wide horizontal joints within a vertical construction or abutting a floor, ceiling or roof

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

All gaps must be sealed with Isover Protect Acrylic both sides



VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

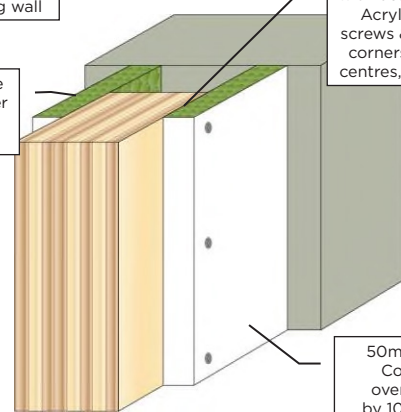
≥ 100MM TIMBER WALLS

Maximum 600mm wide vertical joints within a vertical construction or abutting a facing wall

All gaps must be sealed with Isover Protect Acrylic both sides

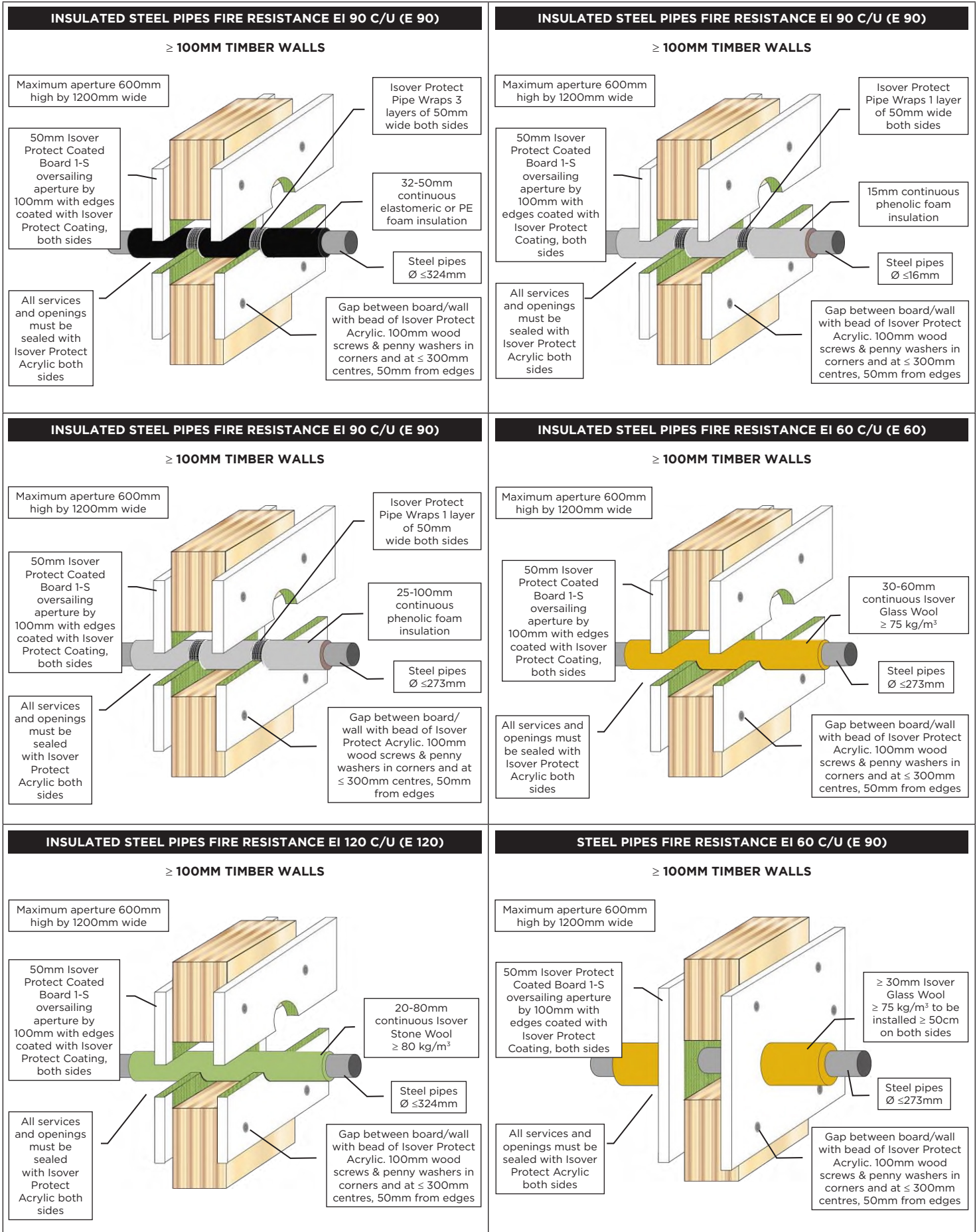
Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

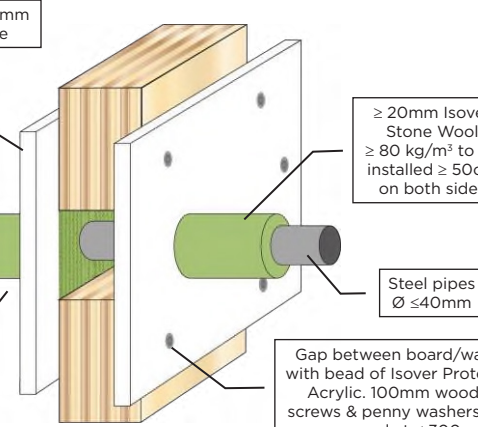
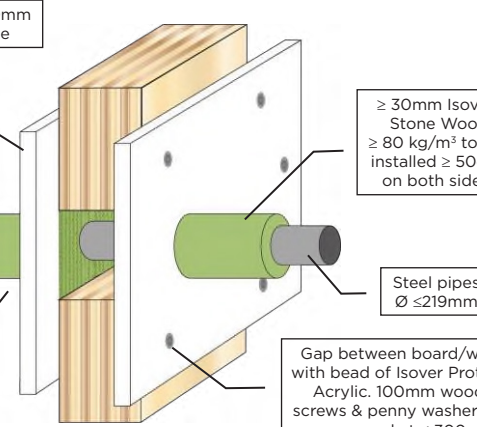
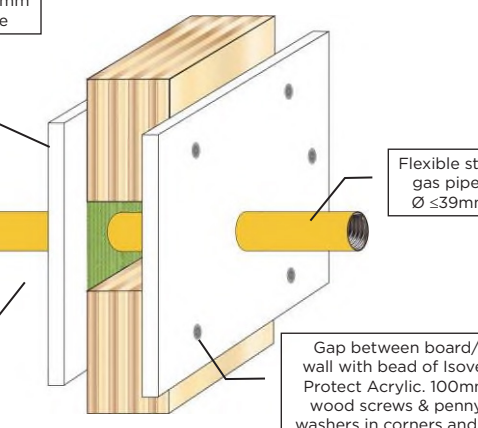
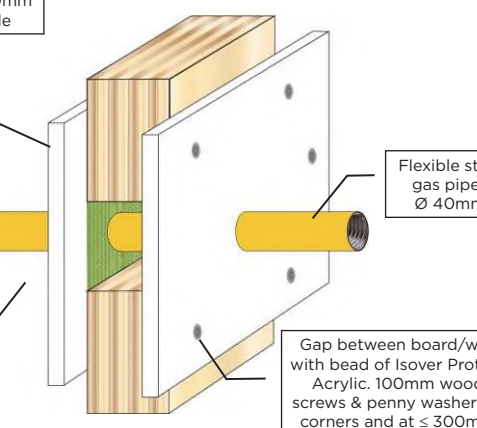
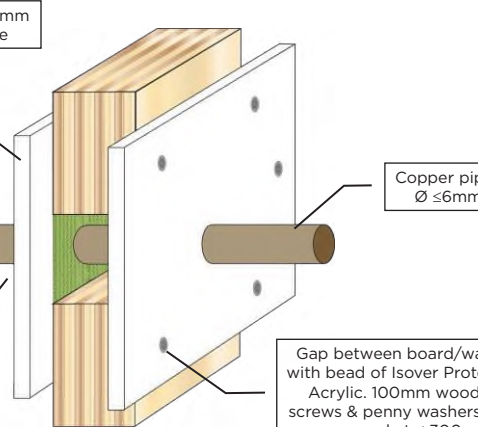
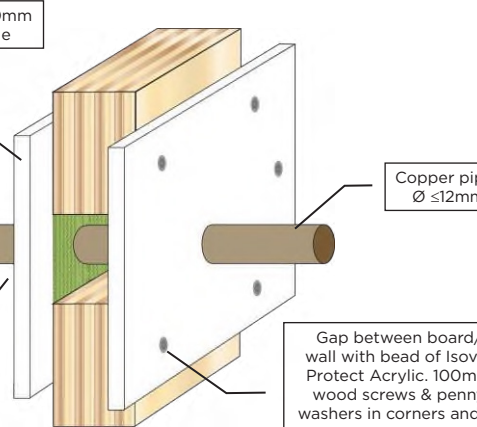
50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

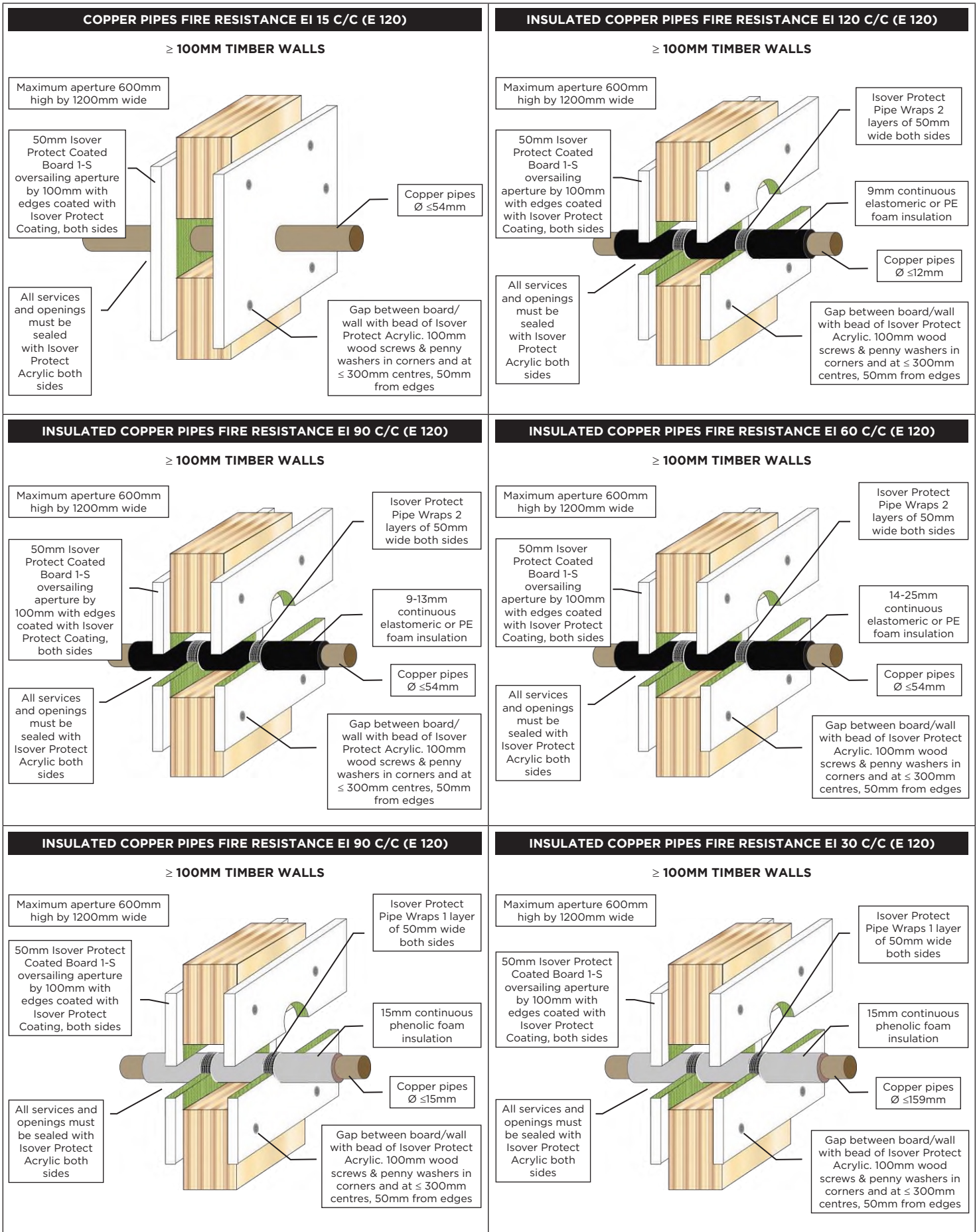


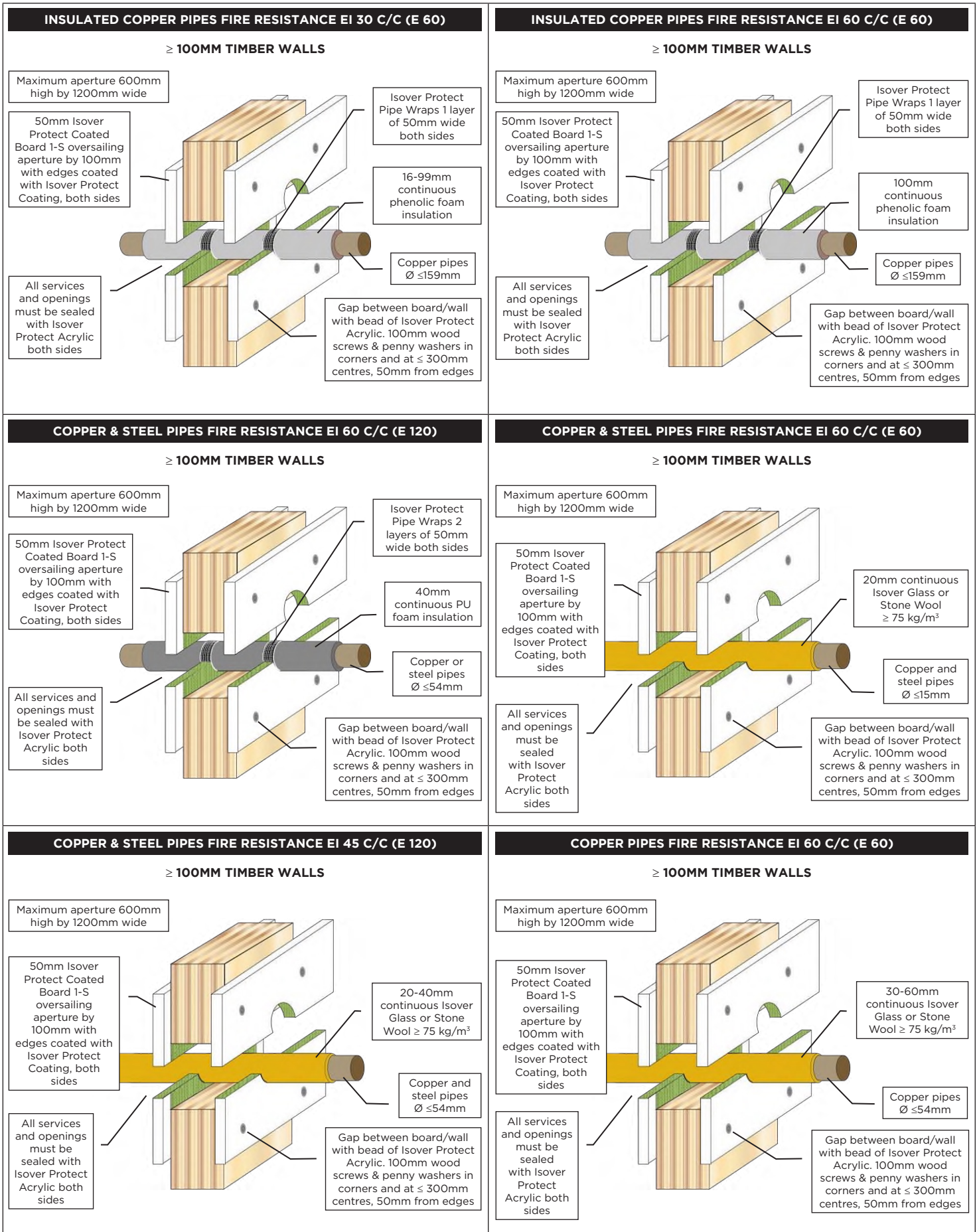
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Technical Drawings Coating, both sides</p> <p>Cables ≤ Ø50mm single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Technical Drawings Coating, both sides</p> <p>Cables ≤ Ø80mm single and bundled, and steel and plastic conduits ≤ Ø16mm with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>BUS-BARS FIRE RESISTANCE EI 20 (E 90)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>BUS-BARS FIRE RESISTANCE EI 90 (E 90)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Aluminium bus-bars ≤ 592 x 150mm and cross section ≤ 5275mm<sup>2</sup></p> <p>1 layer 50mm Isover Protect Coated Board 1-S ≥ 500mm on both sides, bonded to the fire seal with Isover Protect Adhesive and fixed with 3 pcs 80mm pig-tails in the corners 150mm apart</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Steel pipes ≤ Ø22mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 30 C/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Steel pipes ≤ Ø63mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>

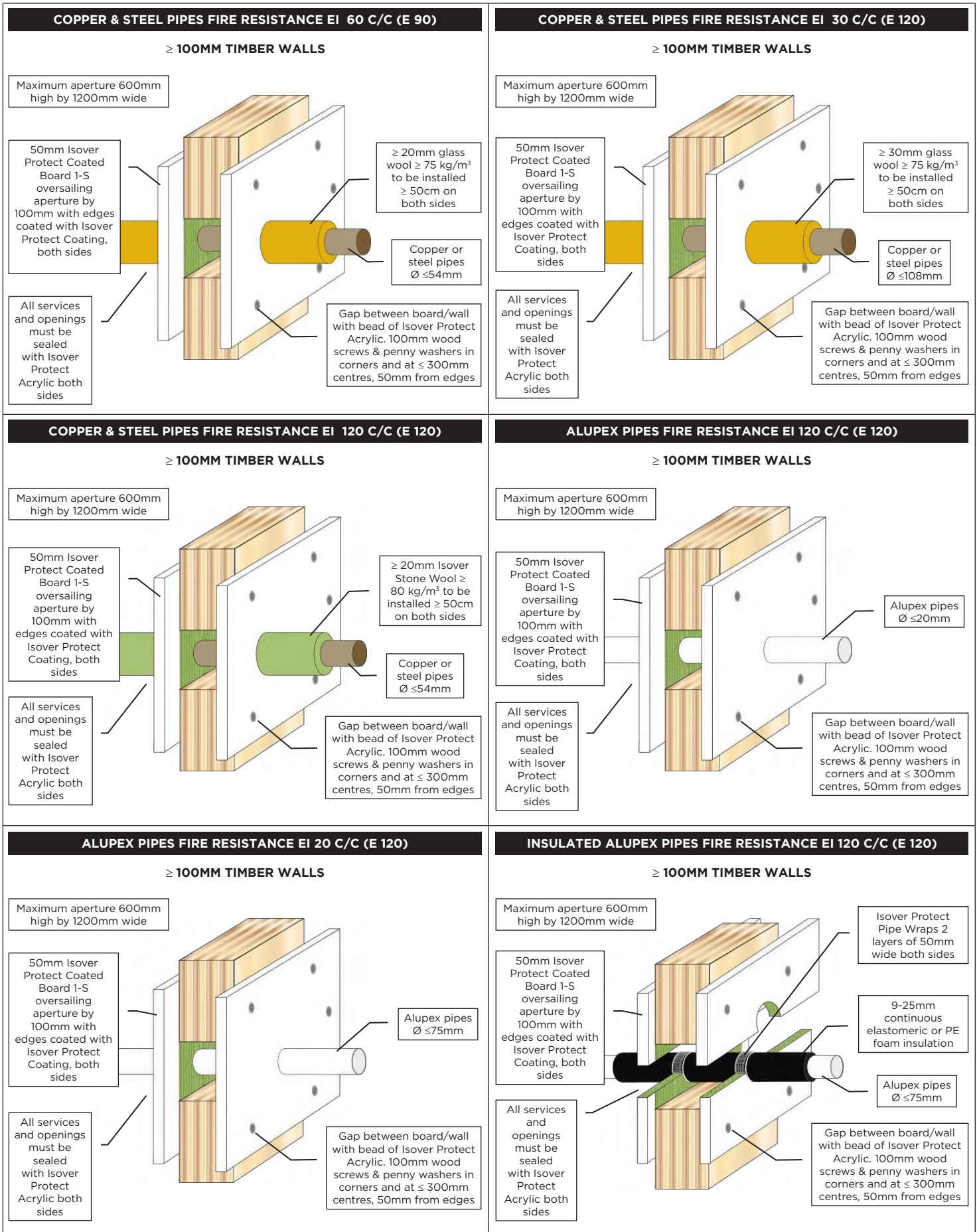
<p><b>STEEL PIPES FIRE RESISTANCE EI 20 C/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Steel pipes ≤ Ø324mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 2300µ WFT Isover Protect Service Coat</p> <p>Steel pipes Ø ≤ 63mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 1150µ WFT Isover Protect Service Coat</p> <p>Steel pipes Ø ≤ 63mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Pipes must be coated 200mm each side with 1500µ WFT Isover Protect Service Coat</p> <p>Steel pipes Ø ≤ 114mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 120 U/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Isover Protect Pipe Wraps 1 layer of 50mm wide both sides</p> <p>13mm continuous elastomeric or PE foam insulation</p> <p>Steel pipes Ø ≤ 40mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>13-32mm continuous elastomeric or PE foam insulation</p> <p>Steel pipes Ø ≤ 165mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>



<p><b>STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>≥ 20mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Steel pipes Ø ≤ 40mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>≥ 30mm Isover Stone Wool ≥ 80 kg/m<sup>3</sup> to be installed ≥ 50cm on both sides</p> <p>Steel pipes Ø ≤ 219mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>GAS PIPES FIRE RESISTANCE EI 60 C/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Flexible steel gas pipes Ø ≤ 39mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>GAS PIPES FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Flexible steel gas pipes Ø 40mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Copper pipes Ø ≤ 6mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Copper pipes Ø ≤ 12mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 







# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

**INSULATED ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 120)**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

25-60mm continuous Isover Glass or Stone Wool  $\geq 75 \text{ kg/m}^3$

Aluplex pipes  $\varnothing \leq 75\text{mm}$

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at  $\leq 300\text{mm}$  centres, 50mm from edges

**ALUPEX PIPES FIRE RESISTANCE EI 30 C/C (E 30)**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

$\geq 25\text{mm}$  Isover Glass Wool  $\geq 75 \text{ kg/m}^3$  to be installed  $\geq 50\text{cm}$  on both sides

Aluplex pipes  $\varnothing \leq 75\text{mm}$

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at  $\leq 300\text{mm}$  centres, 50mm from edges

**ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

$\geq 20\text{mm}$  Isover Stone Wool  $\geq 80 \text{ kg/m}^3$  to be installed  $\geq 50\text{cm}$  on both sides

Aluplex pipes  $\varnothing \leq 16\text{mm}$

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at  $\leq 300\text{mm}$  centres, 50mm from edges

**ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

$\geq 20\text{mm}$  Isover Stone Wool  $\geq 80 \text{ kg/m}^3$  to be installed  $\geq 50\text{cm}$  on both sides

Aluplex pipes  $\varnothing \leq 75\text{mm}$

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at  $\leq 300\text{mm}$  centres, 50mm from edges

**INSULATED METAL PIPES WITH ISOVER PROTECT GRAPHITE FIRE RESISTANCE EI 60-120**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

Metal pipes with no minimum distance in-between

Isover Stone Wool depth  $\geq 25\text{mm}$ , density  $\geq 33\text{kg/m}^3$  or similar on both sides

Isover Protect Graphite depth  $\geq 25\text{mm}$  on both sides with seal width 5-10mm

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at  $\leq 300\text{mm}$  centres, 50mm from edges

Services	Pipe Insulation	Classification
$\varnothing 6\text{mm}$ steel or copper pipes	9mm elastomeric insulation class $\geq \text{B-s3}$ , d0	EI 120 C/C (E 120 C/C)
$\varnothing \leq 18\text{mm}$ steel or copper pipes	9mm elastomeric insulation class $\geq \text{B-s3}$ , d0	EI 90 C/C (E 120 C/C)
$\varnothing \leq 54\text{mm}$ steel or copper pipes	19mm elastomeric insulation class $\geq \text{B-s3}$ , d0	EI 90 C/C (E 120 C/C)
$\varnothing \leq 54\text{mm}$ steel or copper pipes	25mm phenolic foam insulation	EI 60 C/C (E 120 C/C)
$\varnothing 14\text{mm}$ Aluplex pipes	6mm PE foam insulation	EI 60 C/C (E 90 C/C)

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

### PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

PVC-U & PVC-C pipe ≤ Ø32mm with wall thickness 1.0-2.4mm

PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0-3.0mm

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

### PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0-3.0mm

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

### PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

PP pipe ≤ Ø32mm with wall thickness 1.8-2.2mm

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

### PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

PP pipe ≤ Ø32mm with wall thickness 2.3-4.4mm

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

### PLASTIC PIPES FIRE RESISTANCE EI 60-120

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides

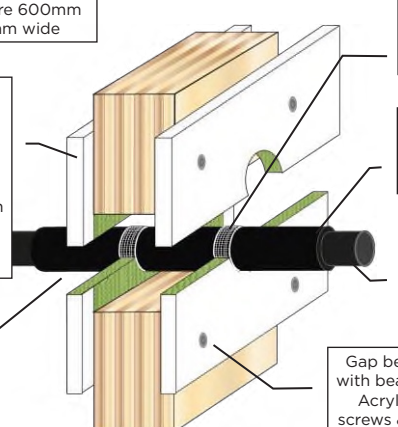
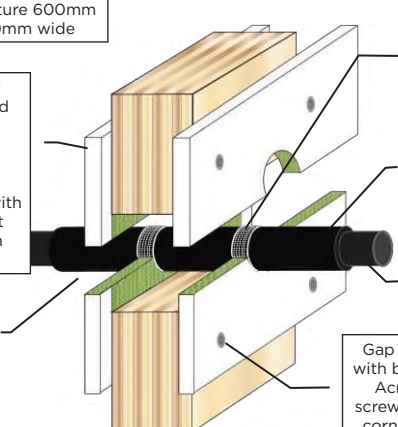
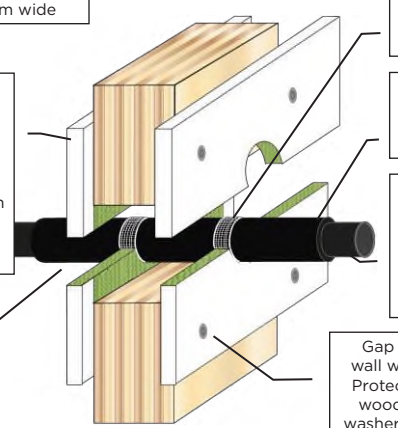
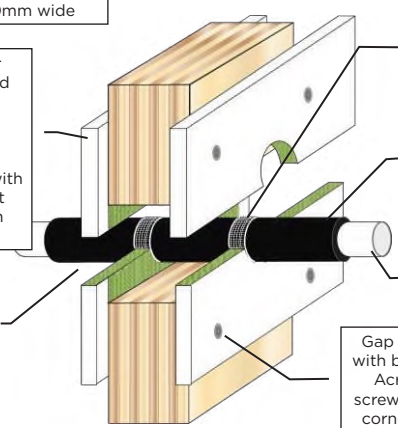
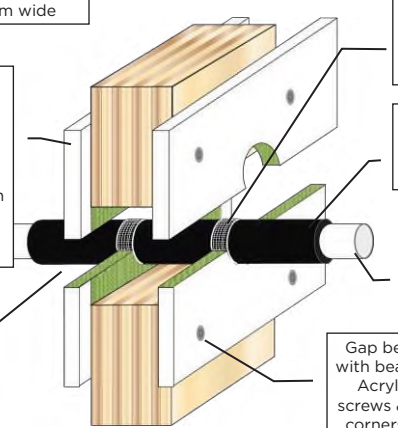
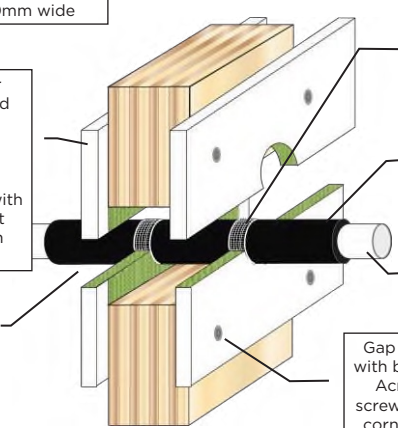
Isover Protect Pipe Wraps to both sides

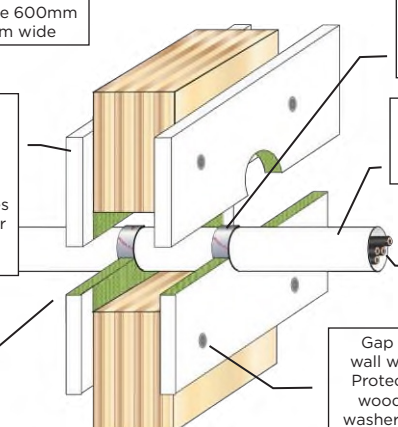
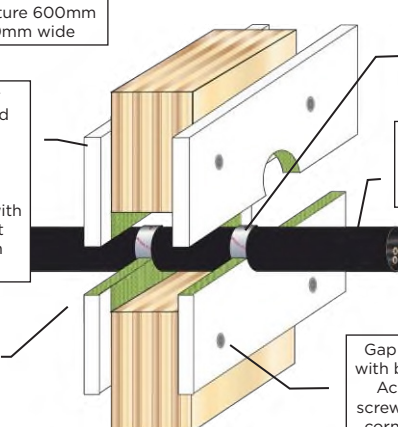
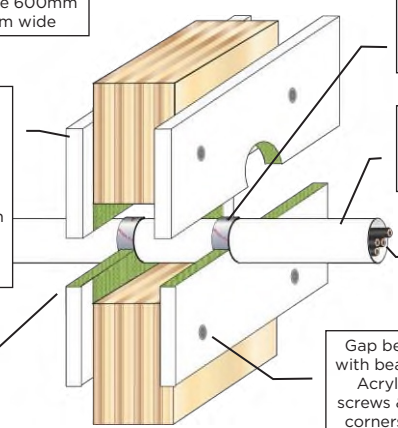
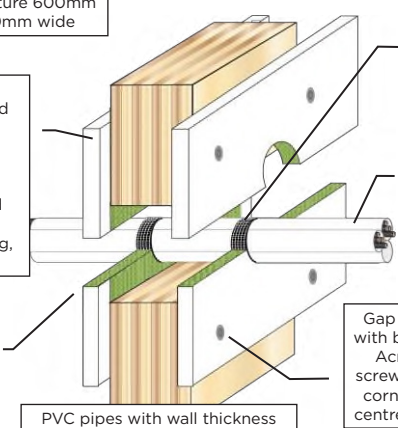
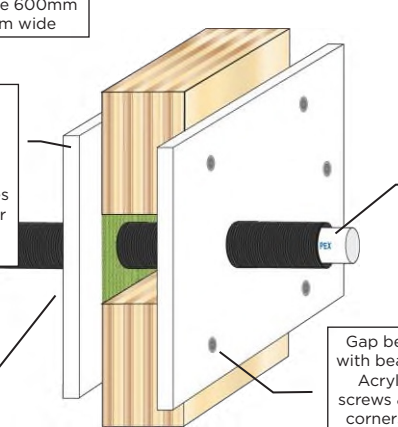
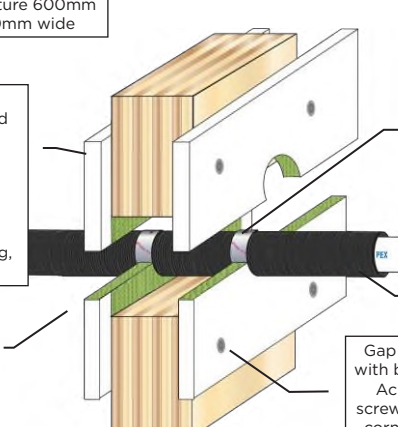
Plastic pipes

All services and openings must be sealed with Isover Protect Acrylic both sides

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
Ø ≤40mm PVC-U og PVC-C	1.9 - 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤40mm PE, ABS og SAN+PVC	2.4 - 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤40mm PP	1.8 - 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
Ø ≤110mm PVC-U og PVC-C	2.7 - 6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø ≤110mm PE, ABS og SAN+PVC	4.2 - 10.0mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø ≤110mm PP	2.7 - 15.1mm	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø ≤125mm PVC-U og PVC-C	3.7 - 7.4mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
Ø ≤125mm PE, ABS og SAN+PVC	4.8 - 12.0mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
Ø ≤125mm PP	3.1 - 17.1mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
Ø ≤160mm PVC-U og PVC-C	4.0 - 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
Ø ≤160mm PE, ABS og SAN+PVC	4.9 - 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
Ø ≤160mm PP	4.9 - 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
Ø ≤200mm PVC-U og PVC-C	4.9 - 11.9mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø ≤200mm PE, ABS og SAN+PVC	6.2 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø ≤200mm PP	4.9 - 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø ≤315mm PVC-U og PVC-C	7.7 - 12.1mm	50 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
Ø ≤315mm PE, ABS og SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
Ø ≤315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
Ø ≤400mm PVC-U og PVC-C	9.8 - 15.3mm	50 x 28.8mm (16 layers)	EI 90 C/C (E 90 C/C)
Ø ≤400mm PE, ABS og SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

<p><b>INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø68mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 6 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø178mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 10 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PE, ABS &amp; SAN+PVC pipes ≤ Ø160mm with wall thickness 3.0-9.5mm, and ≤ Ø260mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PP pipes with wall thickness 1.8-14.6mm, ≤ Ø68mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>
<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 6 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PP pipes with wall thickness 1.8-14.6mm, ≤ Ø178mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>	<p><b>INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)</b></p> <p><b>≥ 100MM TIMBER WALLS</b></p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>  <p>Isover Protect Pipe Wraps 10 layers of 50mm wide both sides</p> <p>9-50mm continuous elastomeric or PE foam insulation</p> <p>PP pipes ≤ Ø160mm with wall thickness 1.8-14.6mm, and ≤ Ø260mm incl. insulation</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p>

<p><b>PVC CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PVC-U &amp; PVC-C pipe ≤ Ø110mm with wall thickness 2.7-6.6mm</p> <p>Cables ≤ Ø14mm single or in a bundle</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PE CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PE, ABS and SAN+ PVC pipes ≤ Ø110mm with wall thickness 4.2-10.0mm</p> <p>Cables ≤ Ø14mm single or in a bundle</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>PP CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PP pipe ≤ Ø110mm with wall thickness 2.7-15.1mm</p> <p>Cables ≤ Ø14mm single or in a bundle</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PLASTIC PIPES &amp; CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PVC pipes ≤ Ø32mm and PE &amp; PP pipes ≤ Ø40mm, single or in a bundle ≤ Ø110mm, with or without cables ≤ Ø14mm, singles or in bundles</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>PVC pipes with wall thickness 1.5-2.4mm, PE pipes 2.0-3.7mm and PP pipes 1.8-2.0mm</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>PEX pipes Ø ≤ 25mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 	<p><b>PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)</b></p> <p>≥ 100MM TIMBER WALLS</p> <p>Maximum aperture 600mm high by 1200mm wide</p> <p>50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides</p> <p>Isover Protect Pipe Wraps 2 layers of 50mm wide both sides</p> <p>PEX pipes Ø ≤ 54mm</p> <p>Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws &amp; penny washers in corners and at ≤ 300mm centres, 50mm from edges</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 

# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

**PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isov Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isov Protect Coating, both sides

Isov Protect Pipe Wraps 2 layers of 50mm wide both sides

PEX pipes  
Ø ≤ 25mm in bundles  
Ø ≤ 50mm

All services and openings must be sealed with Isov Protect Acrylic both sides

Gap between board/wall with bead of Isov Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

**COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 90**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isov Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isov Protect Coating, both sides

Isov Protect Pipe Wraps to both sides

Composite pipes

All services and openings must be sealed with Isov Protect Acrylic both sides

Gap between board/wall with bead of Isov Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

Services	Isov Protect Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 90 C/C (E 120 C/C)
Ø 40mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 50mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 63mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 75mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 90mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)

**COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 90**

**≥ 100MM TIMBER WALLS**

Maximum aperture 600mm high by 1200mm wide

50mm Isov Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isov Protect Coating, both sides

Isov Protect Pipe Wraps to both sides

Composite pipes

All services and openings must be sealed with Isov Protect Acrylic both sides

Gap between board/wall with bead of Isov Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

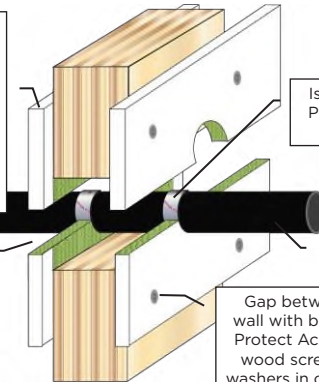
Services	Isov Protect Pipe Wrap	Classification
Ø 32mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 40mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 50mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 90mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 110mm Bluepower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
Ø 125mm Bluepower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm Bluepower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

**COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 90-120**

≥ 100MM TIMBER WALLS

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



Isover Protect Pipe Wraps to both sides

All services and openings must be sealed with Isover Protect Acrylic both sides

Composite pipes

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

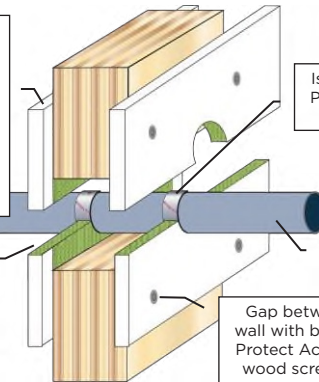
Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Geberit Silent PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
Ø 160mm Geberit Silent PP pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)

**COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 120**

≥ 100MM TIMBER WALLS

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



Isover Protect Pipe Wraps to both sides

All services and openings must be sealed with Isover Protect Acrylic both sides

Composite pipes

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

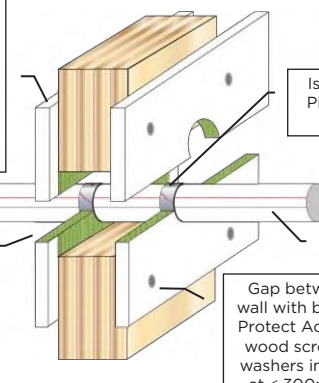
Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 40mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

**COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 120**

≥ 100MM TIMBER WALLS

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



Isover Protect Pipe Wraps to both sides

All services and openings must be sealed with Isover Protect Acrylic both sides

Composite pipes

Gap between board/wall with bead of Isover Protect Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

Services	Isover Protect Pipe Wrap	Classification
Ø 40mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
Ø 75mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 90mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)

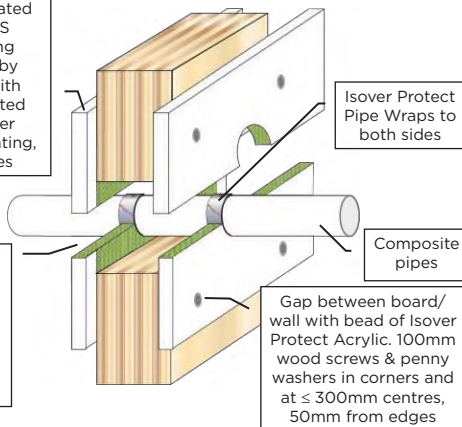
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

## COMPOSITE UPONOR DECIBEL PIPES FIRE RESISTANCE EI 90

≥ 100MM TIMBER WALLS

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



All services and openings must be sealed with Isover Protect Acrylic both sides

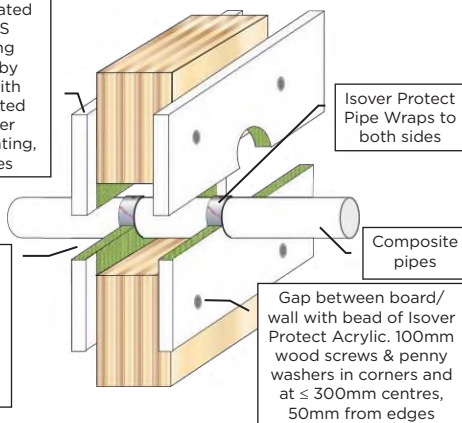
Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

≥ 100MM TIMBER WALLS

Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



All services and openings must be sealed with Isover Protect Acrylic both sides

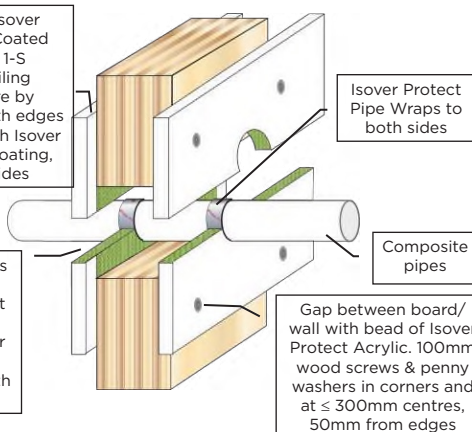
Services	Isover Protect Pipe Wrap	Classification
Ø 50mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 75mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 90mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 110mm Wavin AS+ pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
Ø 125mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 160mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
Ø 200mm Wavin AS+ pipes	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)

## COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 60-90

≥ 100MM TIMBER WALLS

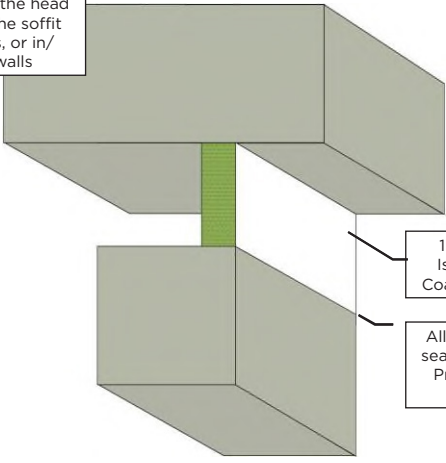
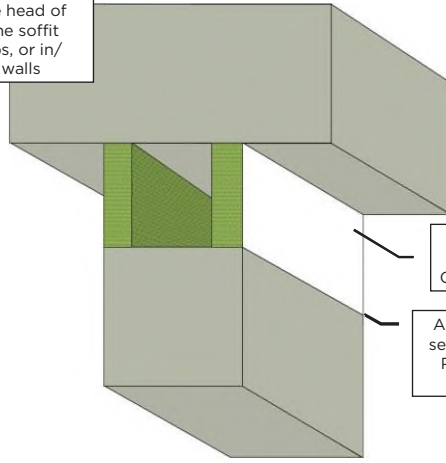
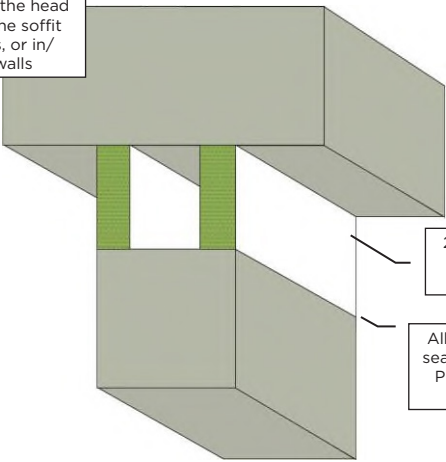
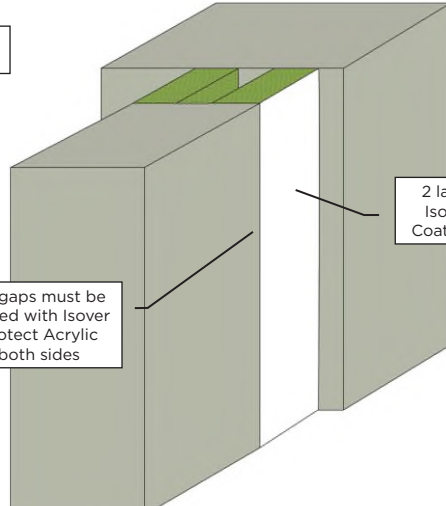
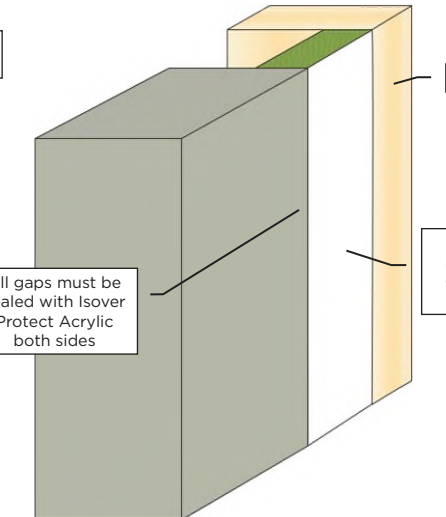
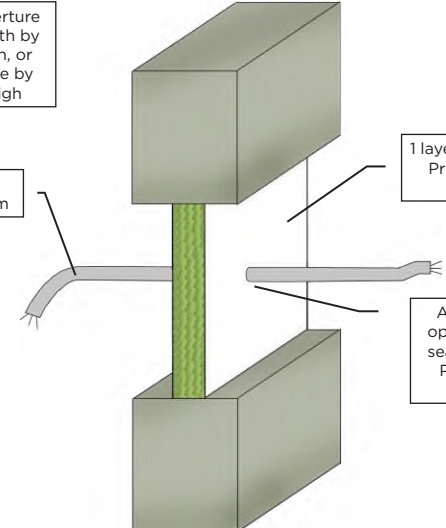
Maximum aperture 600mm high by 1200mm wide

50mm Isover Protect Coated Board 1-S oversailing aperture by 100mm with edges coated with Isover Protect Coating, both sides



All services and openings must be sealed with Isover Protect Acrylic both sides

Services	Isover Protect Pipe Wrap	Classification
Ø 32mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 40mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
Ø 75mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 90mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)
Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)

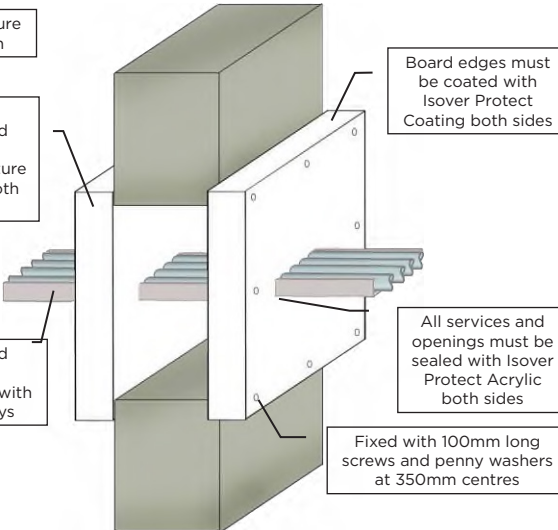
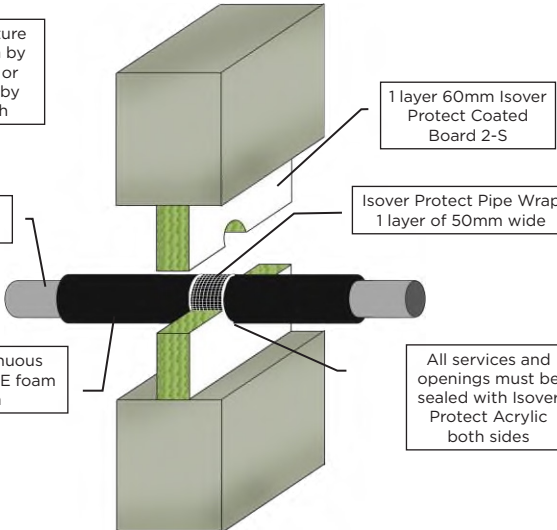
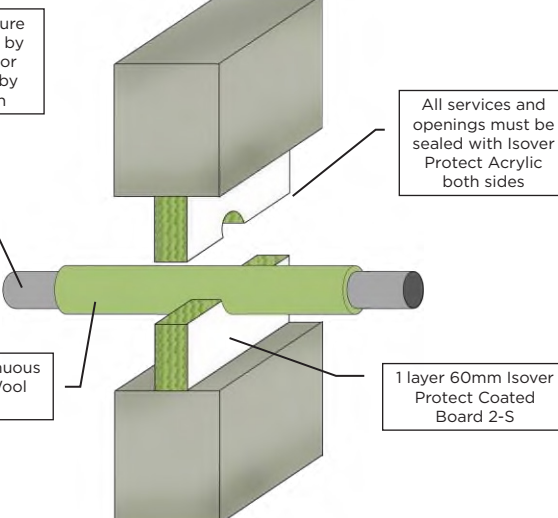
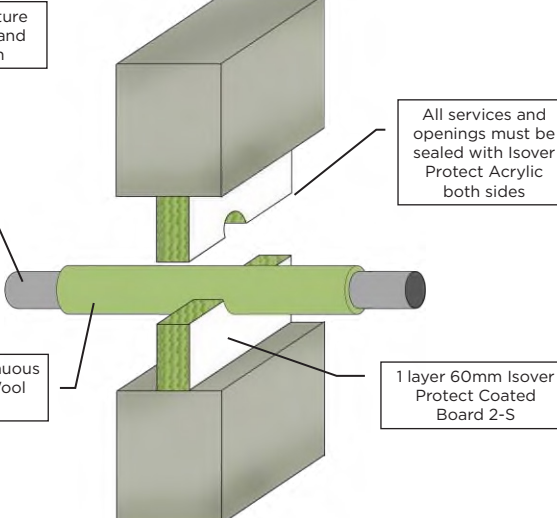
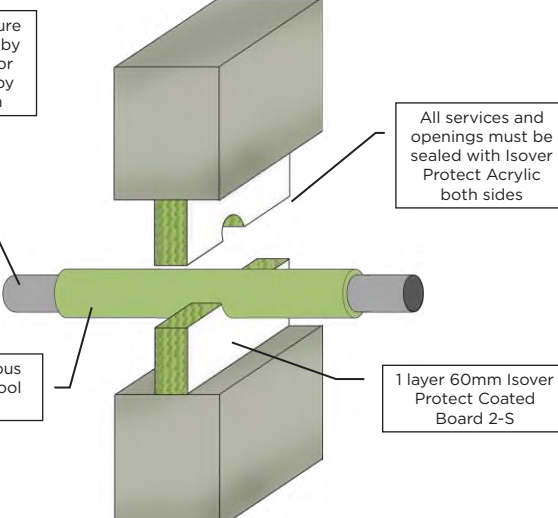
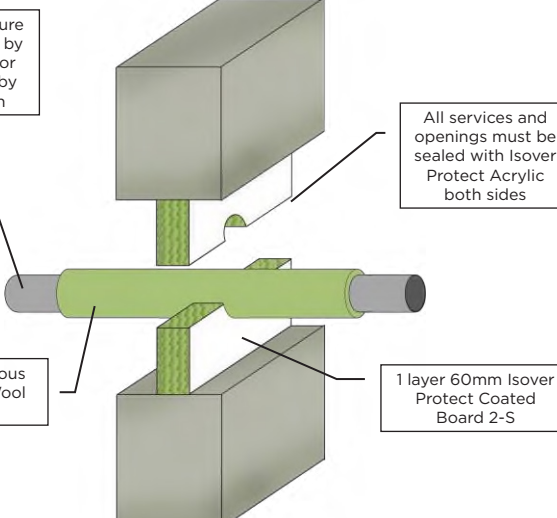
<p><b>HORIZONTAL SEALS FIRE RESISTANCE EI 90 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum 1200mm wide between the head of walls and the soffit of floor slabs, or in/ between walls</p>  <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>	<p><b>HORIZONTAL SEALS FIRE RESISTANCE EI 180 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum 1200mm wide between the head of walls and the soffit of floor slabs, or in/ between walls</p>  <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>
<p><b>HORIZONTAL SEALS FIRE RESISTANCE EI 180 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum 1200mm wide between the head of walls and the soffit of floor slabs, or in/ between walls</p>  <p>2 layers 60mm Isover Protect Board 2-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>	<p><b>VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 240)</b></p> <p><b>IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS</b></p> <p>Maximum seal width 200mm</p>  <p>2 layers 50mm Isover Protect Coated Board 1-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>
<p><b>VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS</b></p> <p>Maximum seal width 600mm</p>  <p>Timber frame</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CABLES FIRE RESISTANCE EI 90 (E 120)</b></p> <p><b>≥ 75 MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Cables ≤ Ø21mm</p>  <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>

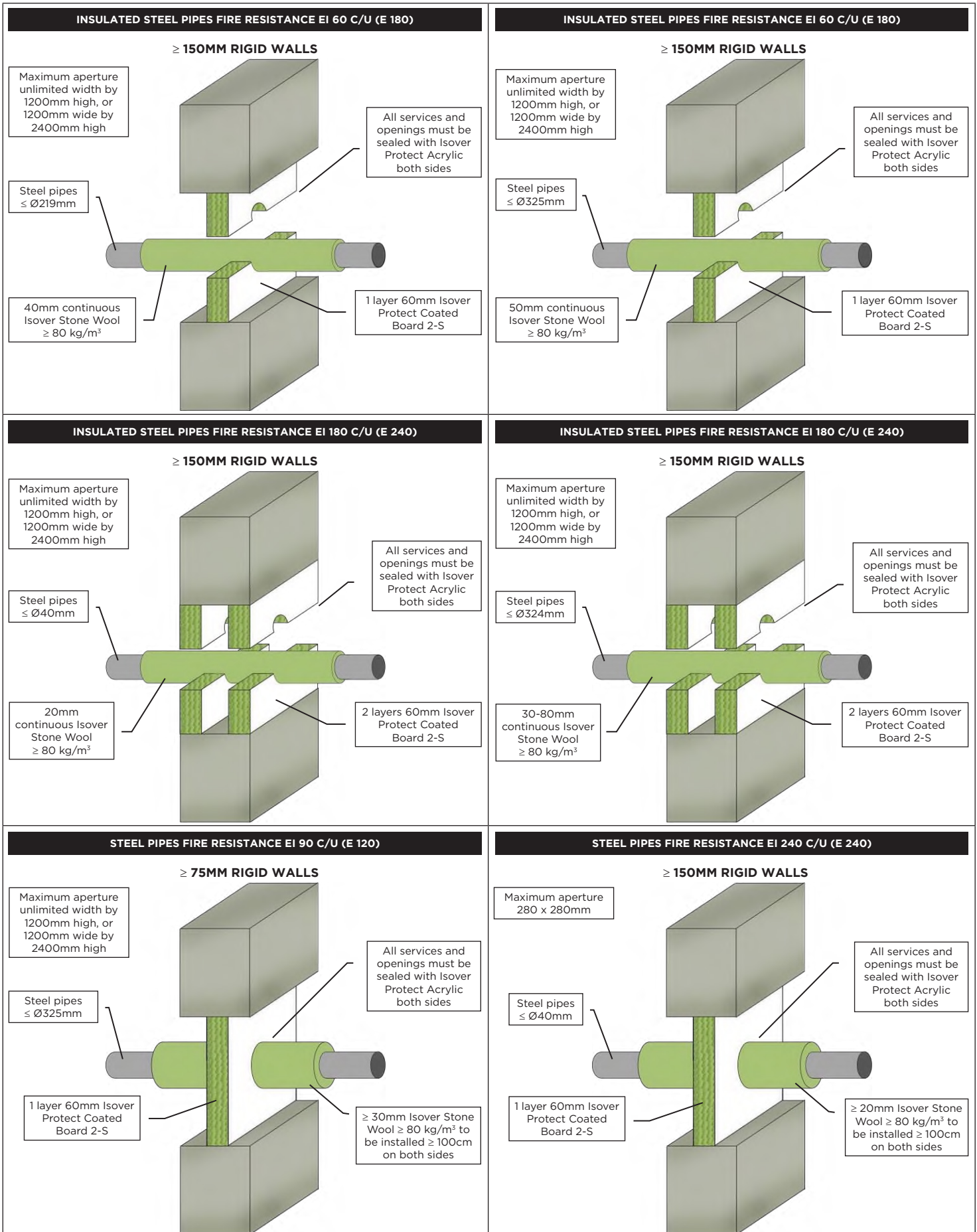
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

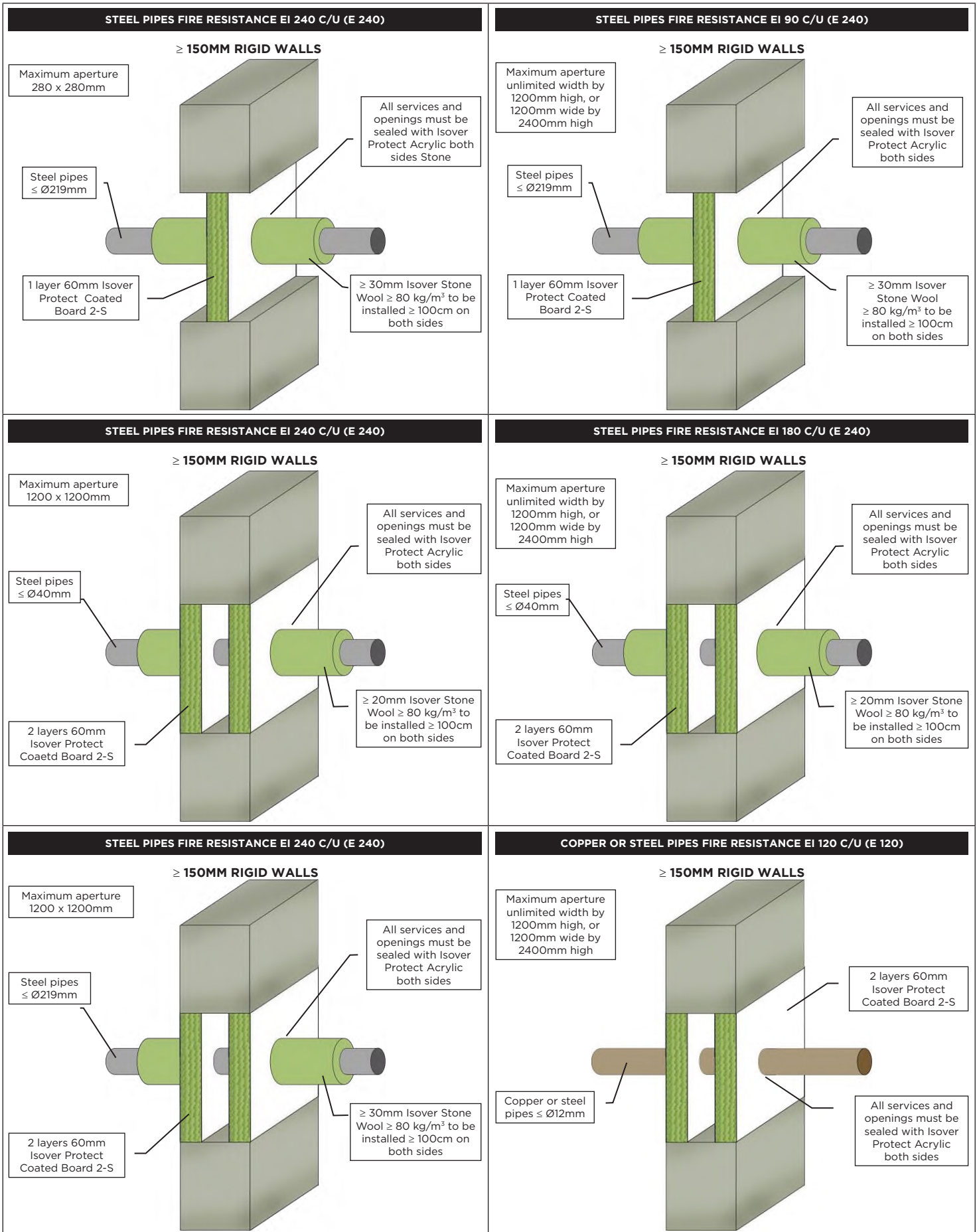
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)</b></p> <p><b>≥ 75MM RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide by 600mm high</p> <p>1 layer 50mm Isover Protect Coated Board 2-S</p> <p>All services must be coated 150mm each side with 300Q WFT Isover Protect Service Coat</p> <p>Cables ≤ Ø80mm, single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CABLES FIRE RESISTANCE EI 90 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Cables ≤ Ø21mm</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 180)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>2 layers 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Cables ≤ Ø21mm, single and bundled, and plastic conduits ≤ Ø16mm, with or without trays</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>2 layers 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Cables ≤ Ø21mm, single and bundled, with or without trays</p>
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 180)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>2 layers 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Cables ≤ Ø80mm, single and bundled, with or without trays</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 240 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S installed 30mm into aperture both sides to achieve total seal width of 210mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Cables ≤ Ø21mm in tied bundles ≤ Ø100mm with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>

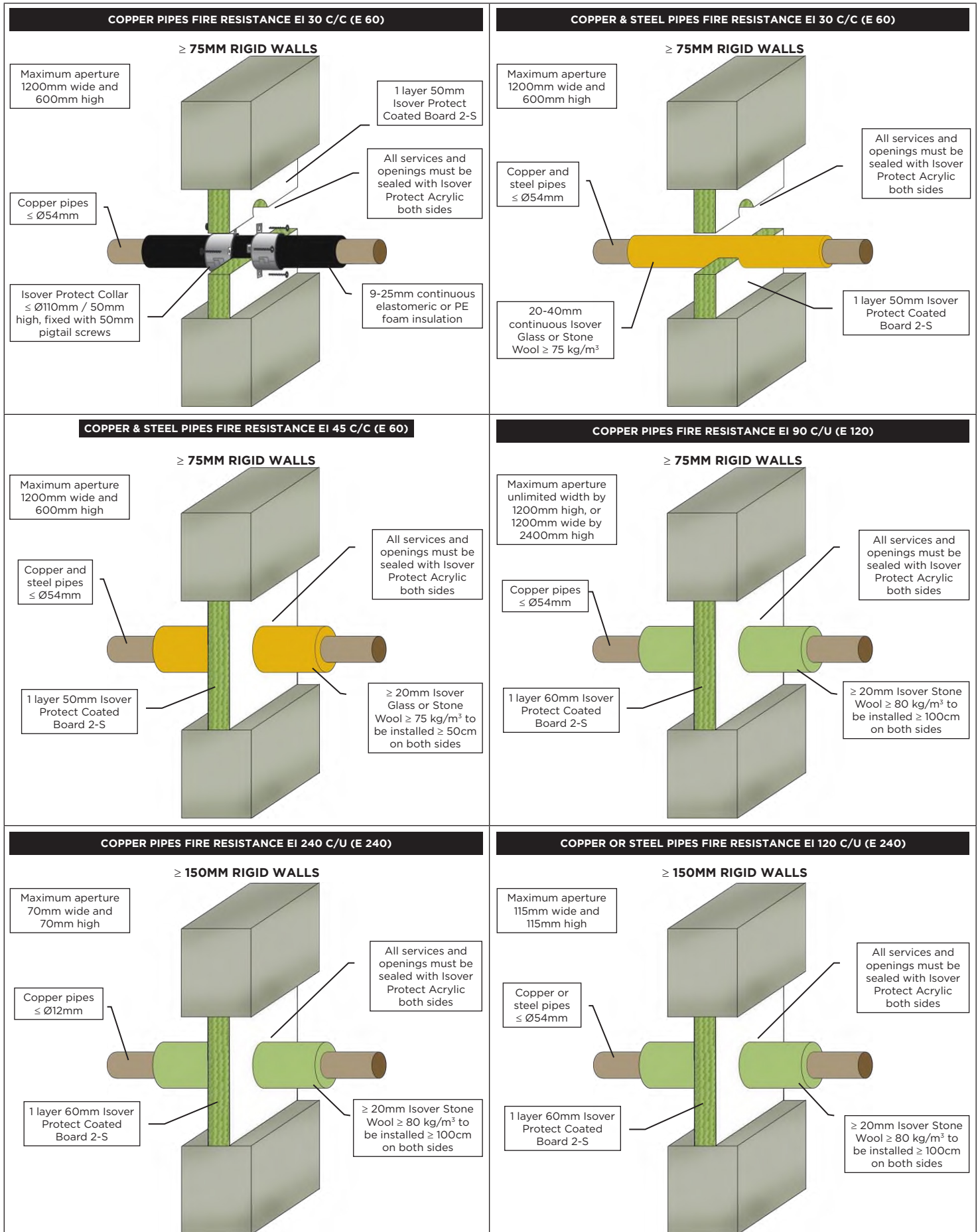
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S installed 30mm into aperture both sides to achieve total seal width of 210mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Cables ≤ Ø80mm, single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S installed 30mm into aperture both sides to achieve total seal width of 210mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Non-sheathed conductors ≤ 95mm<sup>2</sup> each, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S installed 30mm into aperture both sides to achieve total seal width of 210mm</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Non-sheathed conductors ≤ 185mm<sup>2</sup> each, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 240 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S oversailing aperture by 50mm on both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Cables ≤ Ø21mm in tied bundles ≤ Ø100mm with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Fixed with 100mm long screws and penny washers at 350mm centres</p>
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S oversailing aperture by 50mm on both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Cables ≤ Ø50mm, single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Fixed with 100mm long screws and penny washers at 350mm centres</p>	<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 240)</b></p> <p>≥ 150MM RIGID WALLS</p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S oversailing aperture by 50mm on both sides</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>Cables ≤ Ø80mm, single and bundled, with or without trays</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Fixed with 100mm long screws and penny washers at 350mm centres</p>

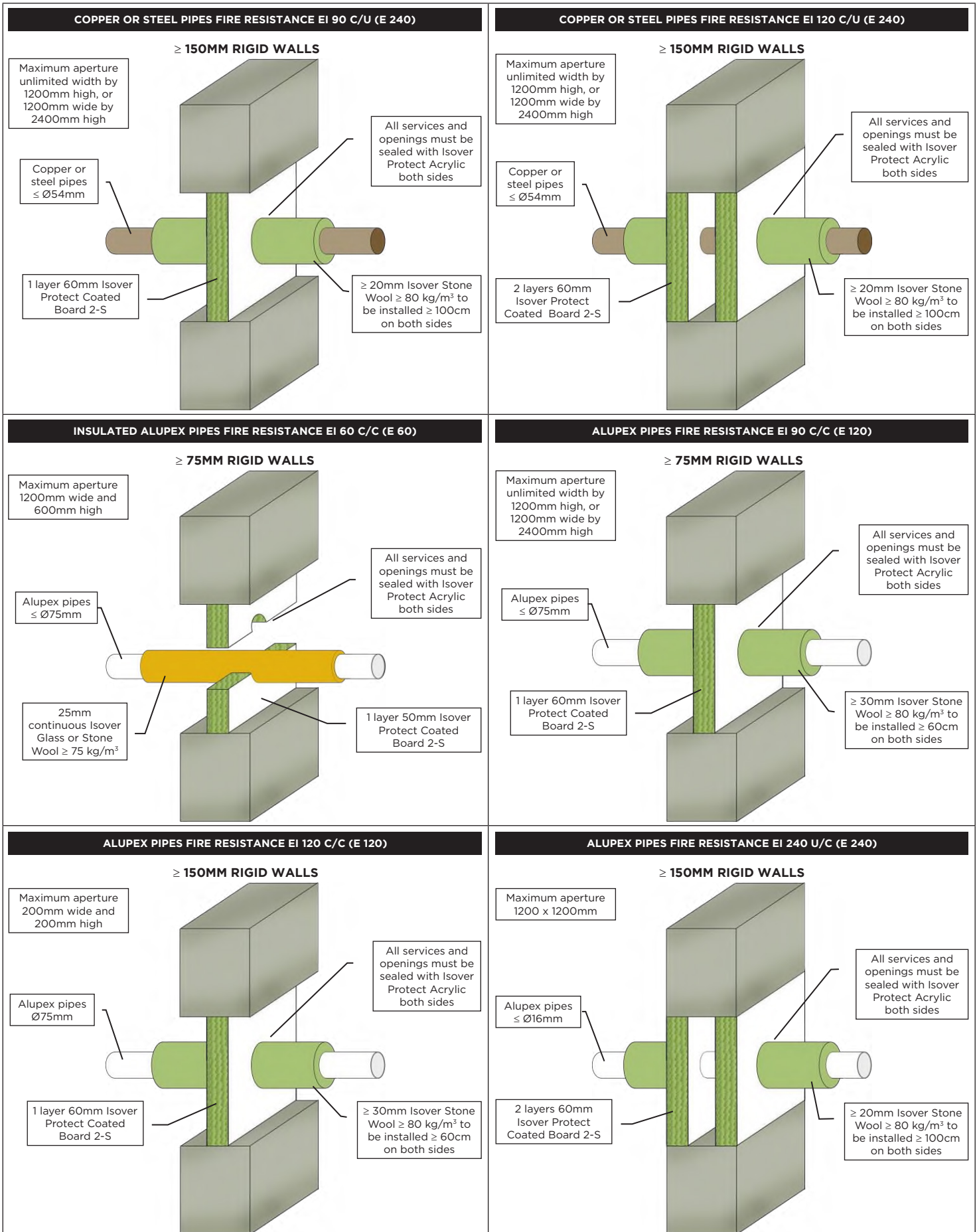
# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD

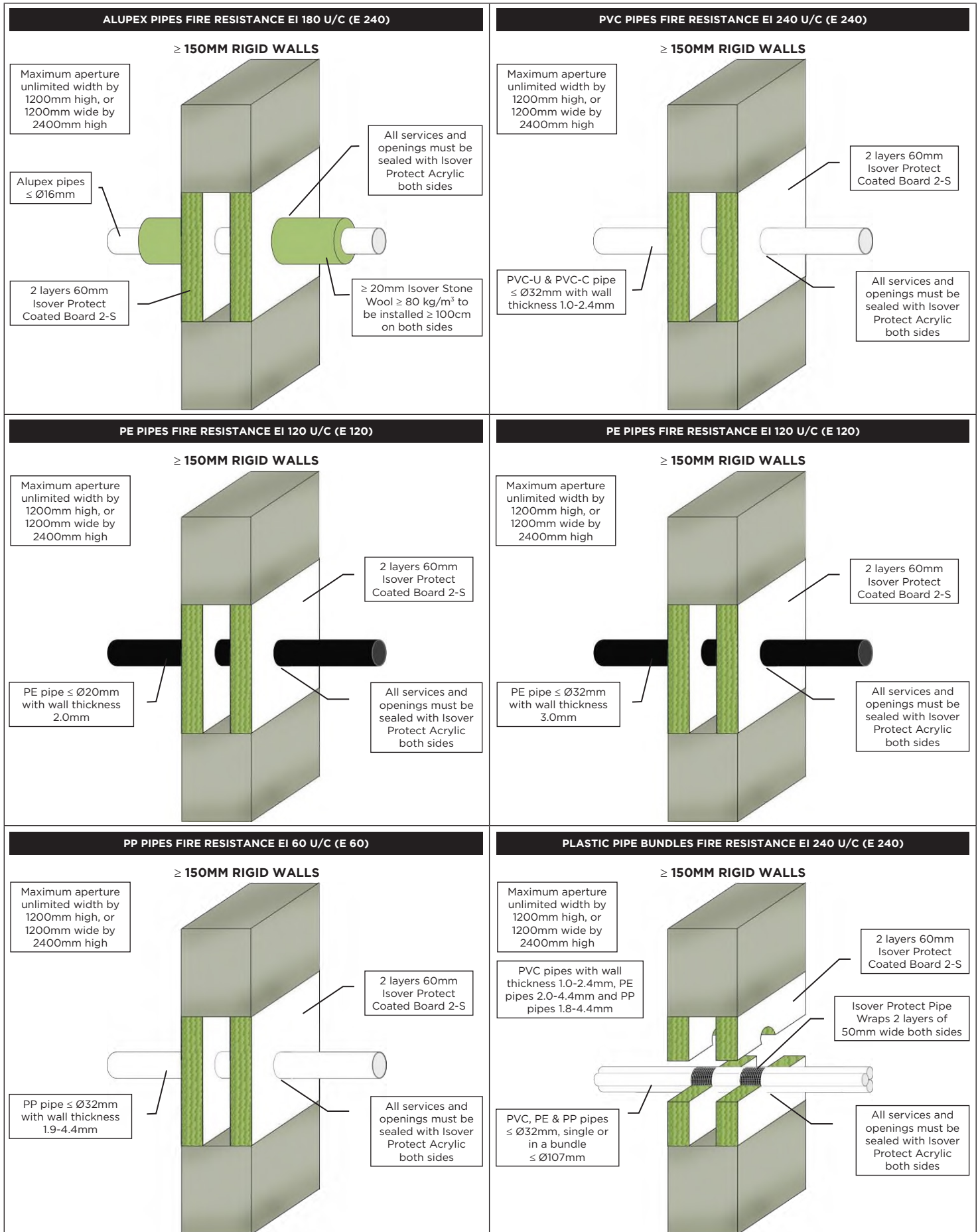
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 120 (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture 600 x 600mm</p> <p>60mm Isover Protect Coated Board 2-S oversailing aperture by 50mm on both sides</p> <p>Non-sheathed conductors ≤ 185mm<sup>2</sup> each, with or without trays</p> <p>Board edges must be coated with Isover Protect Coating both sides</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>Fixed with 100mm long screws and penny washers at 350mm centres</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)</b></p> <p><b>≥ 75MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Steel pipes Ø165mm</p> <p>9-25mm continuous elastomeric or PE foam insulation</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>Isover Protect Pipe Wrap 1 layer of 50mm wide</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> 
<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)</b></p> <p><b>≥ 75MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Steel pipes ≤ Ø219mm</p> <p>30-50mm continuous Isover Stone Wool ≥ 80 kg/m<sup>3</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)</b></p> <p><b>≥ 75MM RIGID WALLS</b></p> <p>Maximum aperture 1200mm wide and 600mm high</p> <p>Steel pipes ≤ Ø324mm</p> <p>30-40mm continuous Isover Stone Wool ≥ 80 kg/m<sup>3</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> 
<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)</b></p> <p><b>≥ 75MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Steel pipes ≤ Ø325mm</p> <p>50mm continuous Isover Stone Wool ≥ 80 kg/m<sup>3</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> 	<p><b>INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 240)</b></p> <p><b>≥ 150MM RIGID WALLS</b></p> <p>Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high</p> <p>Steel pipes ≤ Ø219mm</p> <p>30mm continuous Isover Stone Wool ≥ 80 kg/m<sup>3</sup></p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> 





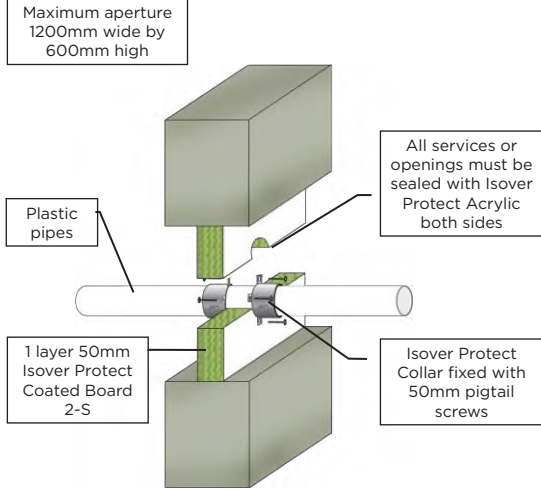






PLASTIC PIPES FIRE RESISTANCE EI 30-60

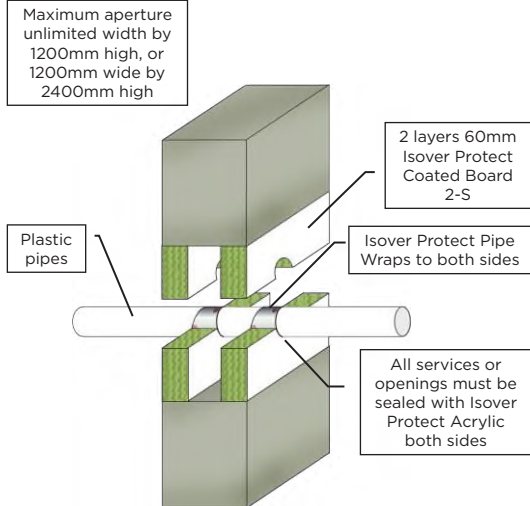
≥ 75MM RIGID WALLS



Pipe & Collar Descriptions	Pipe Wall Thickness	Min. Collar Height	Classification
≤ Ø 110mm PVC-U & PVC-C	1.9 – 6.6mm	30mm	EI 30 U/C (E 90 U/C)
≤ Ø 50mm PVC-U & PVC-C	1.9 – 3.7mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PVC-U & PVC-C	2.1 – 6.6mm	50mm	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PVC-U & PVC-C	3.1 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	30mm	EI 45 U/C (E 60 U/C)
≤ Ø 50mm PE, ABS & SAN+PVC	3.0 – 4.6mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.0 – 10.0mm	50mm	EI 60 C/C (E 90 C/C)
≤ Ø 160mm PE, ABS & SAN+PVC	3.9 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 90mm PP	1.8 – 4.6mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PP	2.7mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 160mm PP	3.4 – 9.1mm	60mm	EI 60 C/C (E 60 C/C)

PLASTIC PIPES FIRE RESISTANCE EI 120-240

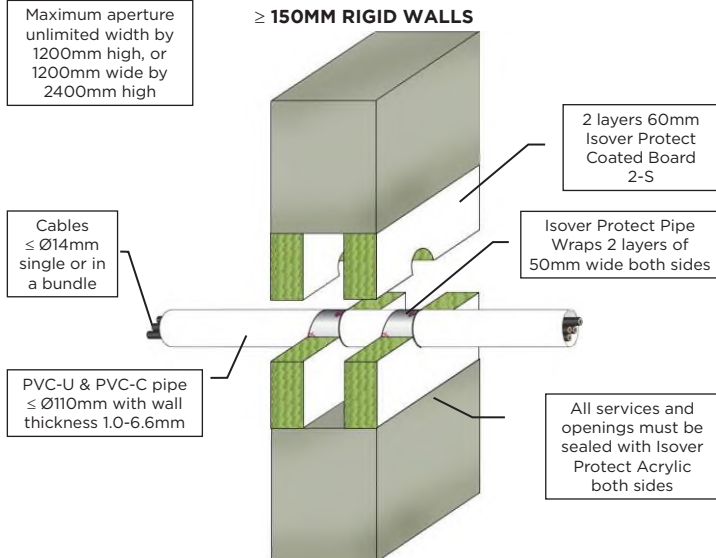
≥ 150MM RIGID WALLS



Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 4.6mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PP	2.7 – 10.0mm	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 125mm PVC-U & PVC-C	4.7 – 7.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	3.9 – 7.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 125mm PP	3.1 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 9.5mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 200mm PP	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 – 12.1mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	28.6mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 180 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 – 15.3mm	75 x 28.8mm (16 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	36.3mm	75 x 28.8mm (16 layers)	EI 120 C/C (E 120 C/C)

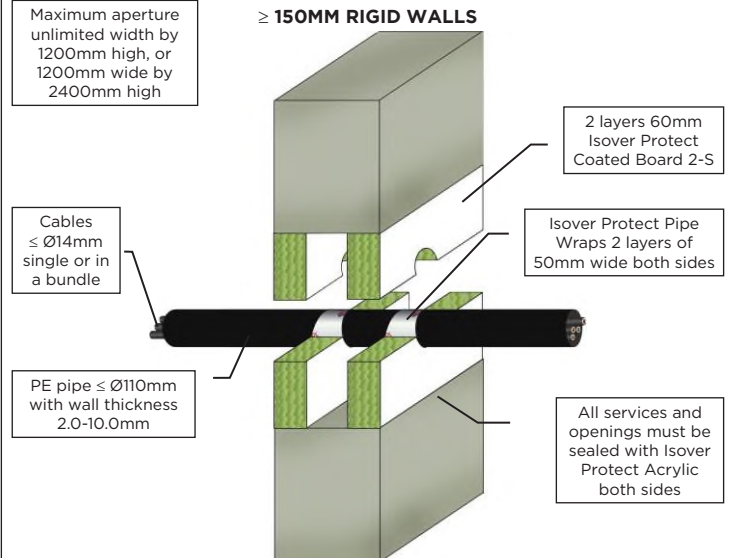
PVC CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

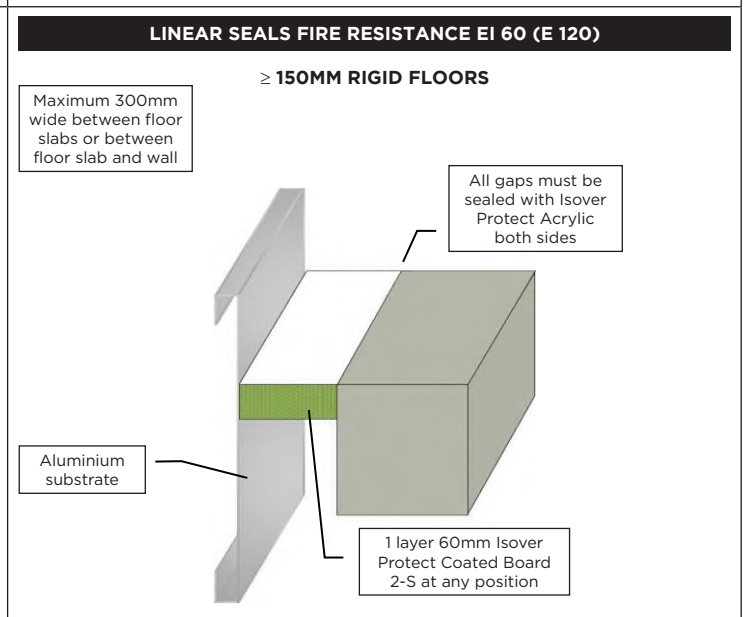
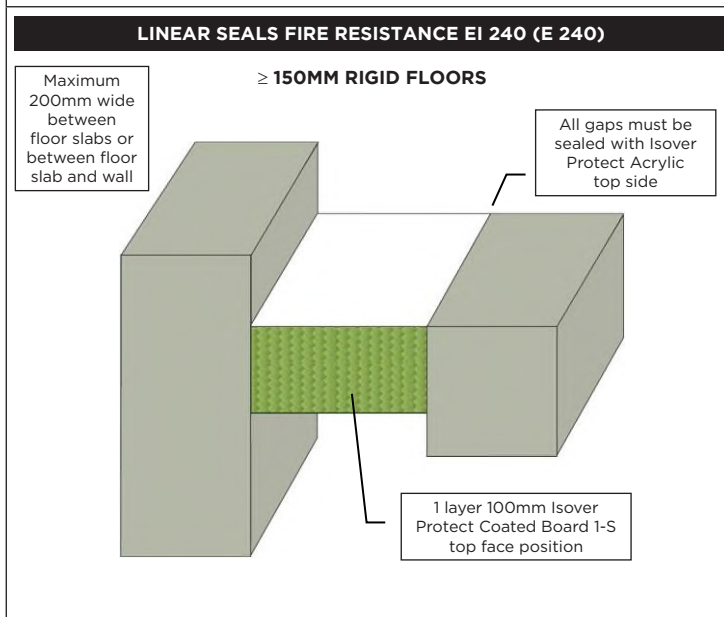
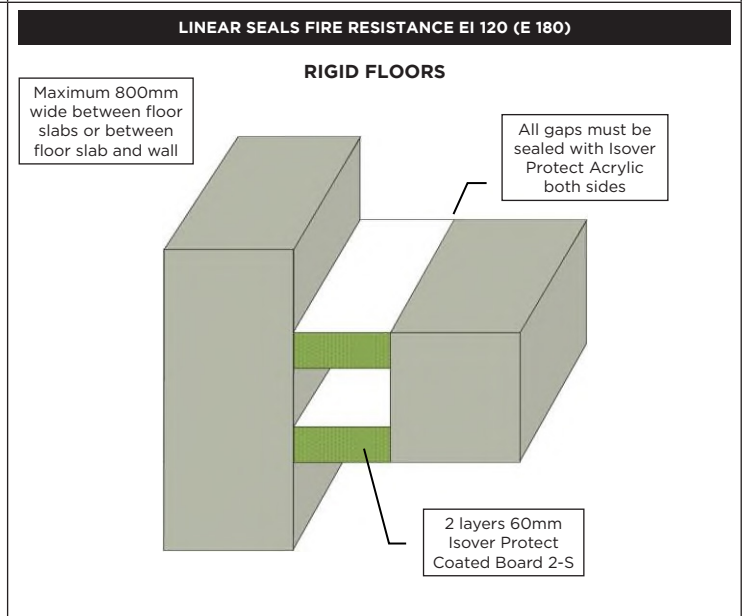
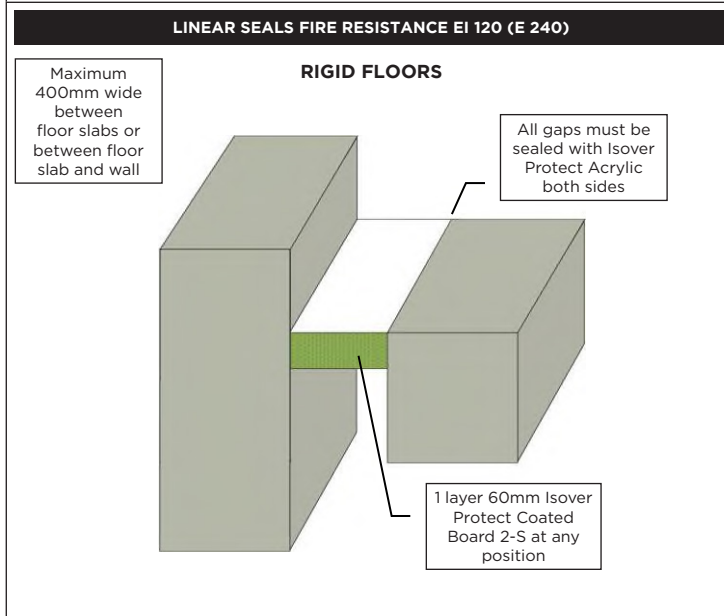
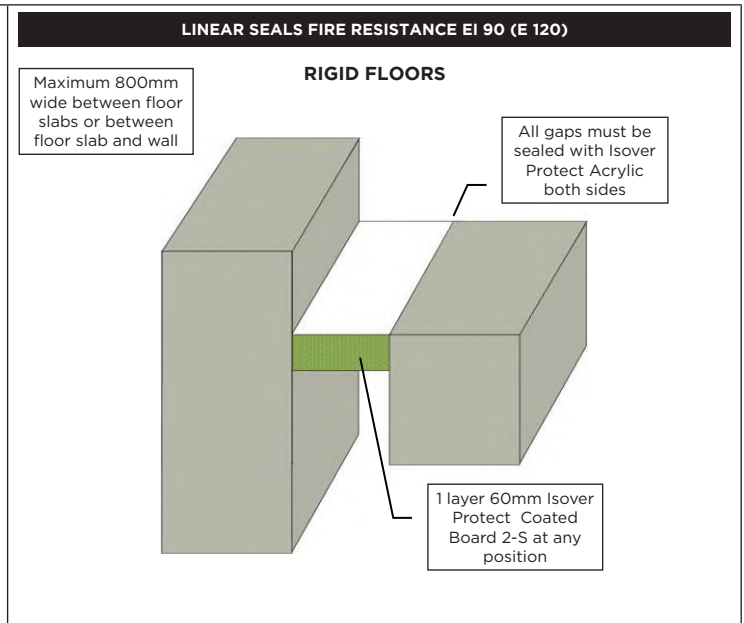
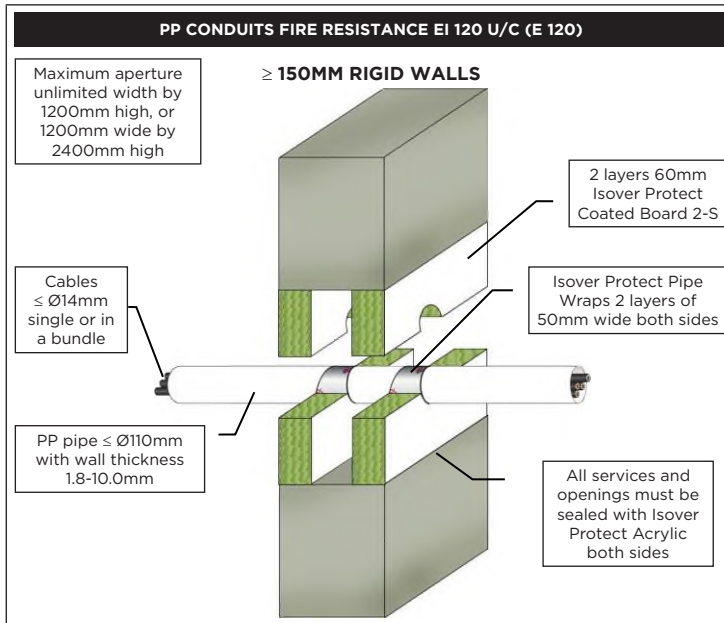
≥ 150MM RIGID WALLS



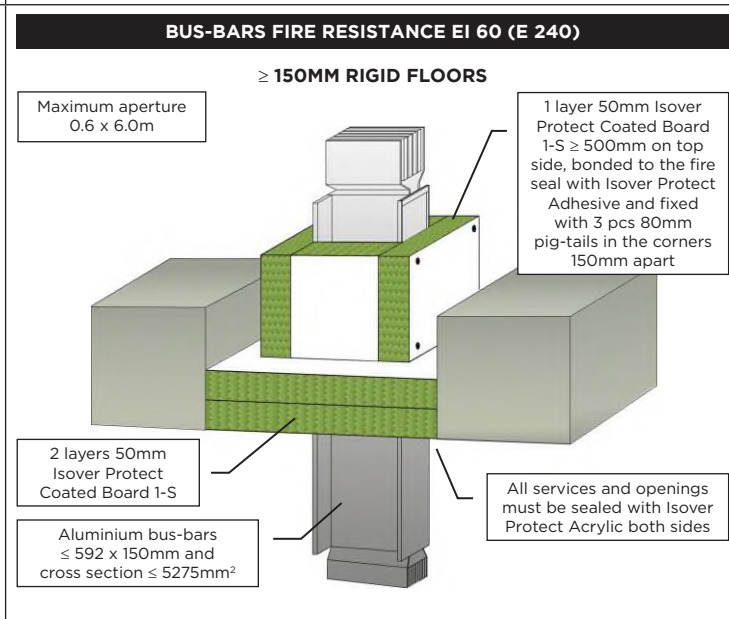
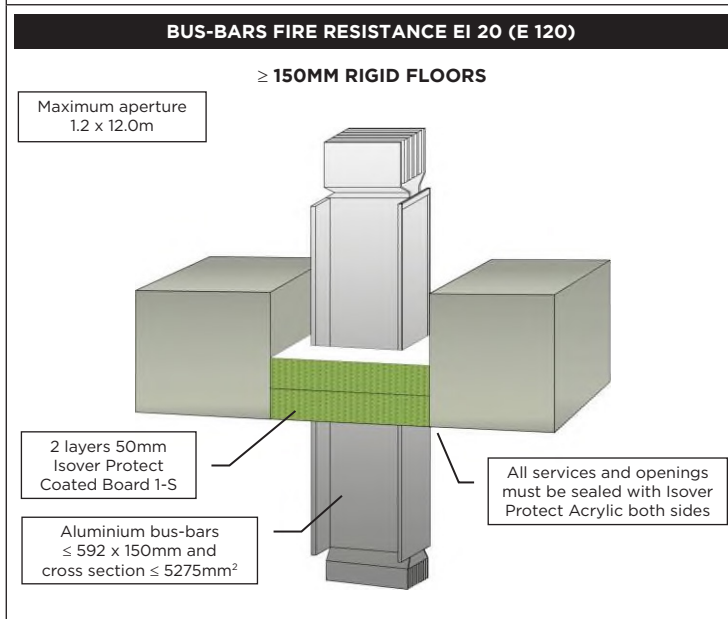
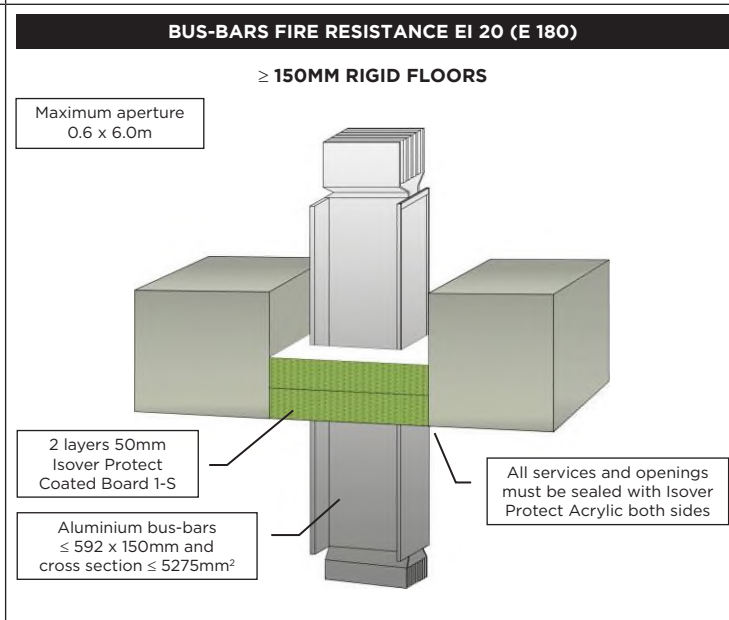
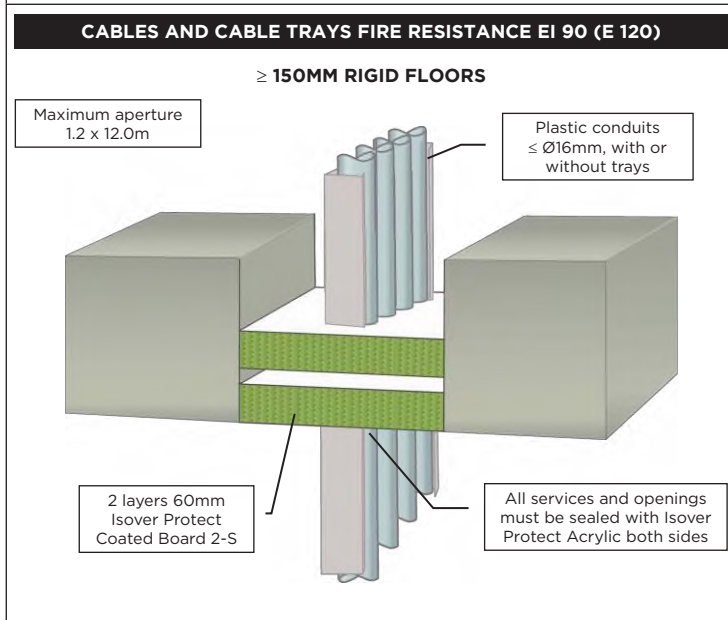
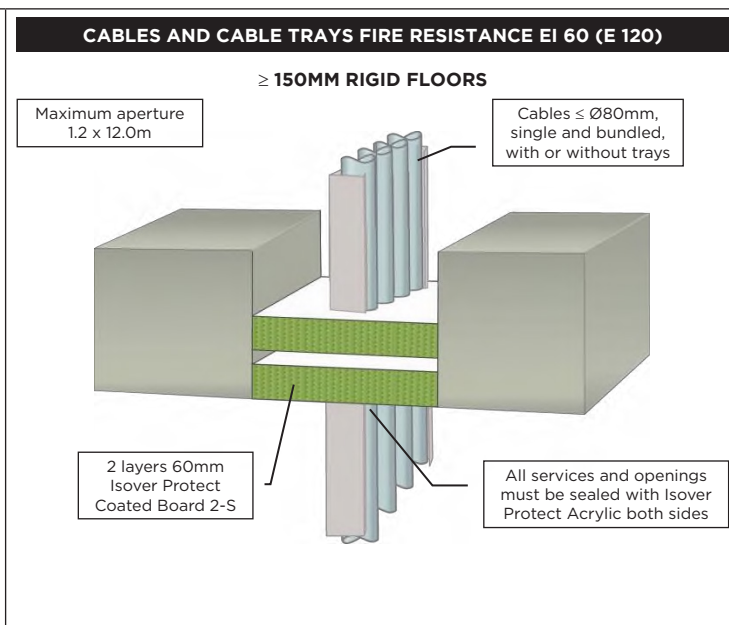
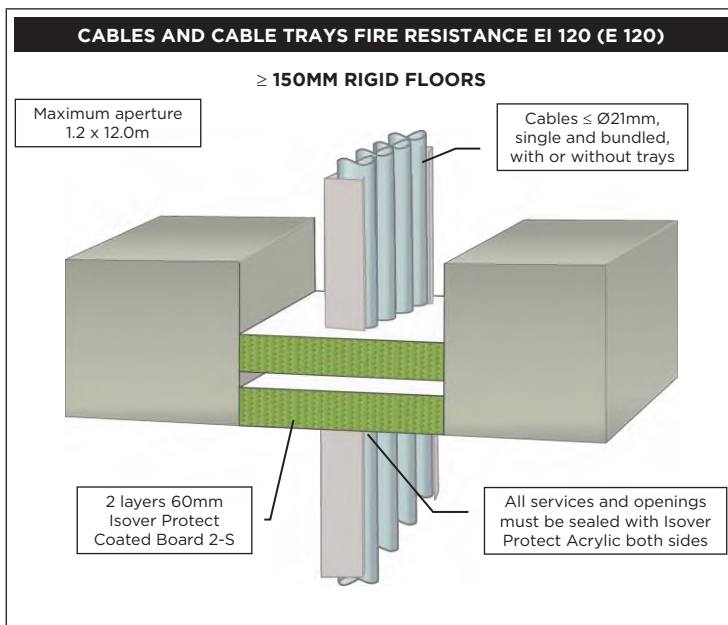
PE CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

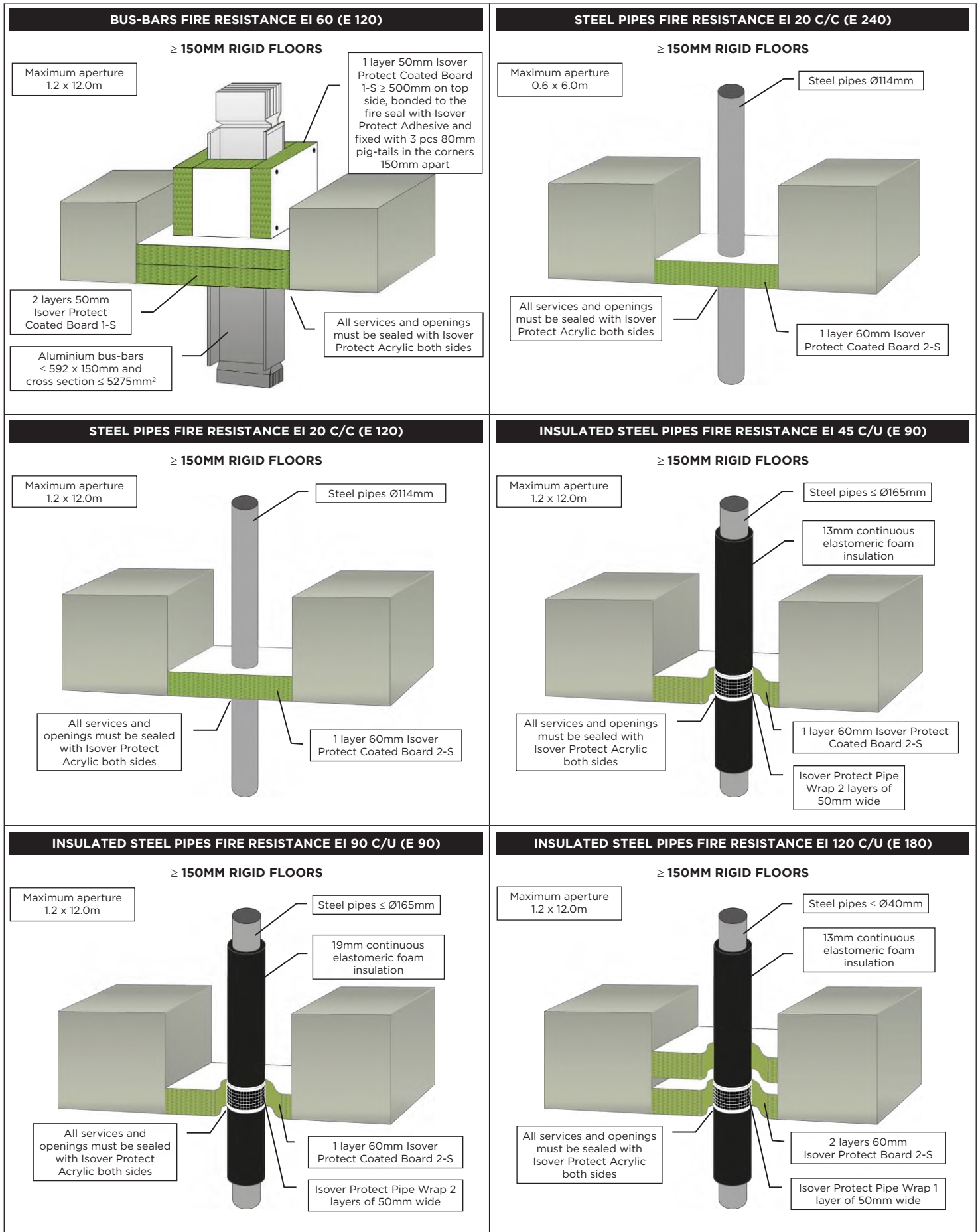
≥ 150MM RIGID WALLS

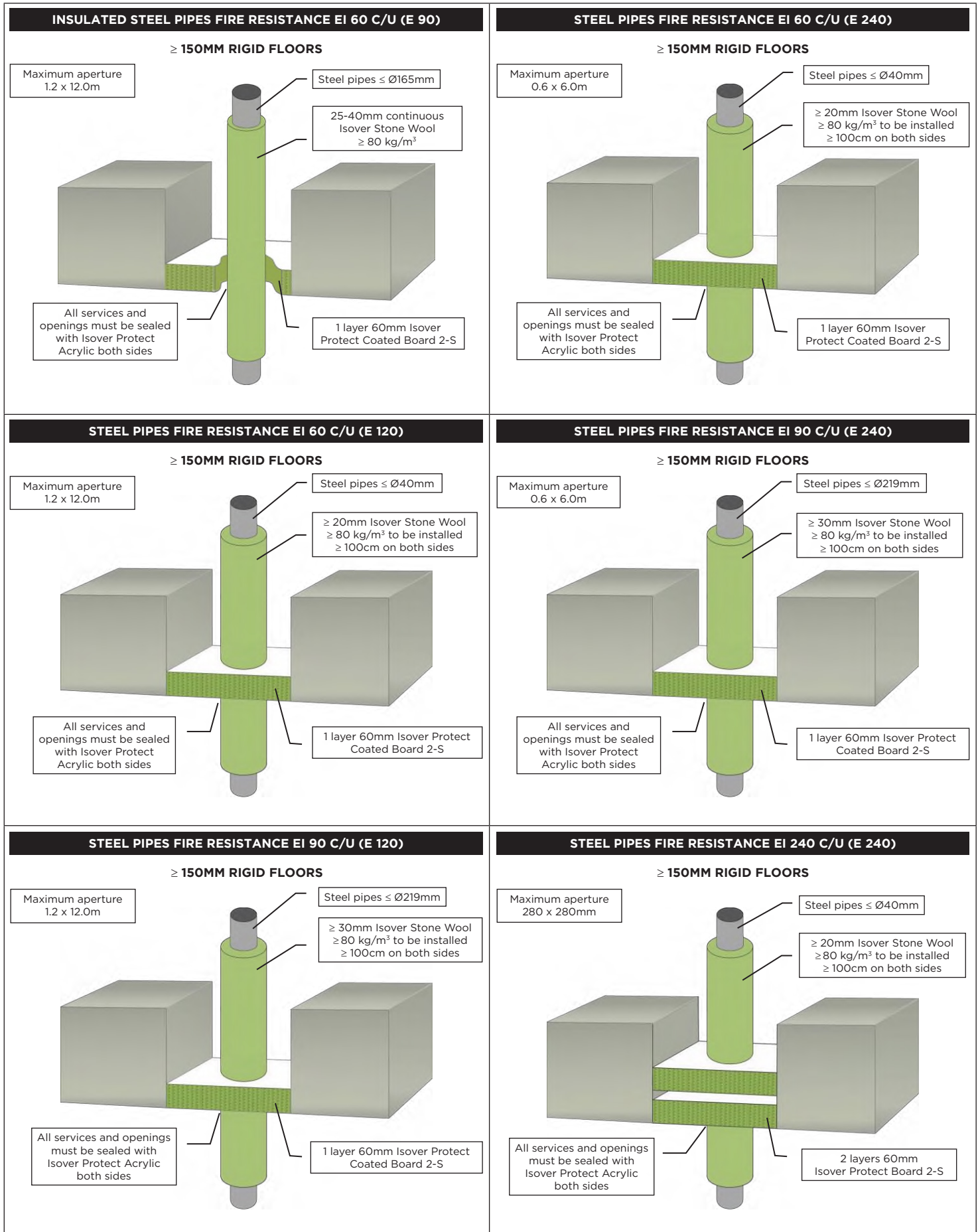


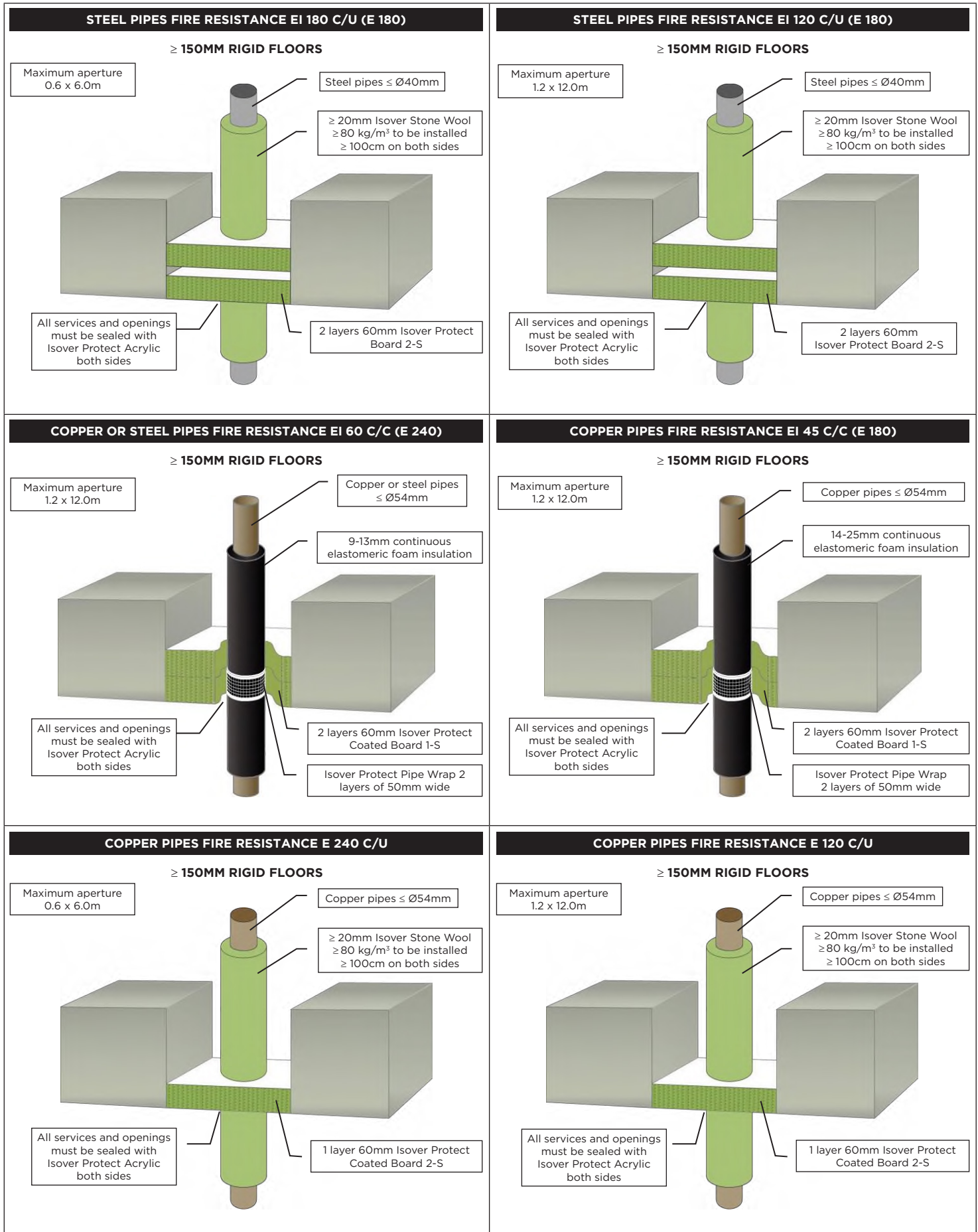


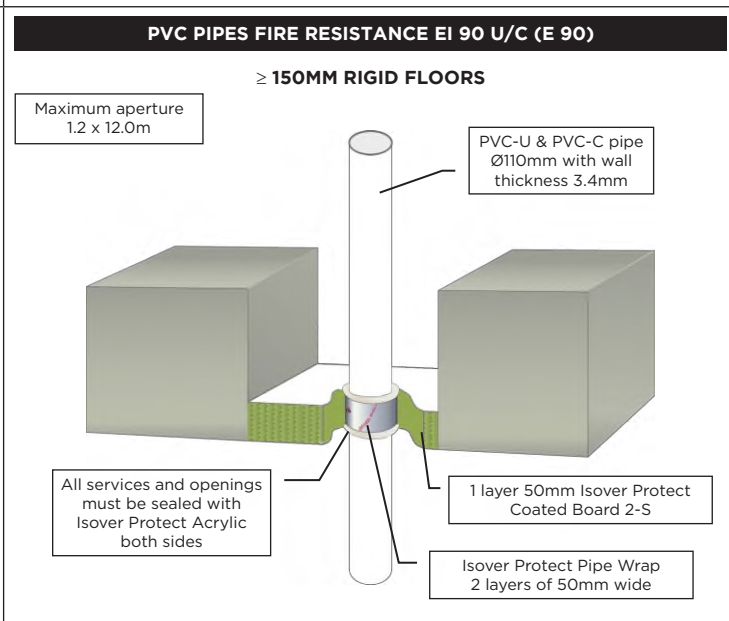
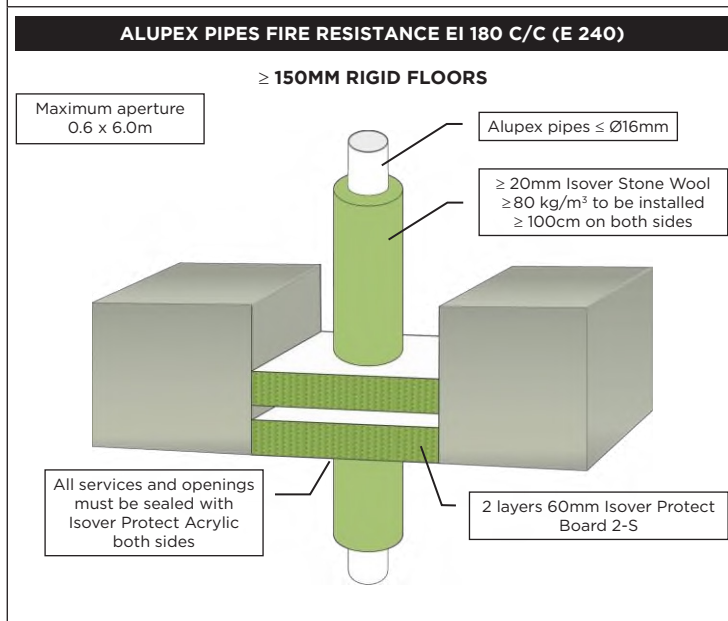
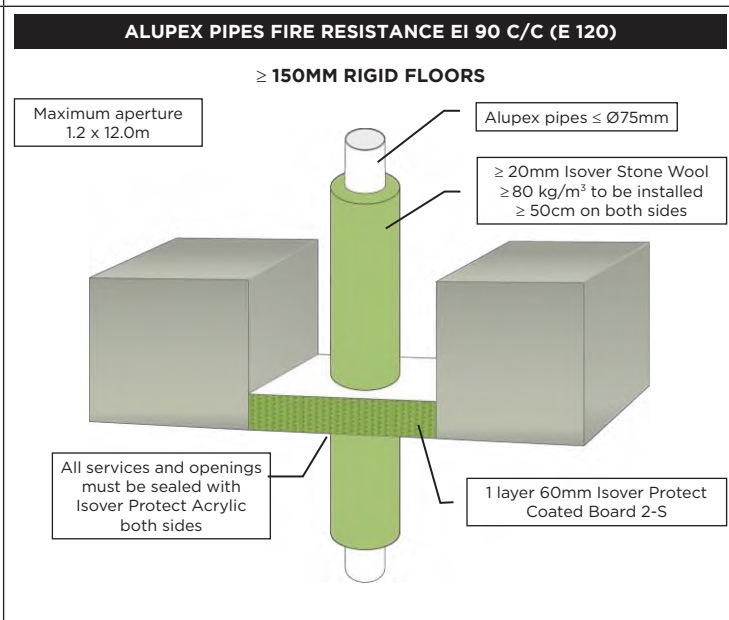
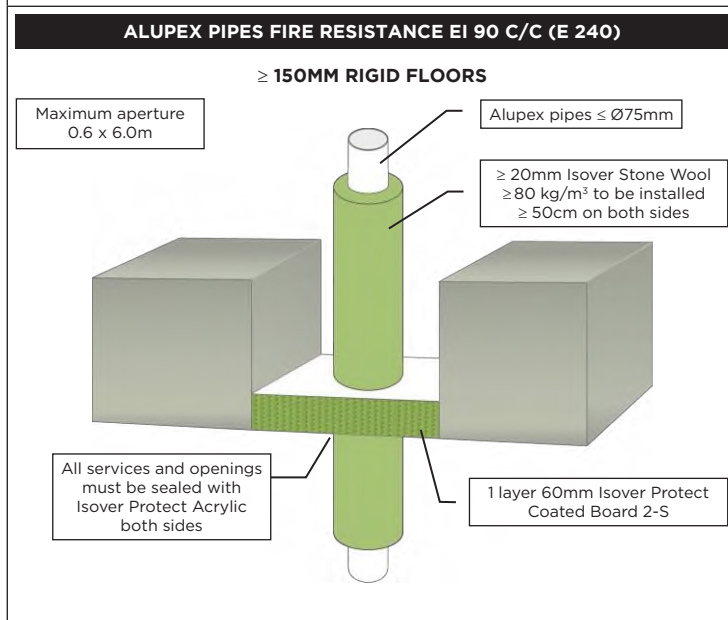
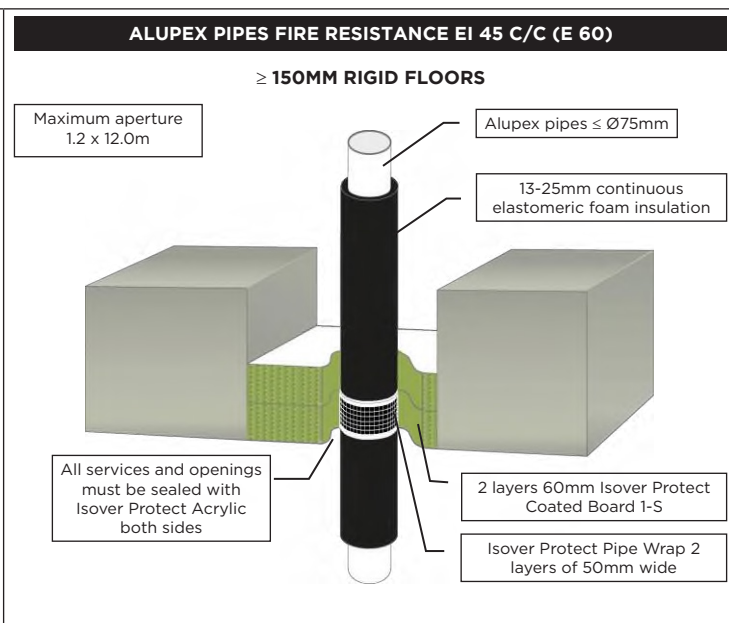
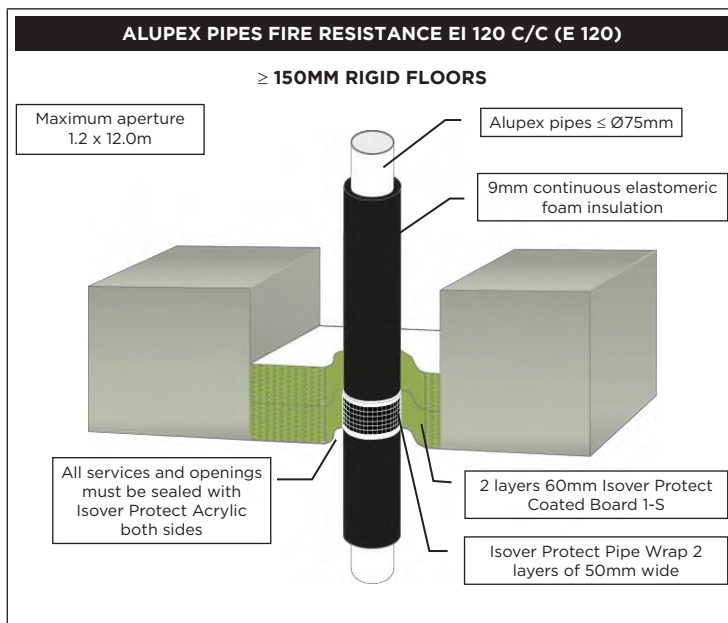
<p><b>LINEAR SEALS FIRE RESISTANCE EI 90 (E 120)</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum 300mm wide between floor slabs or between floor slab and wall</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p> <p>Aluminium frame classified to EI 90 or higher</p> <p>1 layer 60mm Isover Protect Coated Board 2-S at any position</p>	<p><b>LINEAR SEALS FIRE RESISTANCE E 120</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum 600mm wide between floor slabs or between floor slab and wall</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p> <p>Steel substrate</p> <p>1 layer 60mm Isover Protect Coated Board 2-S top face position</p>
<p><b>LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum 600mm wide between floor slabs or between floor slab and wall</p> <p>All gaps must be sealed with Isover Protect Acrylic both sides</p> <p>Steel frame classified to EI 120 or higher</p> <p>1 layer 60mm Isover Protect Coated Board 2-S top face position</p>	<p><b>CABLES FIRE RESISTANCE EI 30 (E 240)</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum aperture 0.6 x 6.0m</p> <p>Cables ≤ Ø21mm</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>
<p><b>CABLES AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 90)</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum aperture 1.2 x 12.0m</p> <p>Cables ≤ Ø80mm, single and bundled, with or without trays</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>	<p><b>CONDUCTORS AND CONDUITS FIRE RESISTANCE EI 30 (E 45)</b></p> <p>≥ 150MM RIGID FLOORS</p> <p>Maximum aperture 1.2 x 12.0m</p> <p>Non-sheathed conductors ≤ 95mm² and plastic conduits ≤ Ø16mm, with or without trays</p> <p>1 layer 60mm Isover Protect Coated Board 2-S</p> <p>All services and openings must be sealed with Isover Protect Acrylic both sides</p>









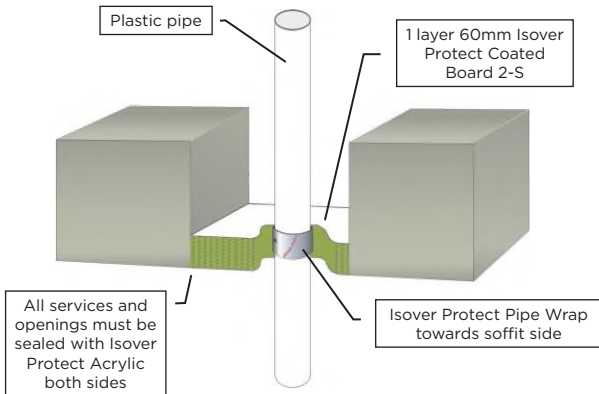


**PLASTIC PIPES FIRE RESISTANCE EI 60**

≥ 125 MM RIGID FLOORS

Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø40 mm PVC	1.9 - 3.0 mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 120)
≤ Ø110 mm PVC	2.7 - 6.6 mm	50 x 3.6 mm (2 layers)	EI 60 U/C (E 60)
≤ Ø40 mm PE	2.4 - 3.7mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 60)
≤ Ø110 mm PE	3.4 - 10.0mm	50 x 3.6 mm (2 layers)	EI 60 U/C (E 60)
≤ Ø40 mm PP	1.8 - 5.5mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 60)
≤ Ø110 mm PP	2.7 - 10.0mm	50 x 3.6 mm (2 layers)	EI 60 C/C (E 60)

Maximum aperture  
1.2 x 12.0m

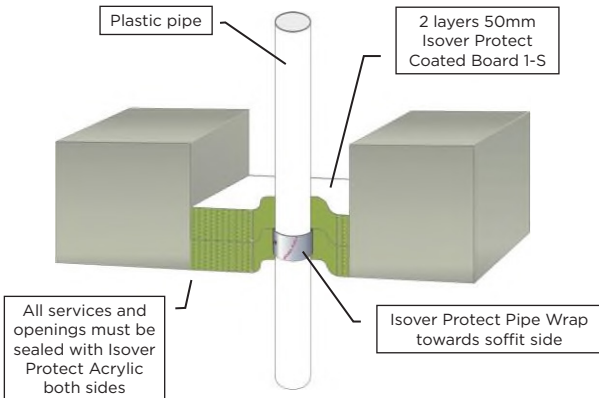


**PLASTIC PIPES FIRE RESISTANCE EI 60**

≥ 125 MM RIGID FLOORS

Services	Pipe Wall Thickness	Isover Protect Pipe Wrap	Classification
≤ Ø40 mm PVC	1.9 - 3.0 mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 120)
≤ Ø110 mm PVC	2.7 - 6.6 mm	50 x 3.6 mm (2 layers)	EI 60 U/C (E 60)
≤ Ø40 mm PE	2.4 - 3.7mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 60)
≤ Ø110 mm PE	3.4 - 10.0mm	50 x 3.6 mm (2 layers)	EI 60 U/C (E 60)
≤ Ø40 mm PP	1.8 - 5.5mm	50 x 1.8 mm (1 layer)	EI 60 U/C (E 60)
≤ Ø110 mm PP	2.7 - 10.0mm	50 x 3.6 mm (2 layers)	EI 60 C/C (E 60)
≤ Ø160 mm PP	4.9 - 14.6mm	50 x 10.8 mm (6 layers)	EI 60 C/C (E 60)

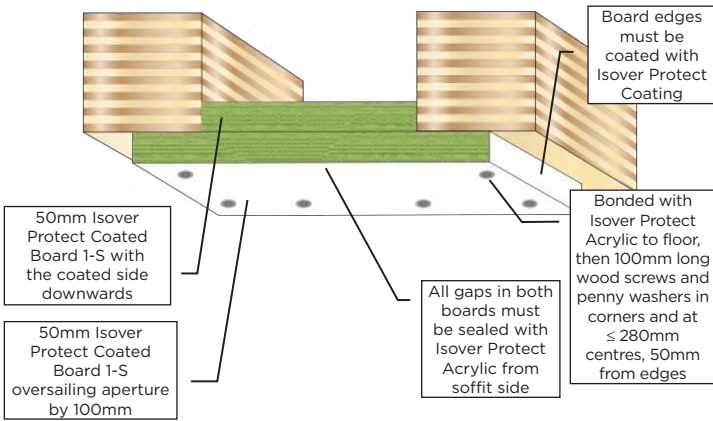
Maximum aperture  
1.2 x 12.0m



**LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)**

≥ 150MM TIMBER & RIGID FLOORS

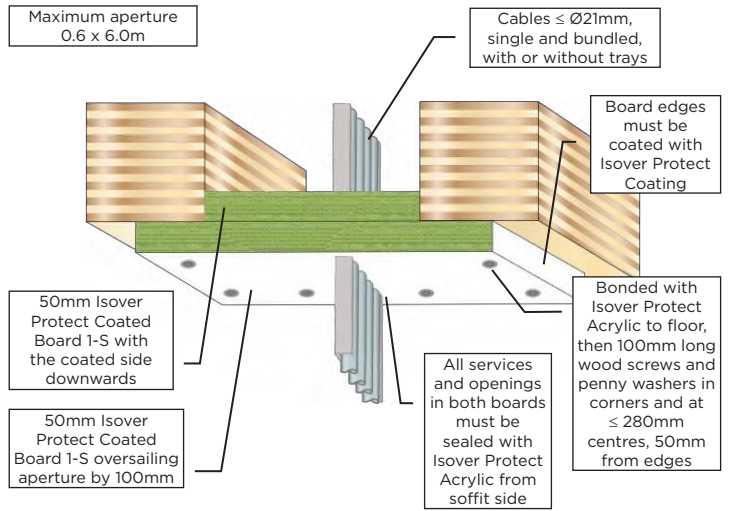
Maximum 400mm wide  
between floor slabs

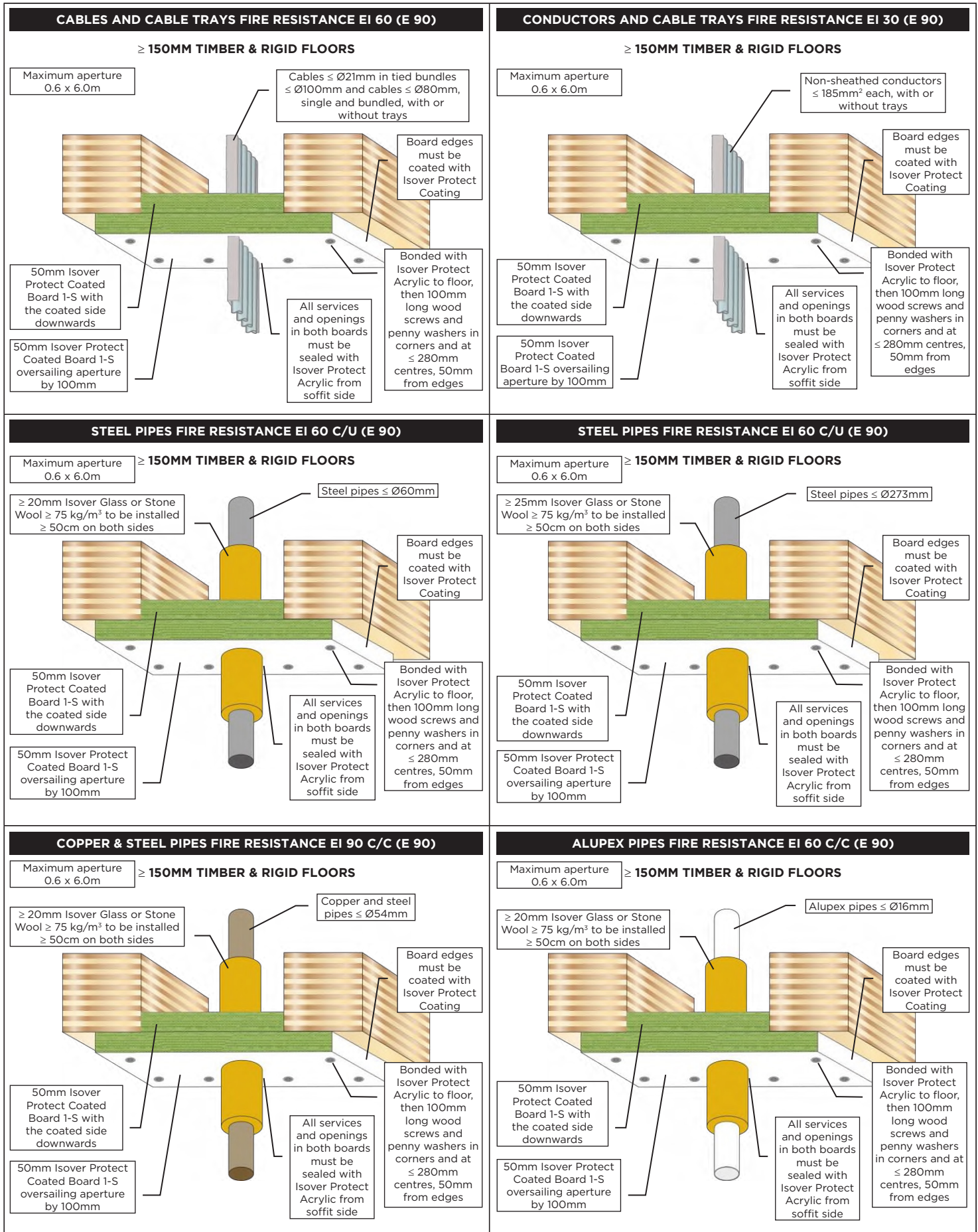


**CABLES AND CABLE TRAYS FIRE RESISTANCE EI 45 (E 90)**

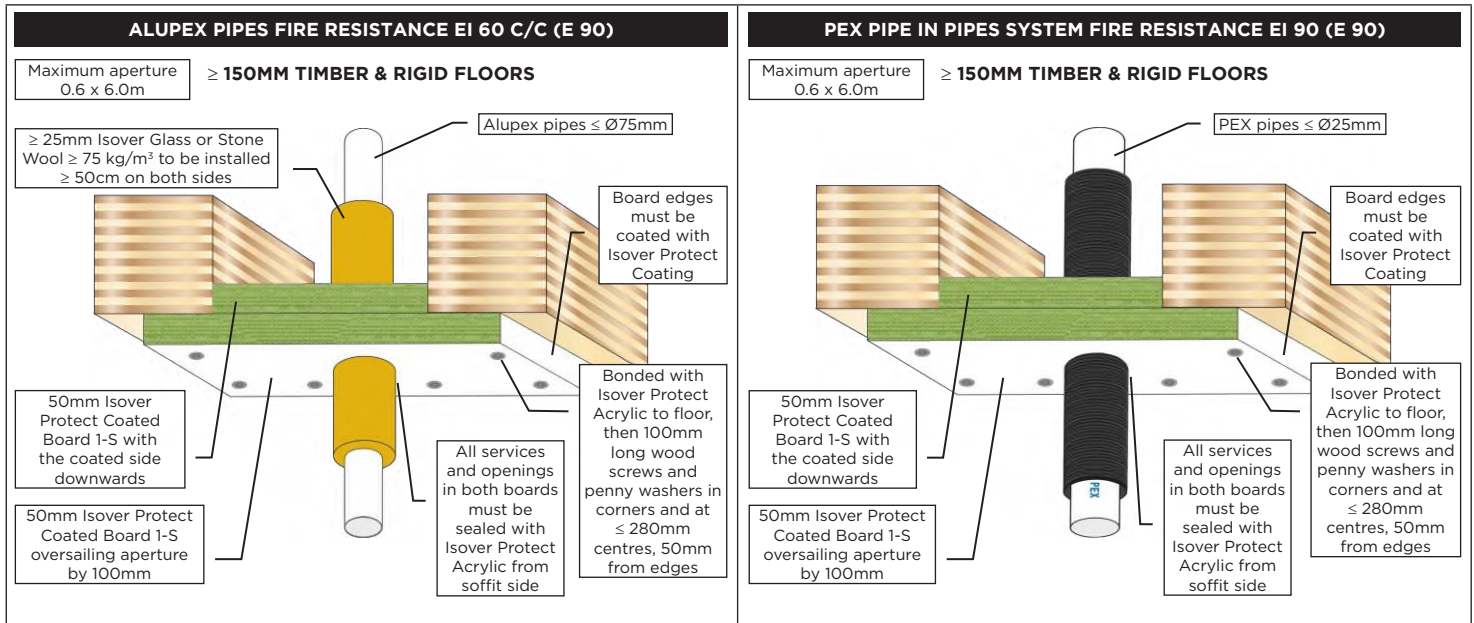
≥ 150MM TIMBER & RIGID FLOORS

Maximum aperture  
0.6 x 6.0m





# TECHNICAL DRAWINGS ISOVER PROTECT COATED BOARD



The information in this publication is consistent with current knowledge and our experiences at the time of printing (refer to the print note on the right side). Knowledge and experience are constantly evolving. Therefore, you must ensure to use the latest version of this publication. The described applications of the products cannot consider all the specific circumstances of each individual case. Therefore, you should verify the suitability of our products for the intended purpose. Our Technical Advisory is happy to answer any questions.



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