PROTECTA® FR BOARD

INSTALLATION INSTRUCTIONS

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Please refer to Protecta® FR Damper for guidance on fire sealing ventilation ducts. Please also refer to the Technical Data Sheet.

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 Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture.

Protecta® FR 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^3 (650 kg/m^3 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^3. 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 Protecta® FR 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 Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Protecta® FR Coating, FR Acrylic, FR 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 Protecta® FR 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 Protecta® FR Coating or Protecta® FR 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 pattress fitted). All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on the coated exposed side(s) of the board(s). Visible edges of Protecta® FR Pipe Wraps can be sealed with Protecta® FR Acrylic (optional).
11. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic and FR Graphite seals by painting over with Protecta® FR Coating.

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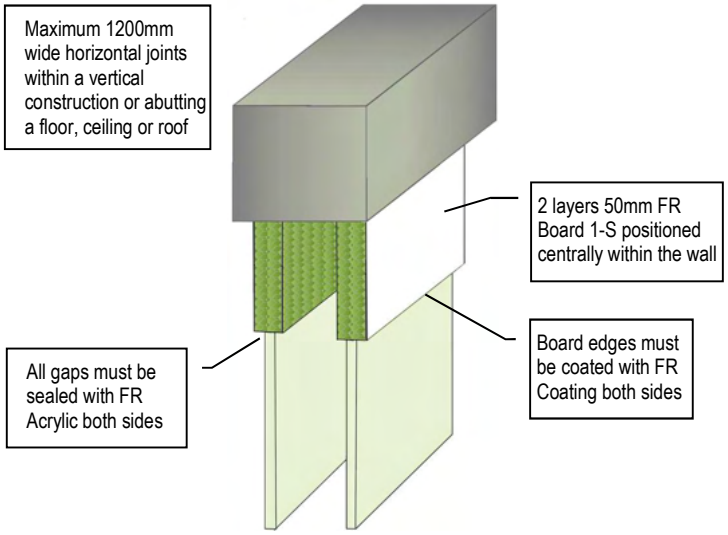
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

≥ 75MM DRYWALLS



HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

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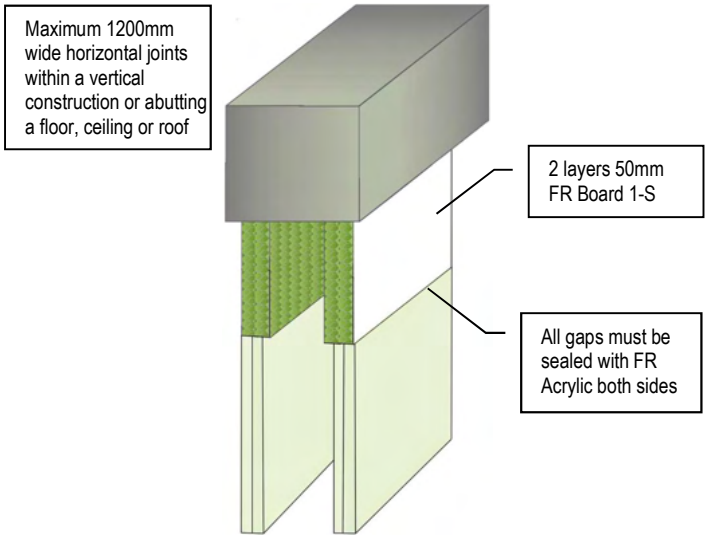

VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

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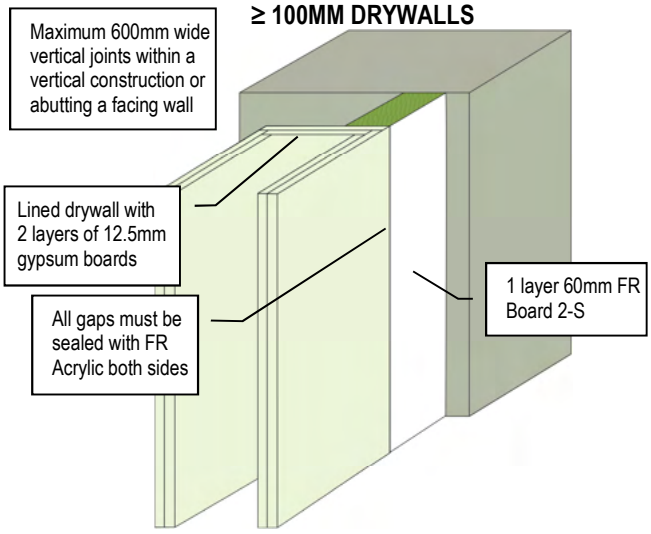

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 60)

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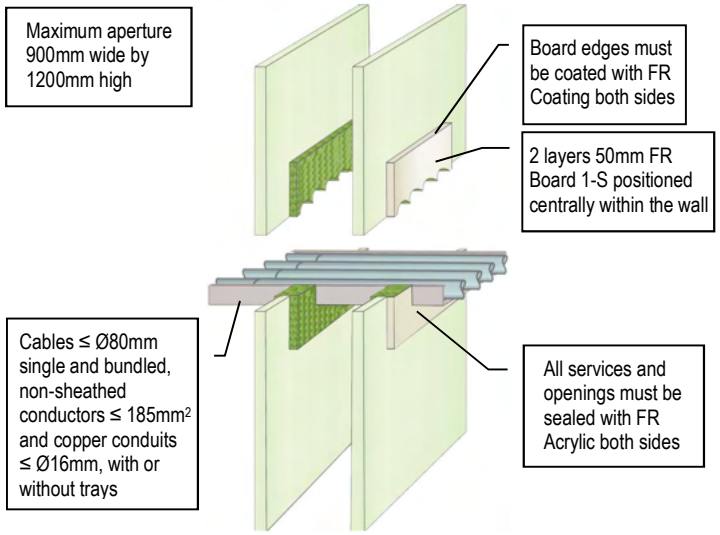

CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)

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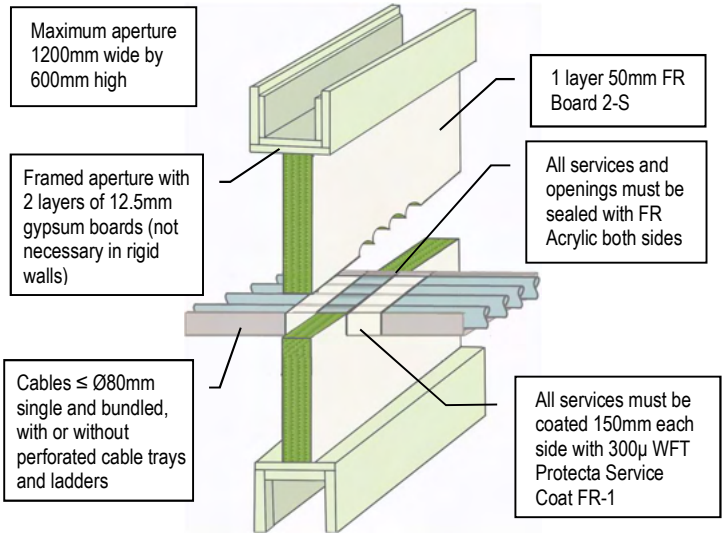
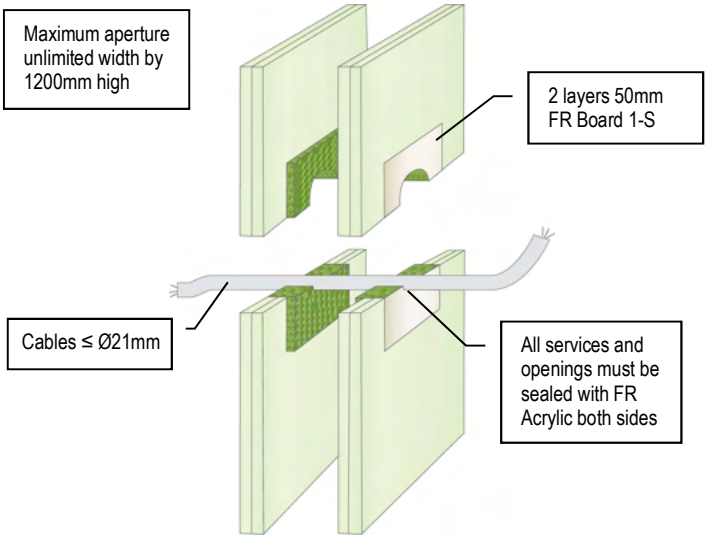


CABLES FIRE RESISTANCE EI 60 (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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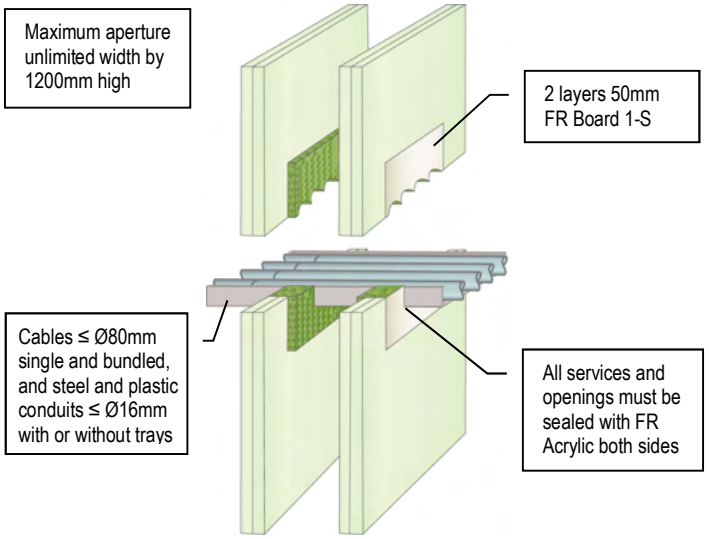
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 120)

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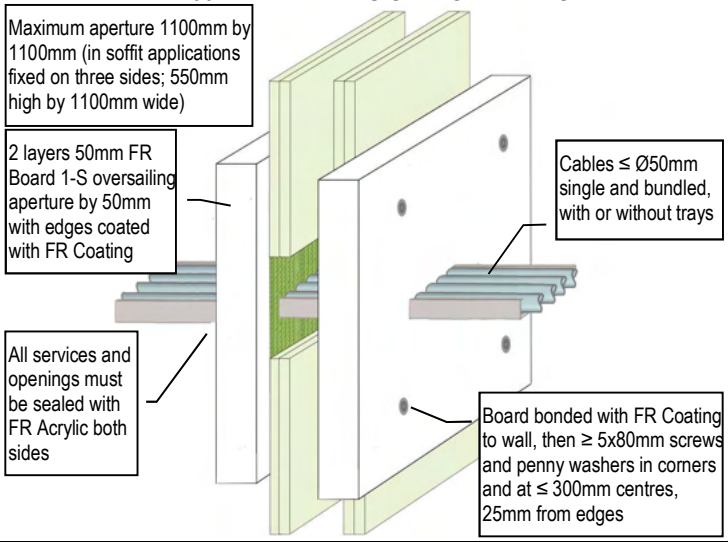
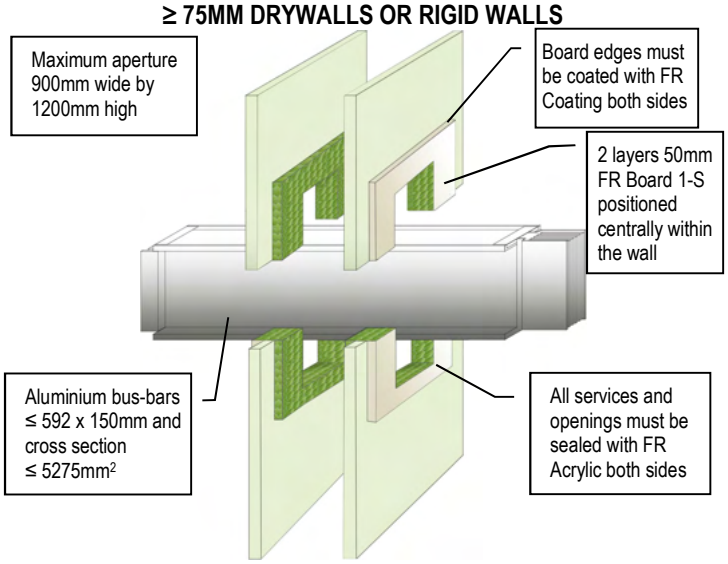


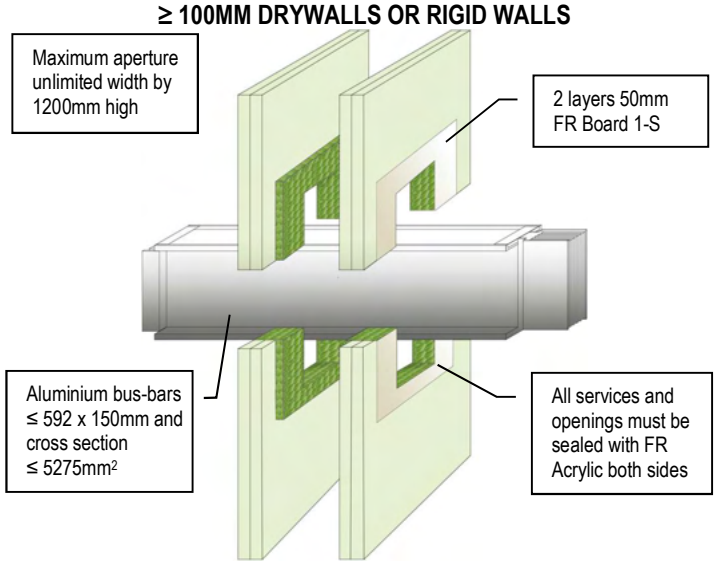
BUS-BARS FIRE RESISTANCE EI 20 (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



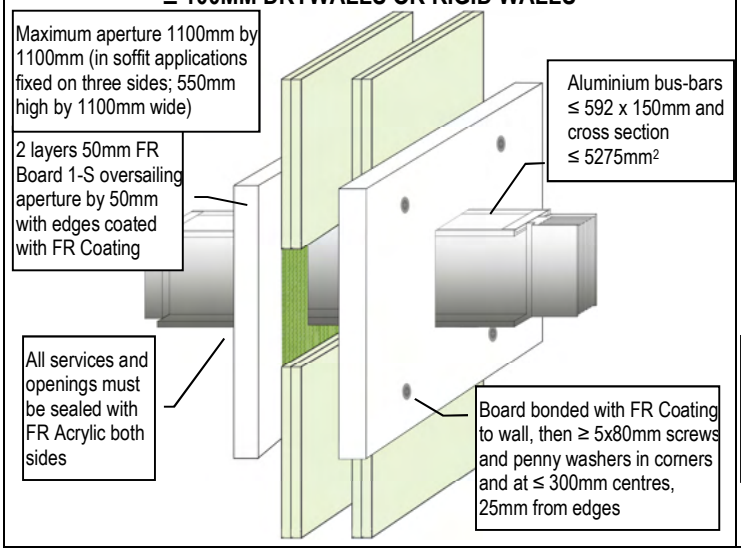
BUS-BARS FIRE RESISTANCE EI 20 (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



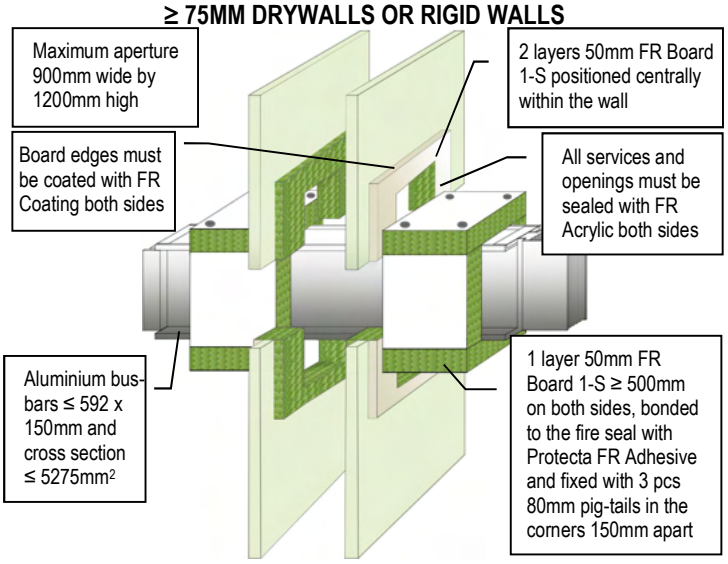
BUS-BARS FIRE RESISTANCE EI 20 (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



BUS-BARS FIRE RESISTANCE EI 60 (E60)

≥ 75MM DRYWALLS OR RIGID WALLS



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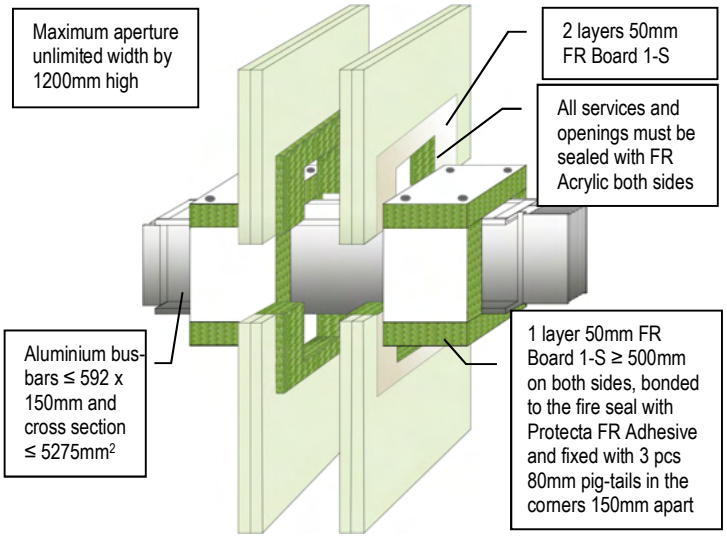
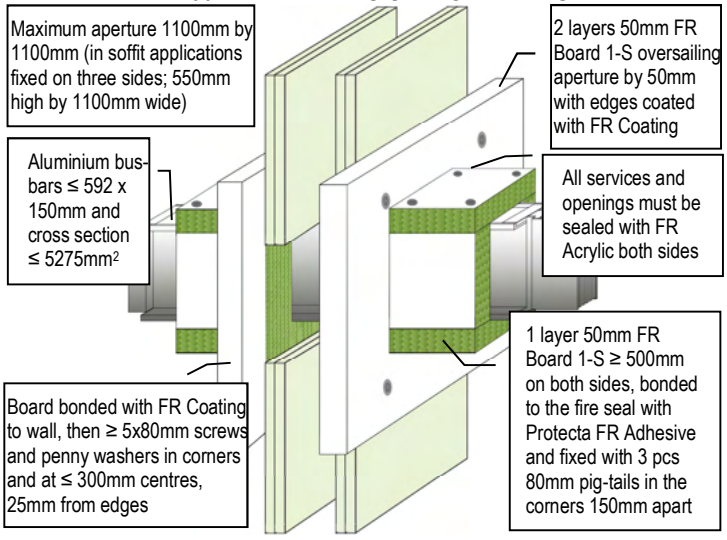
BUS-BARS FIRE RESISTANCE EI 90 (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



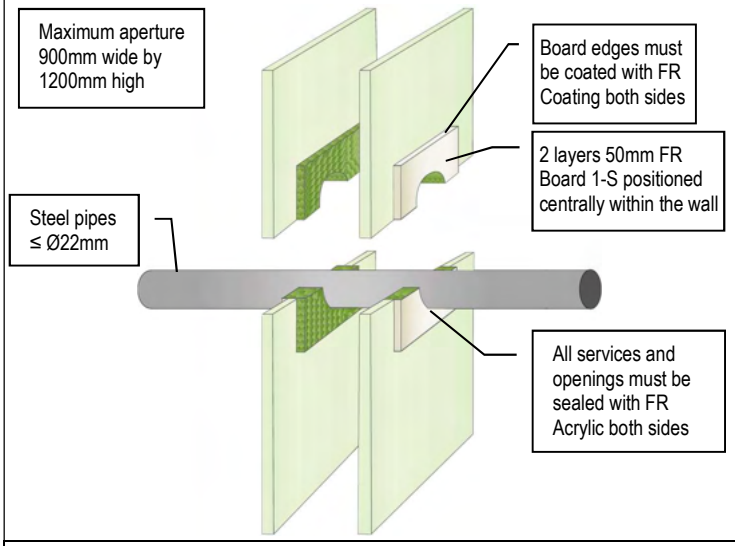
BUS-BARS FIRE RESISTANCE EI 90 (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



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

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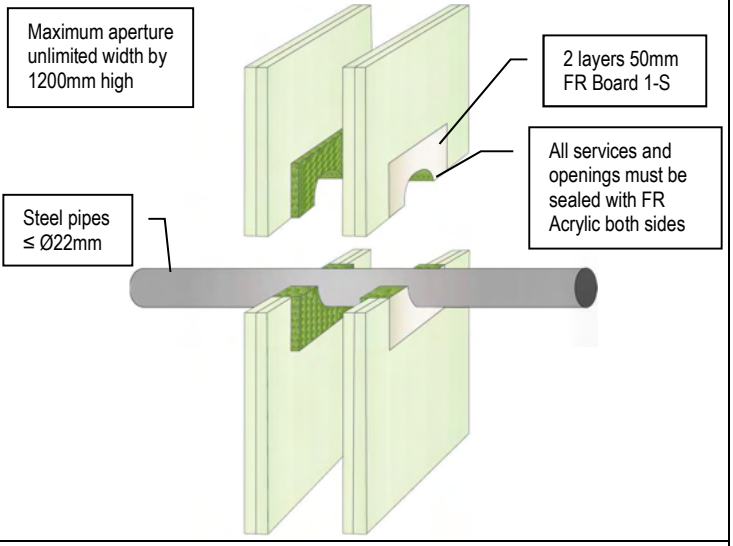
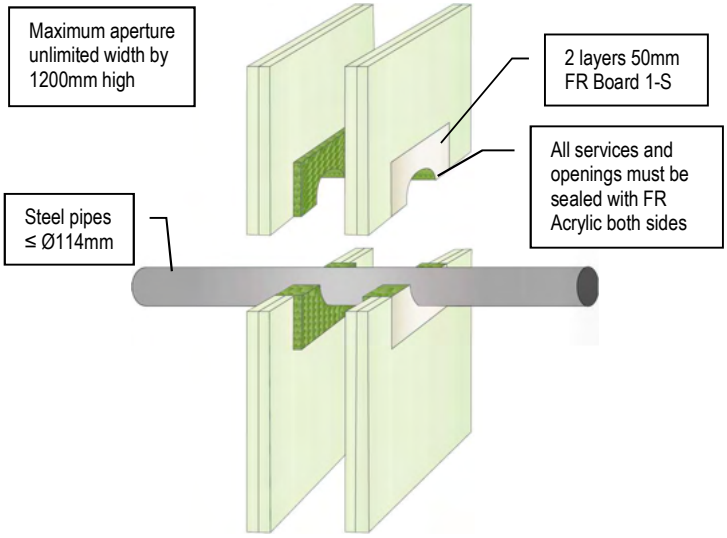


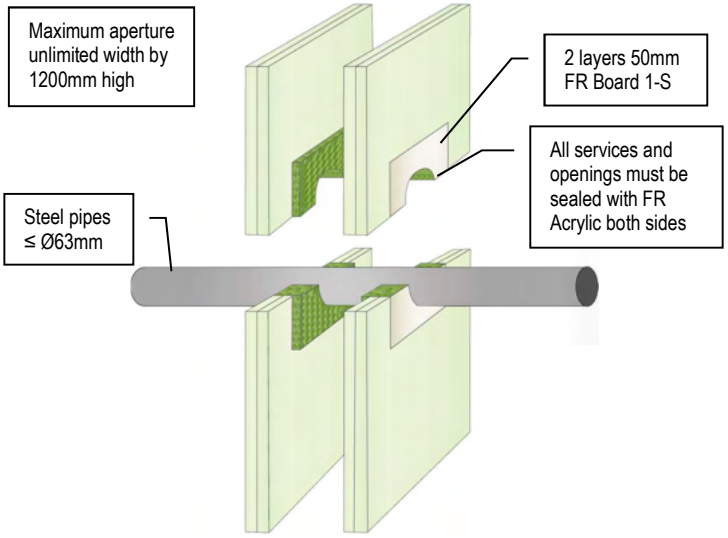
STEEL PIPES FIRE RESISTANCE EI 20 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 30 C/U (E 120)

≥ 120MM DRYWALLS OR RIGID WALLS



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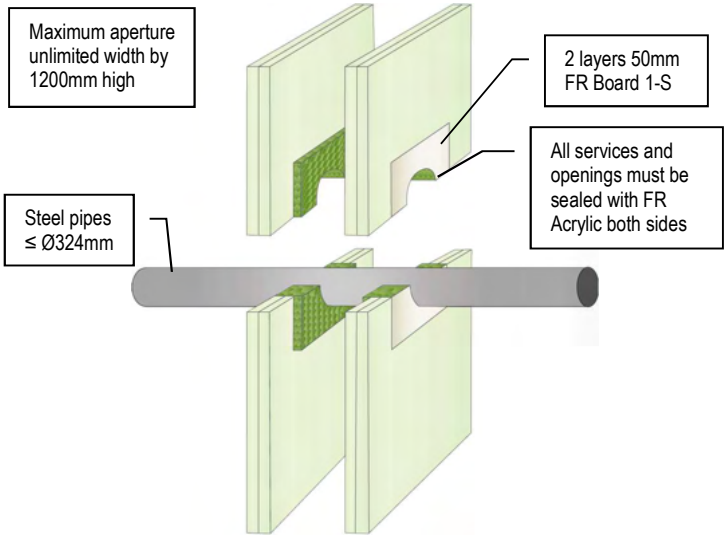
STEEL PIPES FIRE RESISTANCE EI 20 C/U (E 120)

≥ 120MM DRYWALLS OR RIGID WALLS



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

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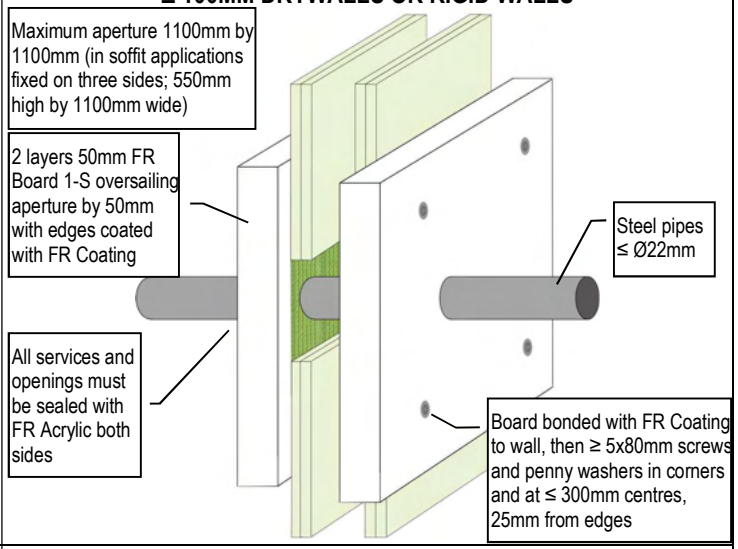

STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 60)

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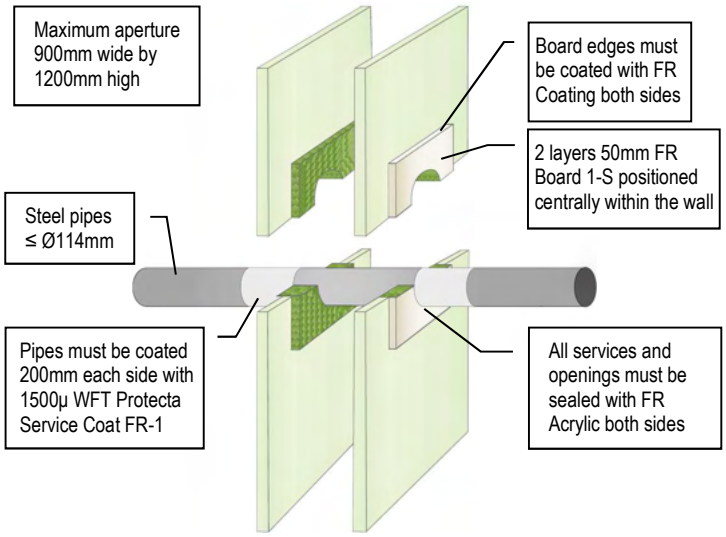
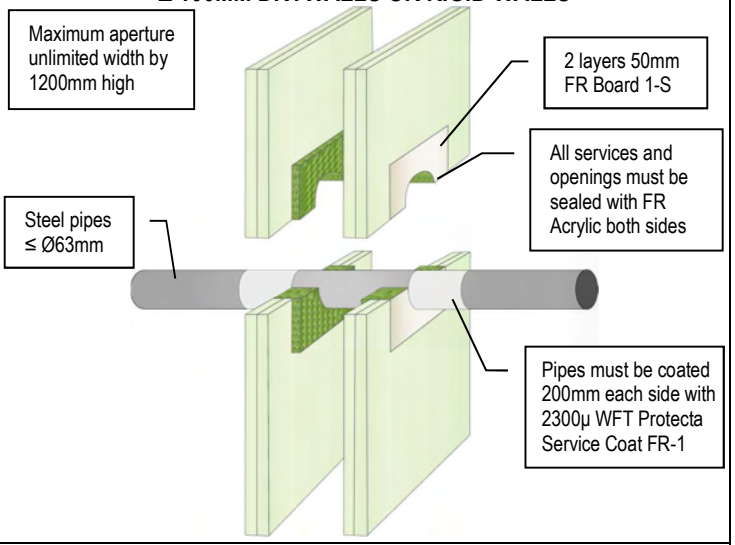


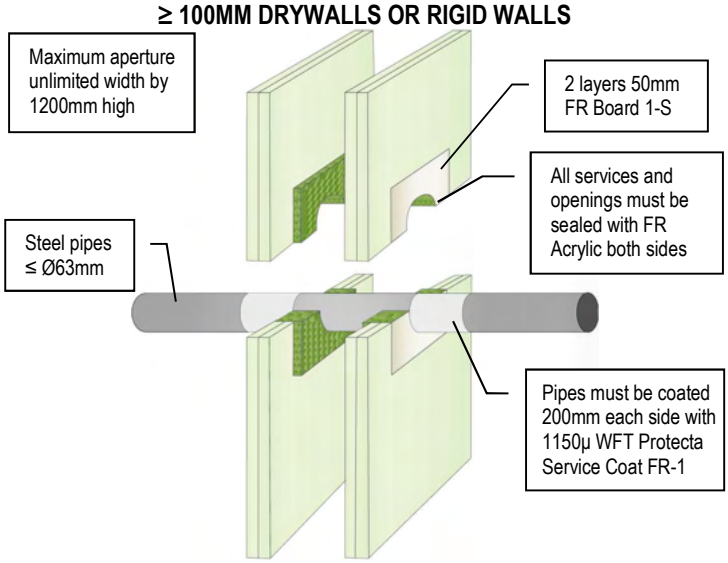
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



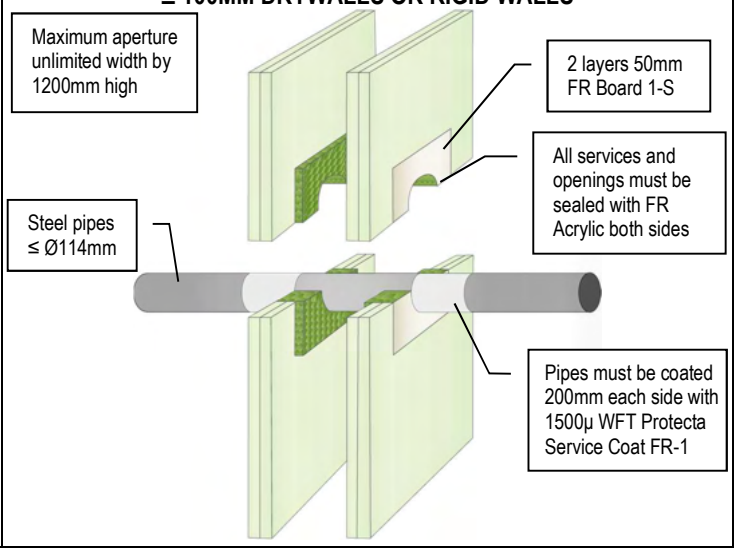
STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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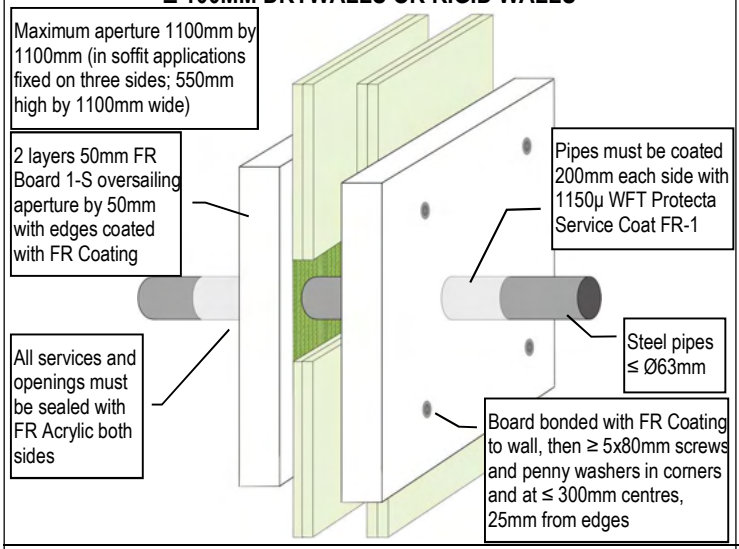
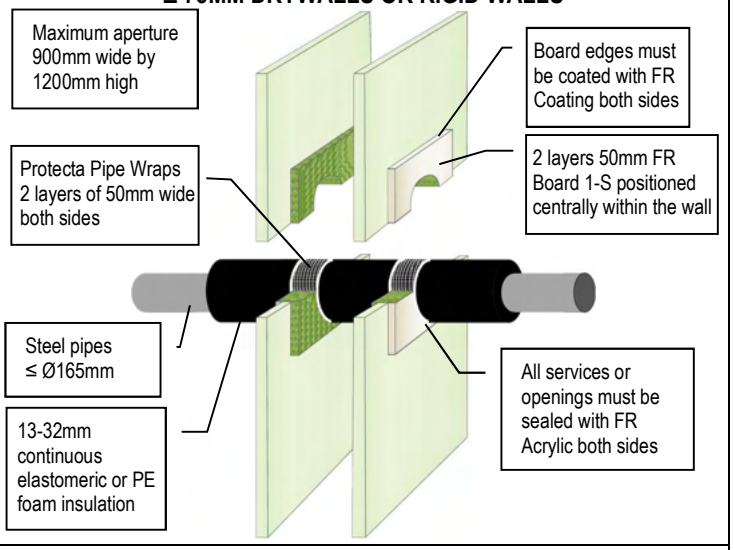
STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



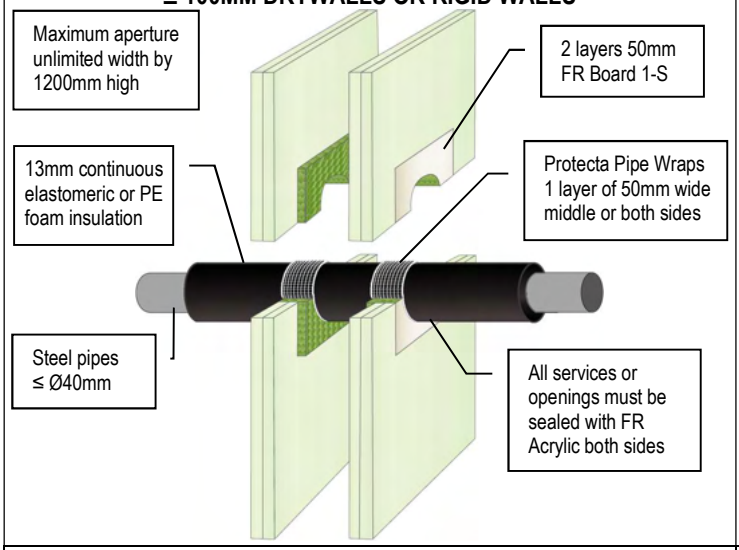
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



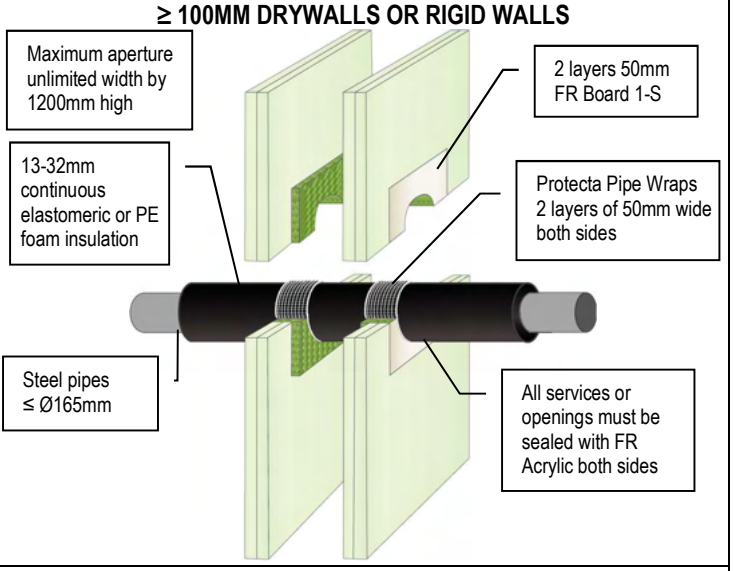
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 U/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



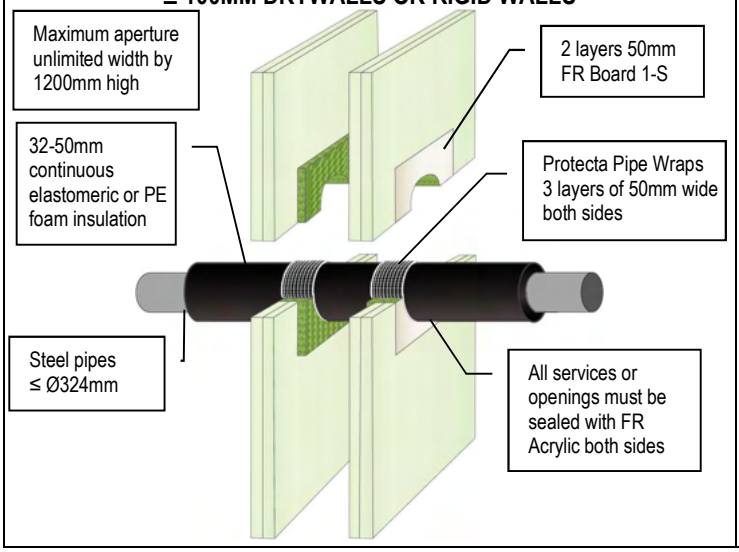
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



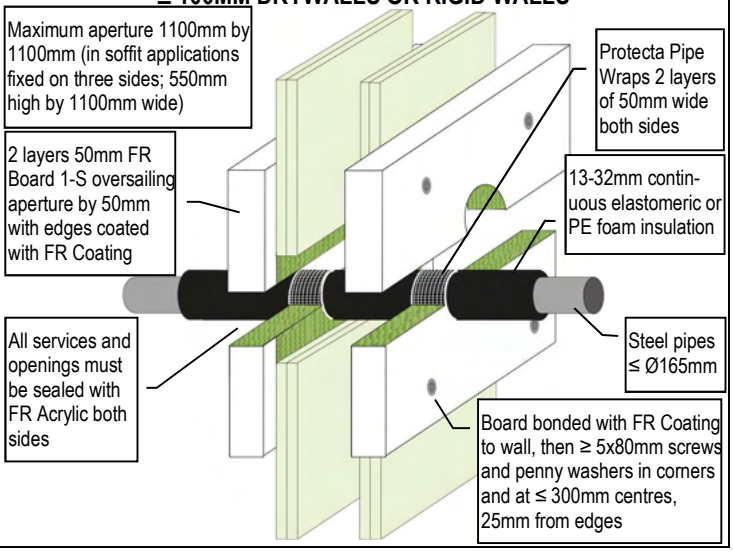
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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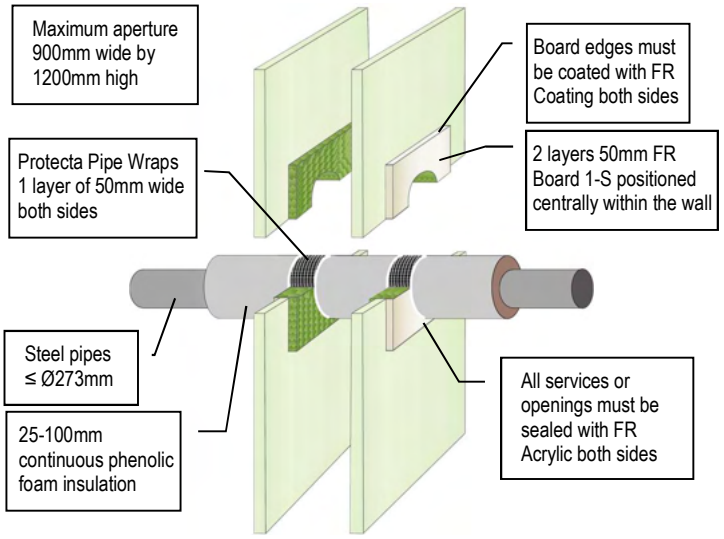
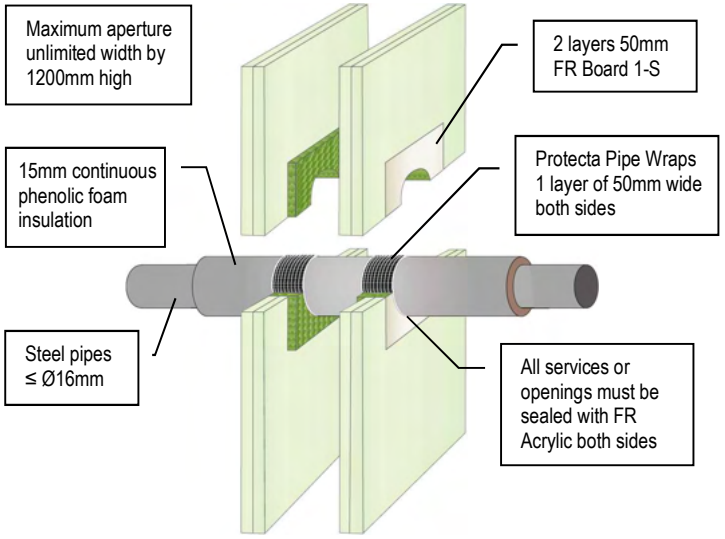


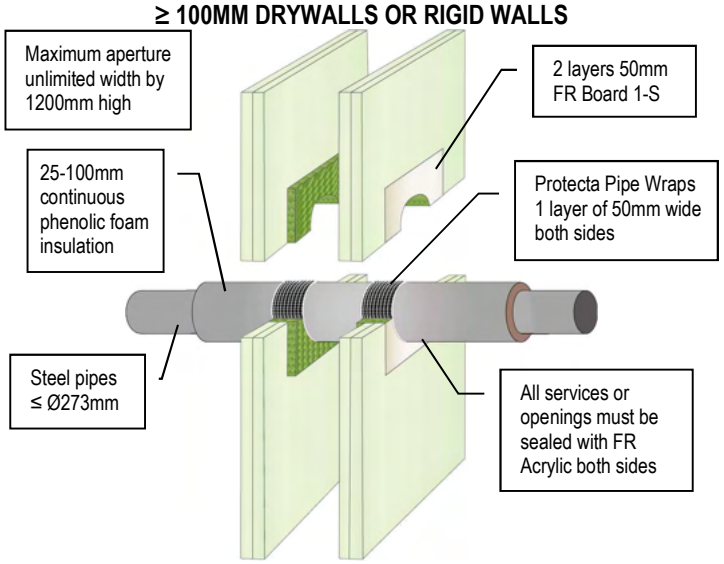
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



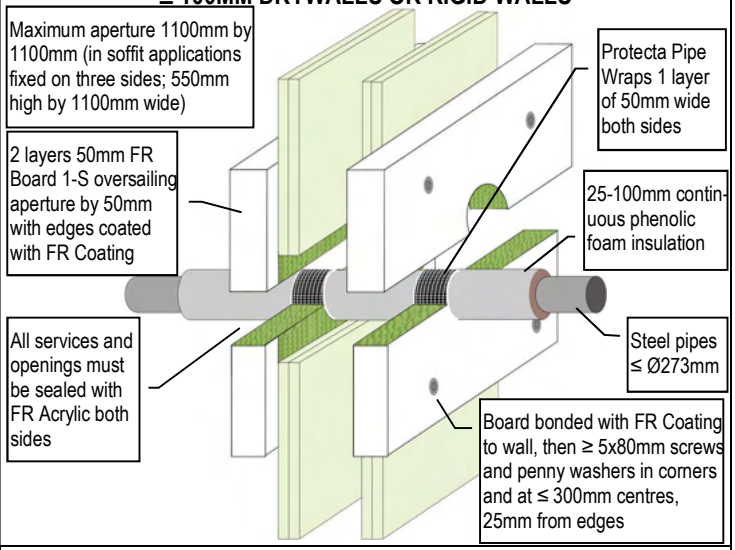
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



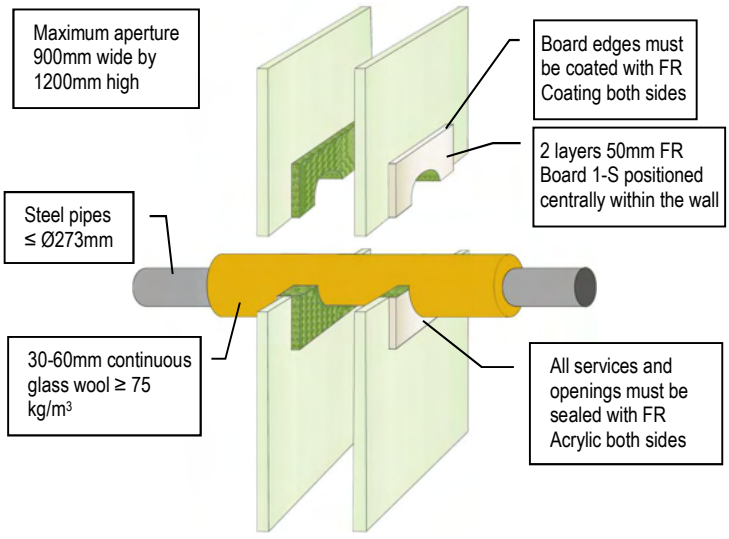
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



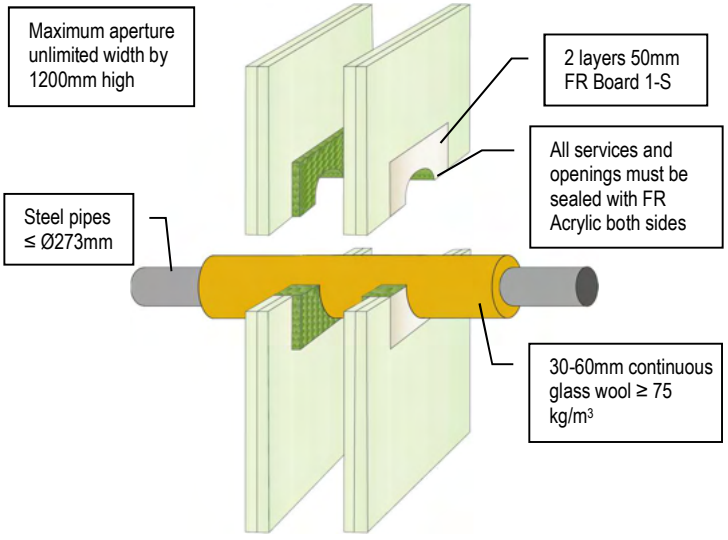
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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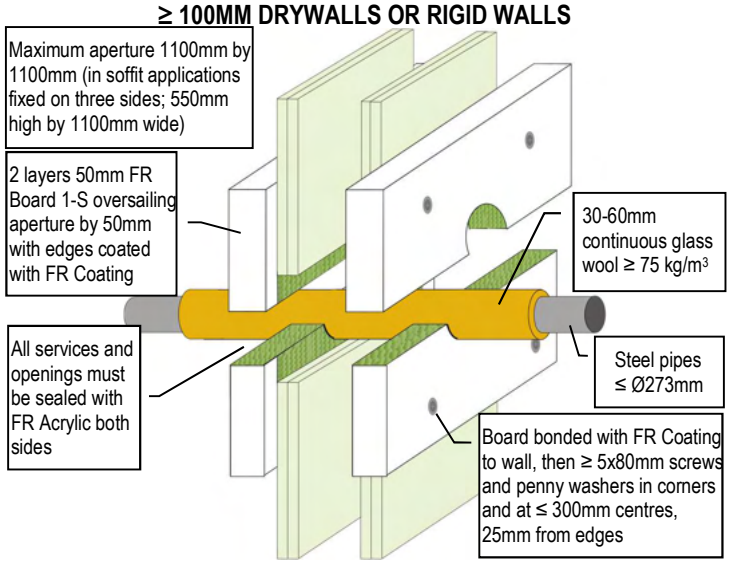
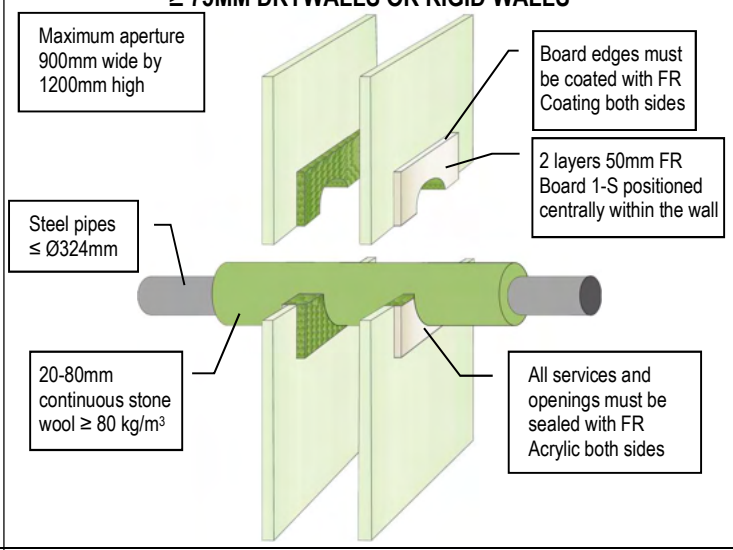
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



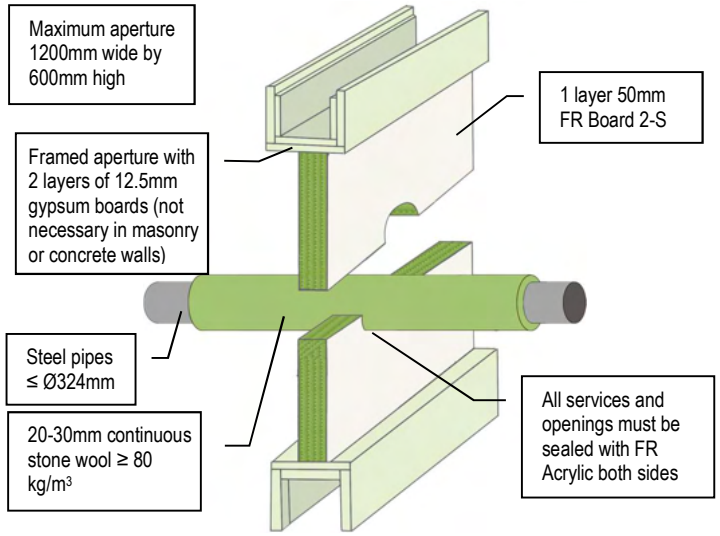
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



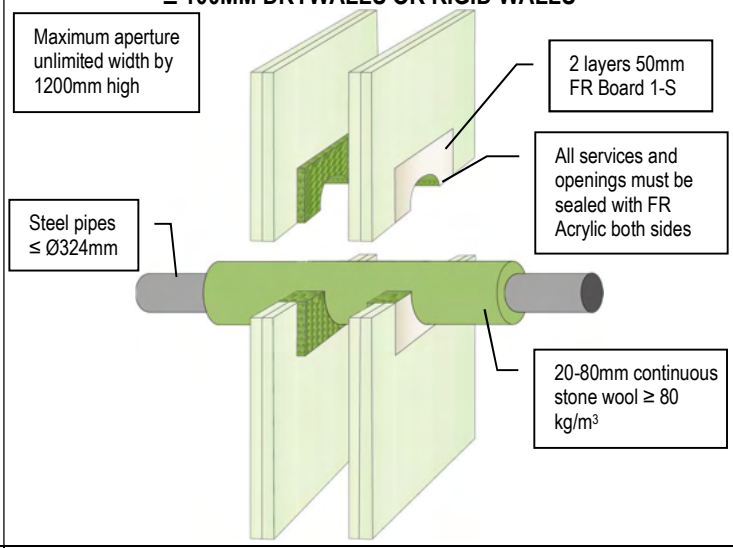
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



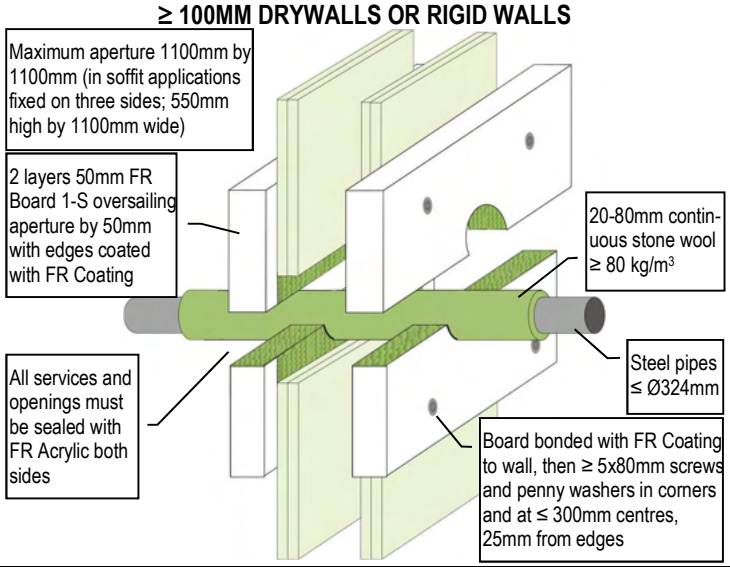
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



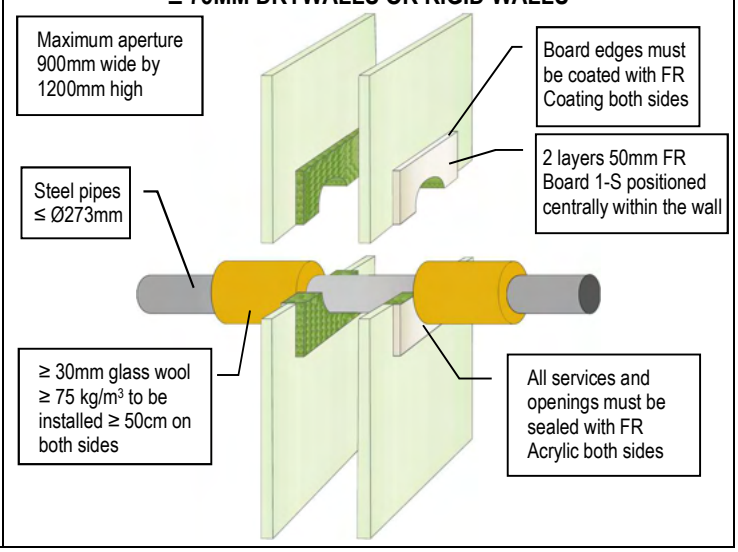
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



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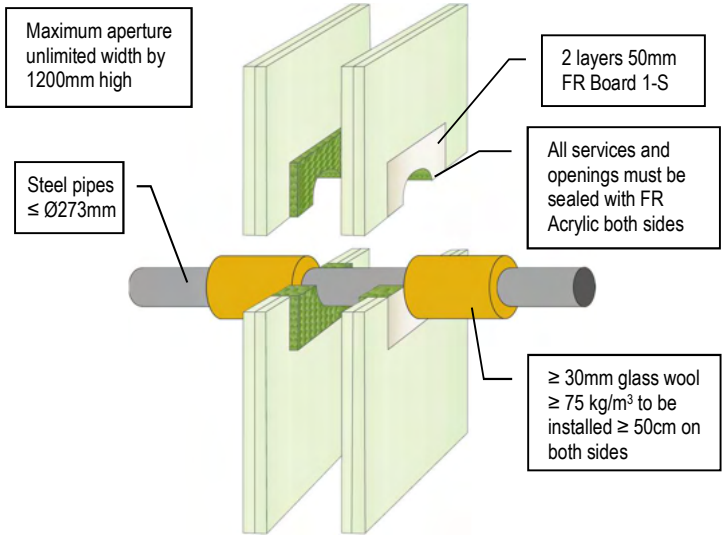
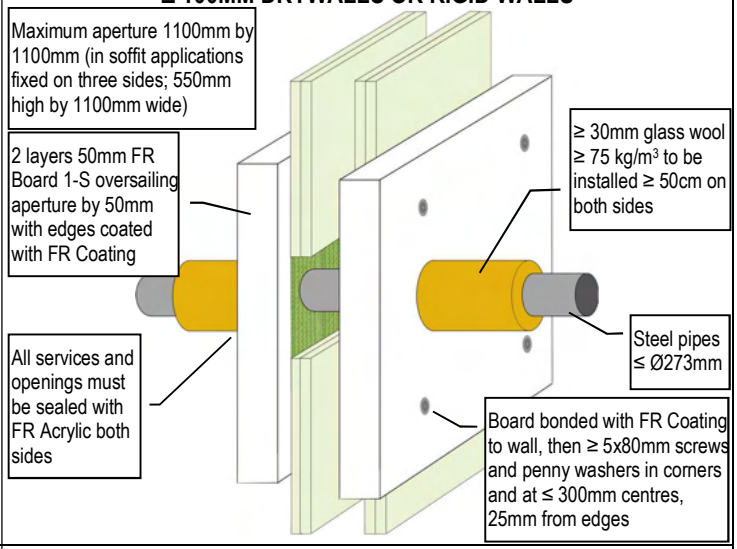
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



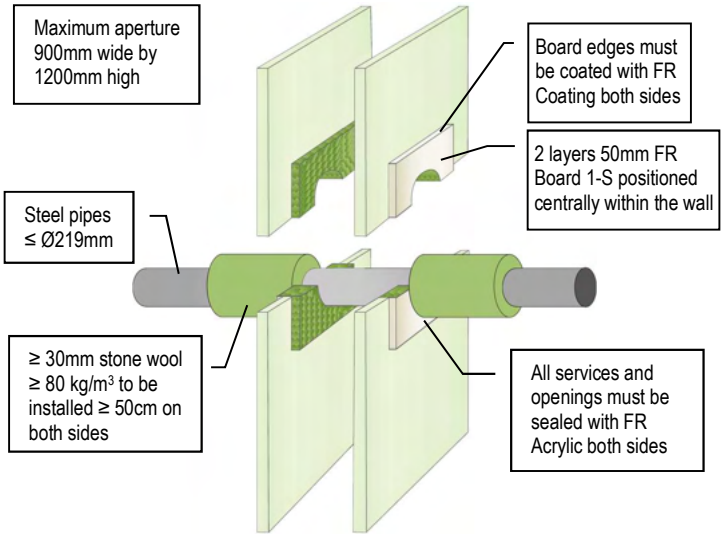
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



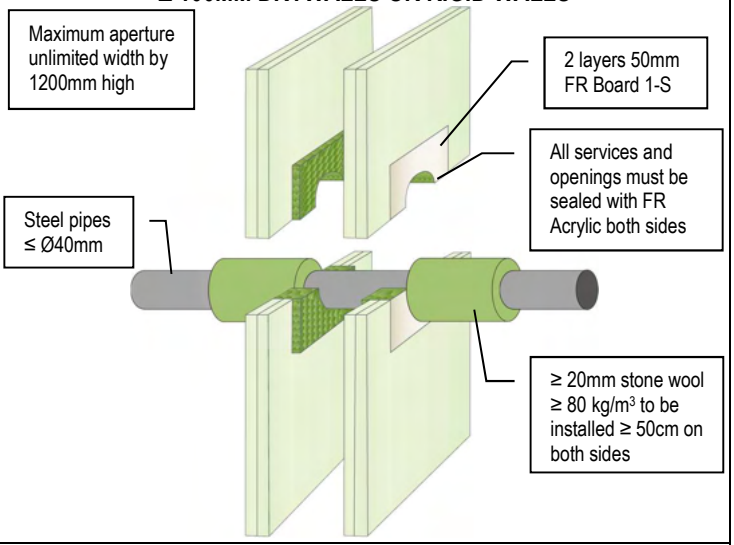
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



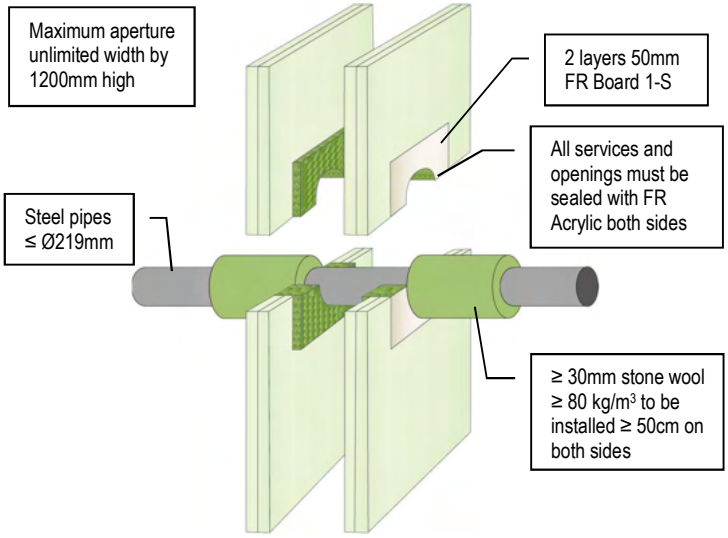
STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



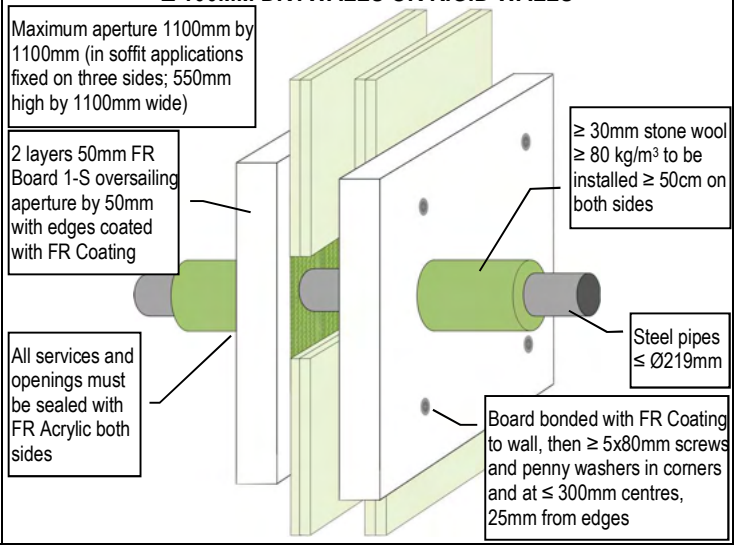
STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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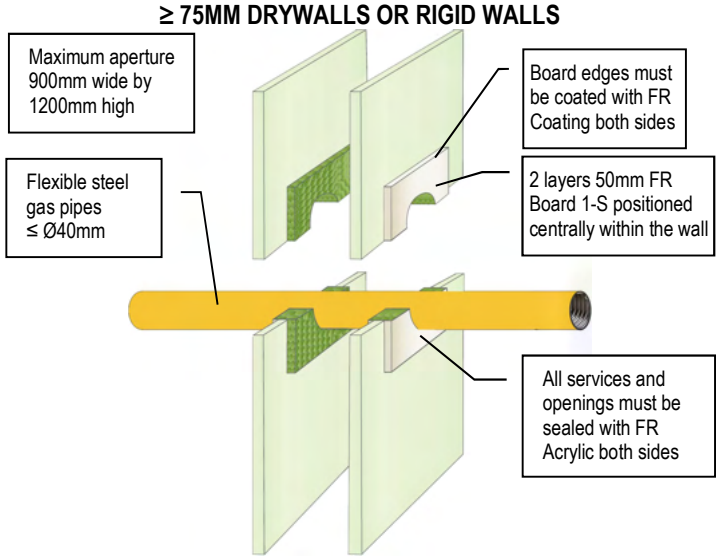
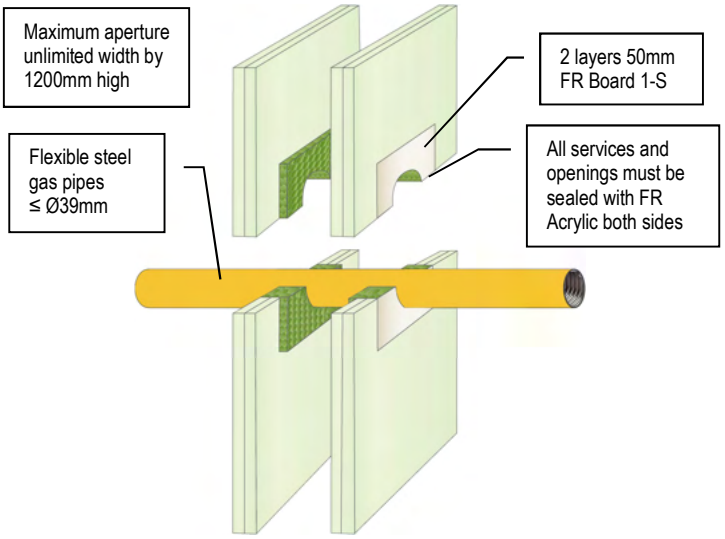
GAS PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



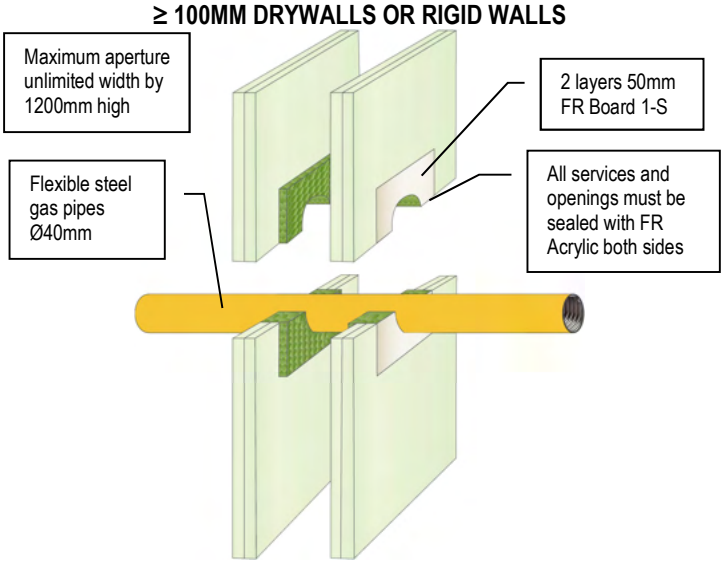
GAS PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



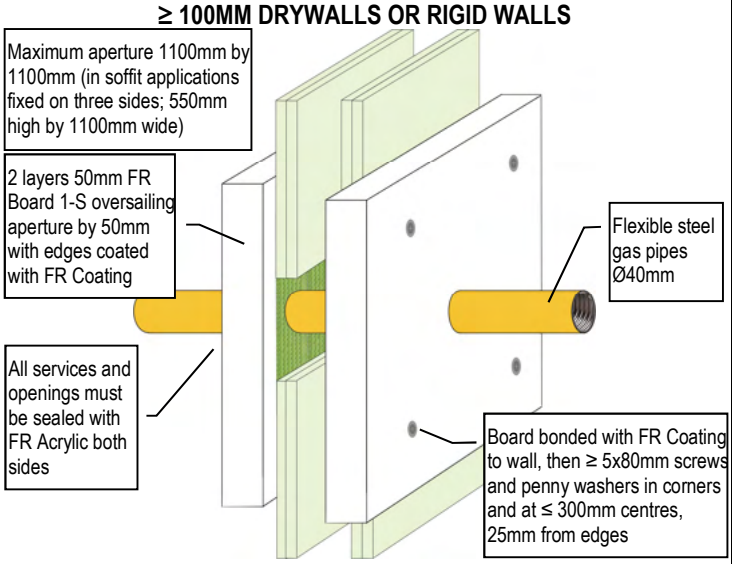
GAS PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



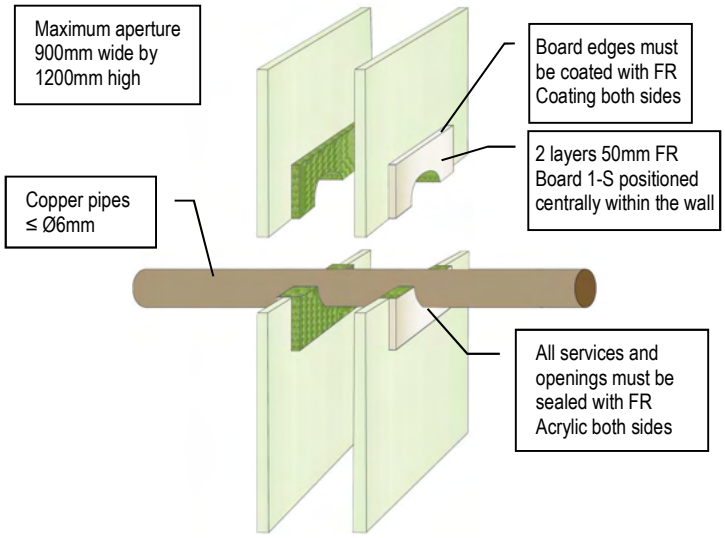
GAS PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



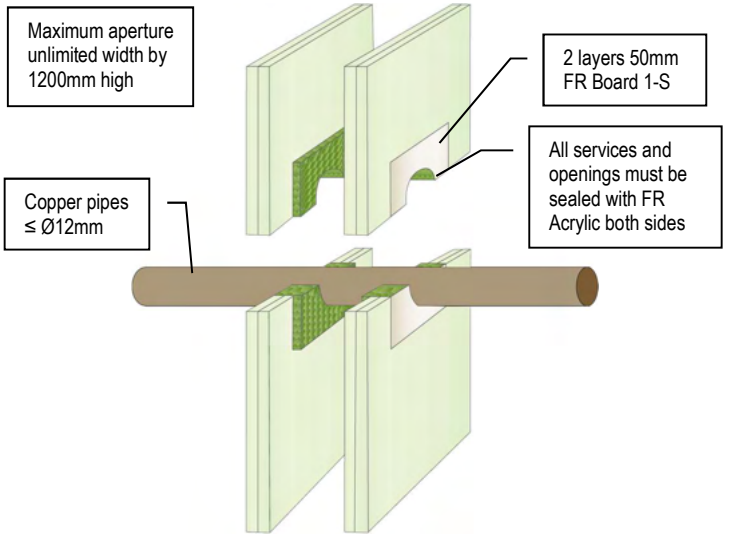
COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 120MM DRYWALLS OR RIGID WALLS



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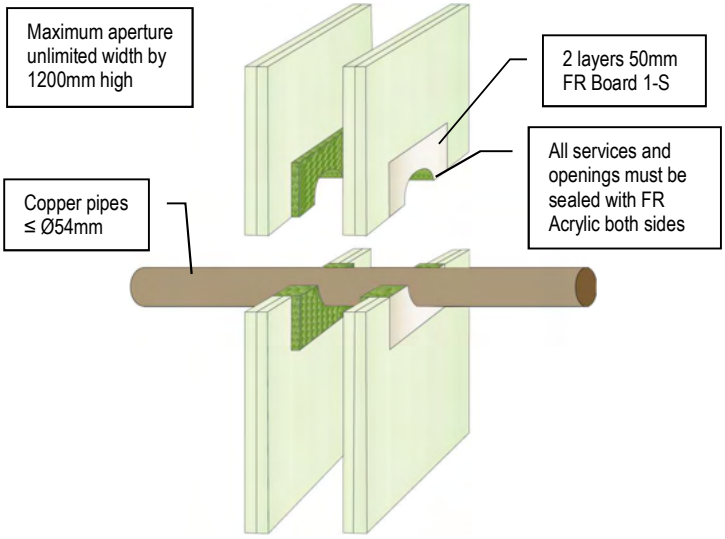
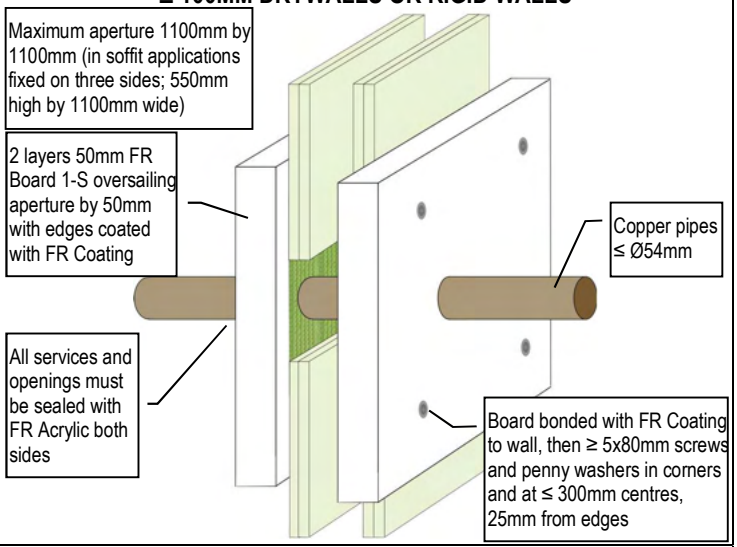
COPPER PIPES FIRE RESISTANCE EI 15 C/C (E 120)

≥ 120MM DRYWALLS OR RIGID WALLS



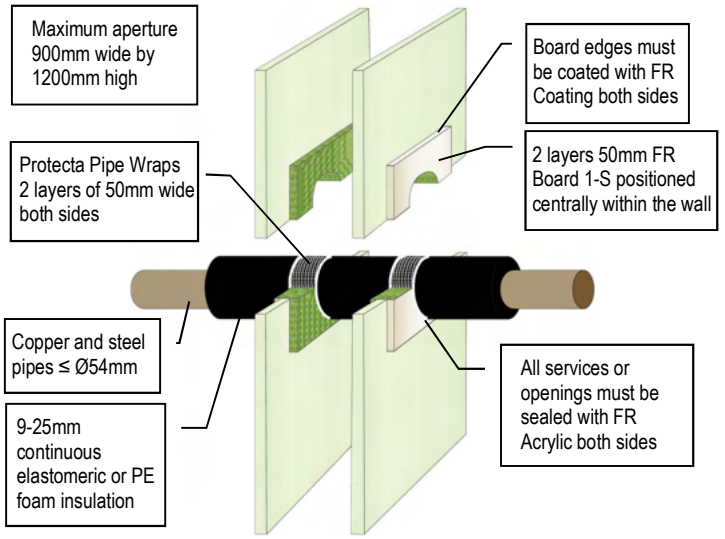
COPPER PIPES FIRE RESISTANCE EI 15 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



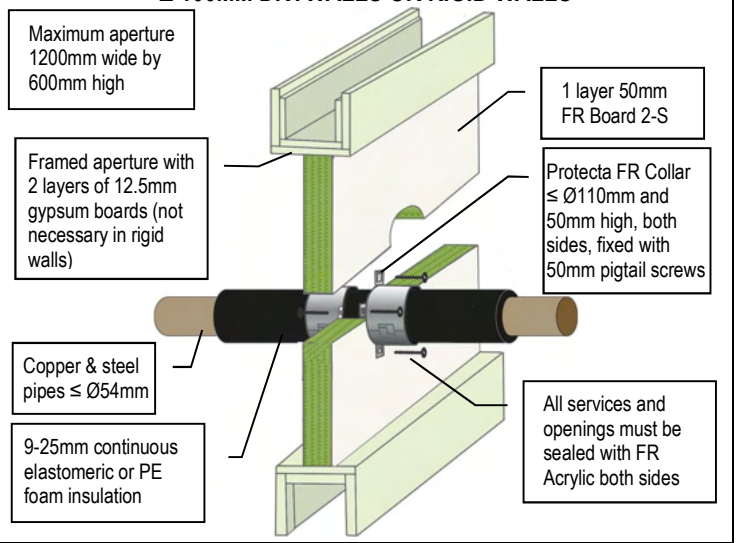
COPPER & STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



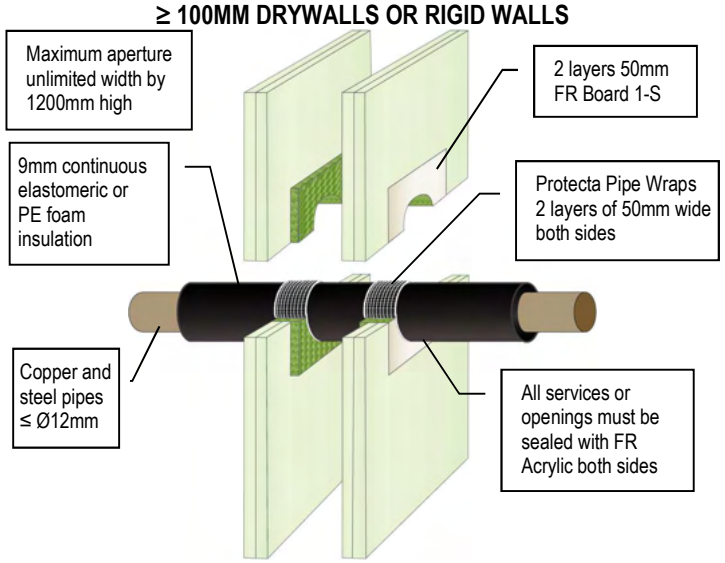
COPPER & STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



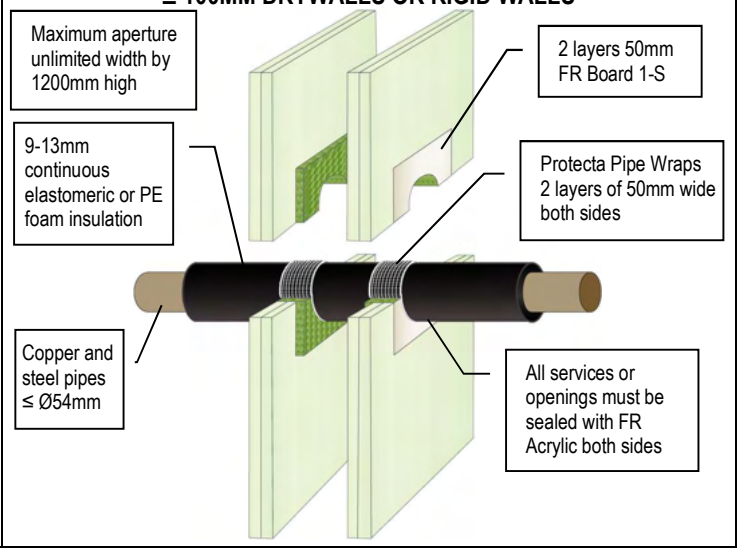
COPPER & STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



COPPER & STEEL PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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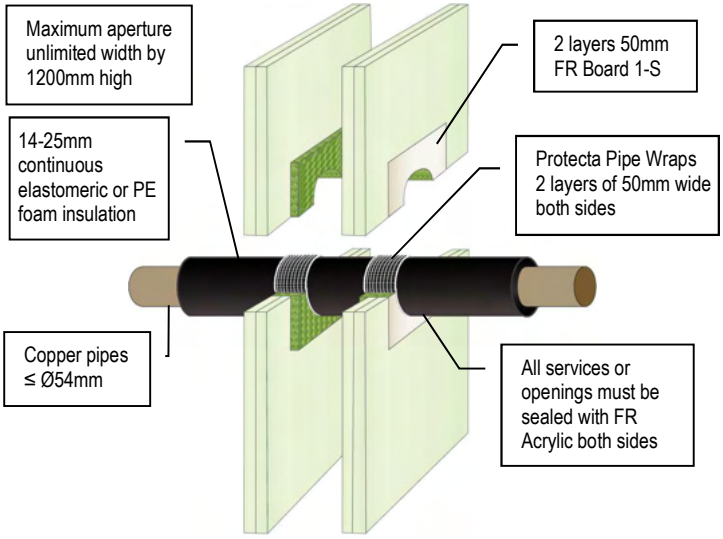
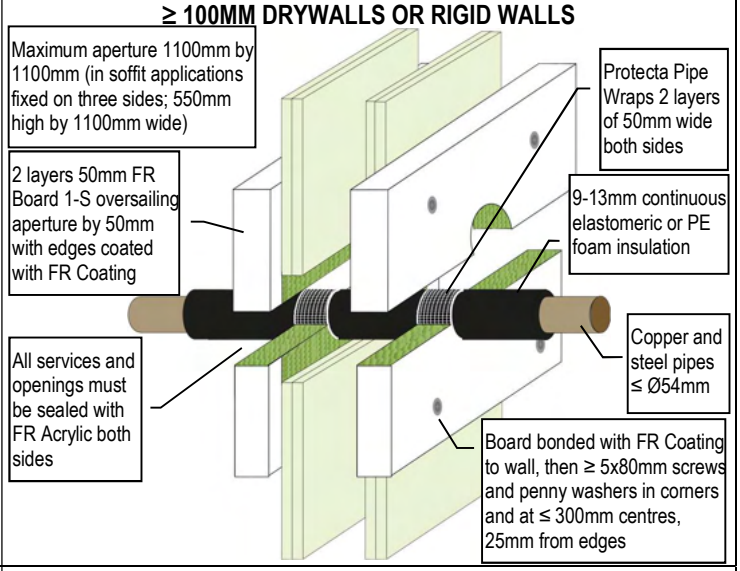
INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



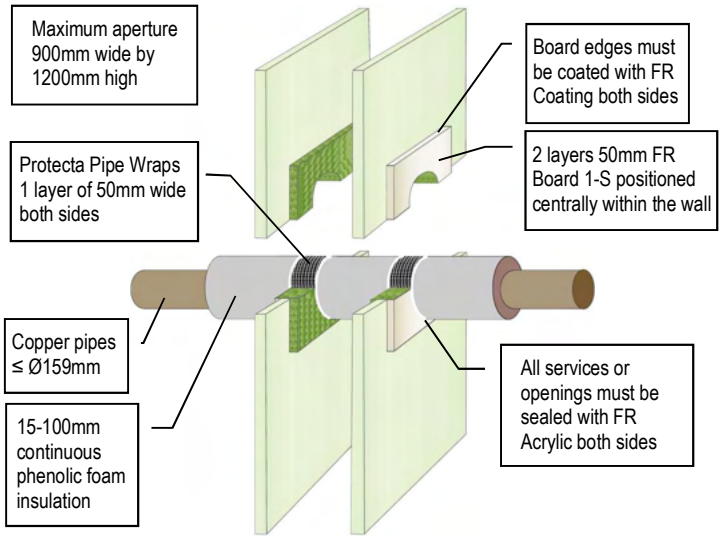
COPPER & STEEL PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



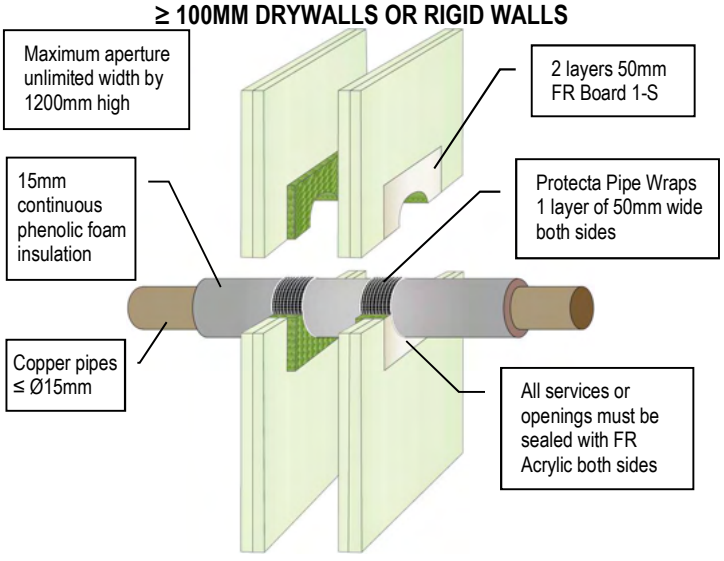
INSULATED COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



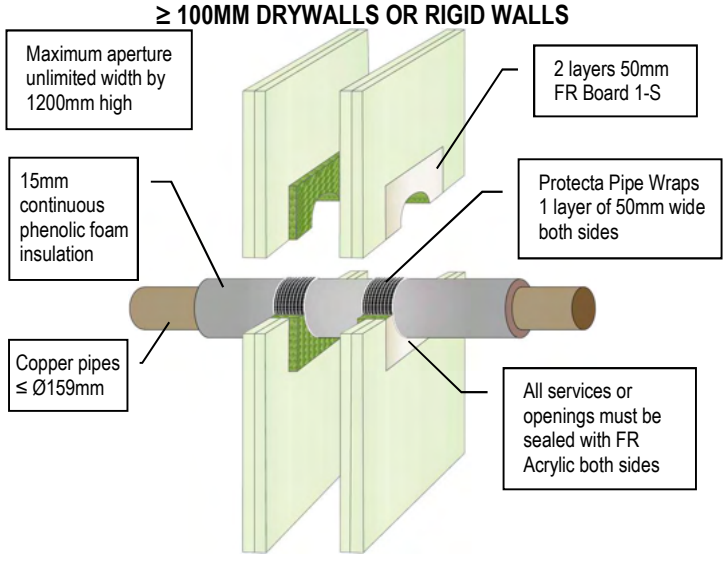
INSULATED COPPER PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



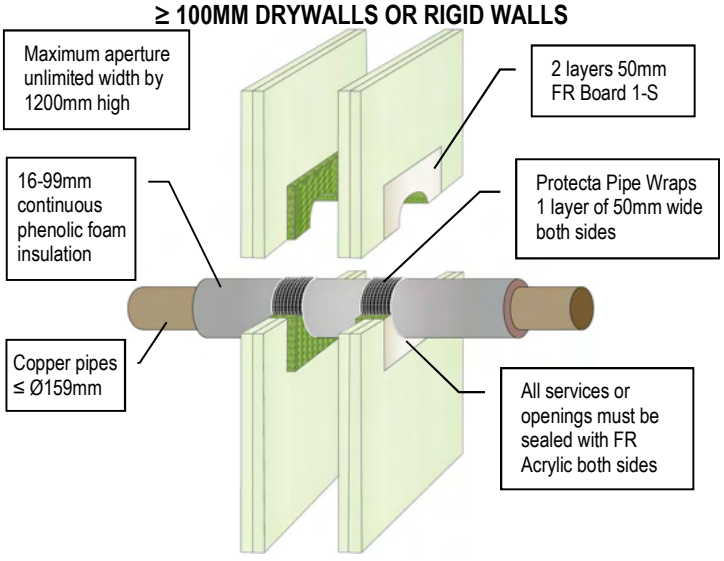
INSULATED COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



INSULATED COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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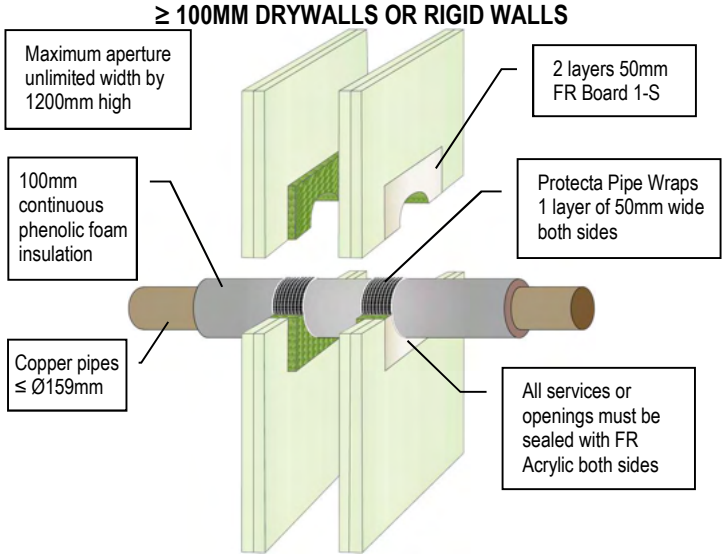
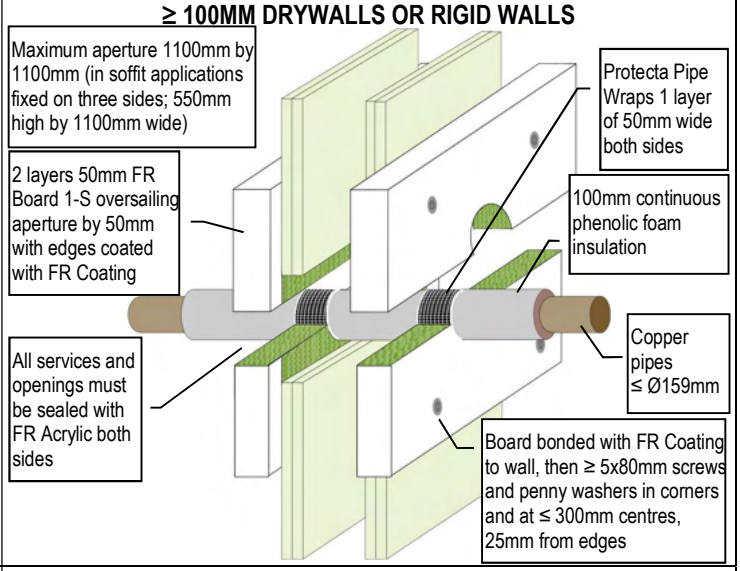
INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



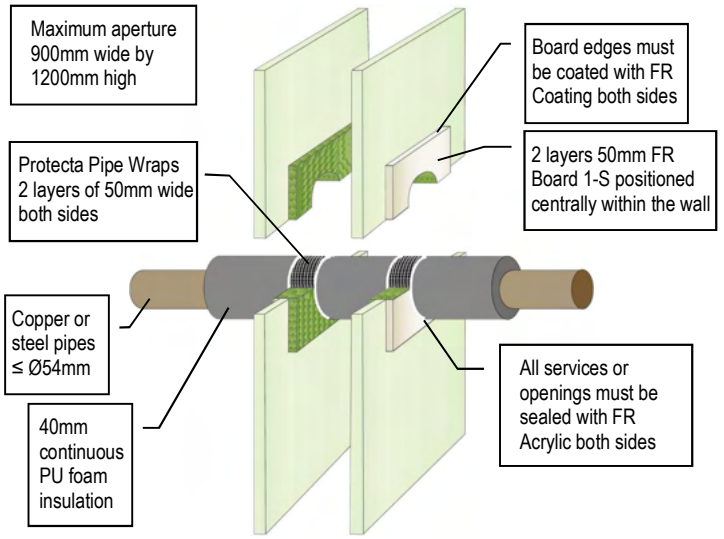
INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



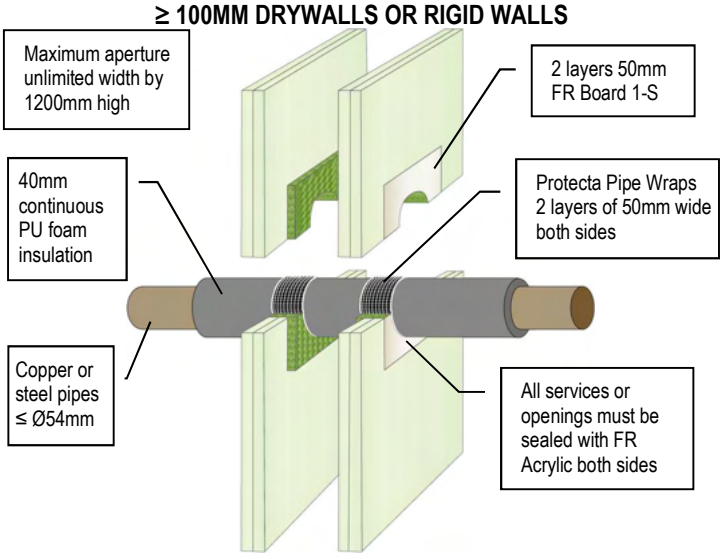
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



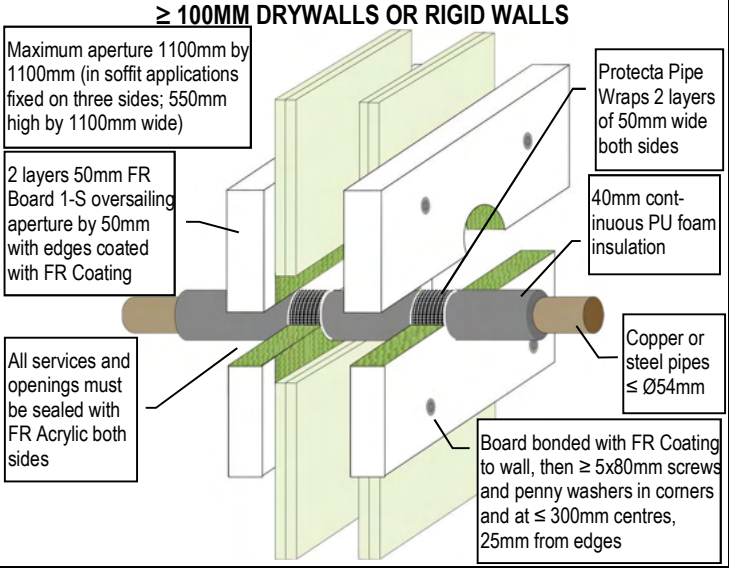
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



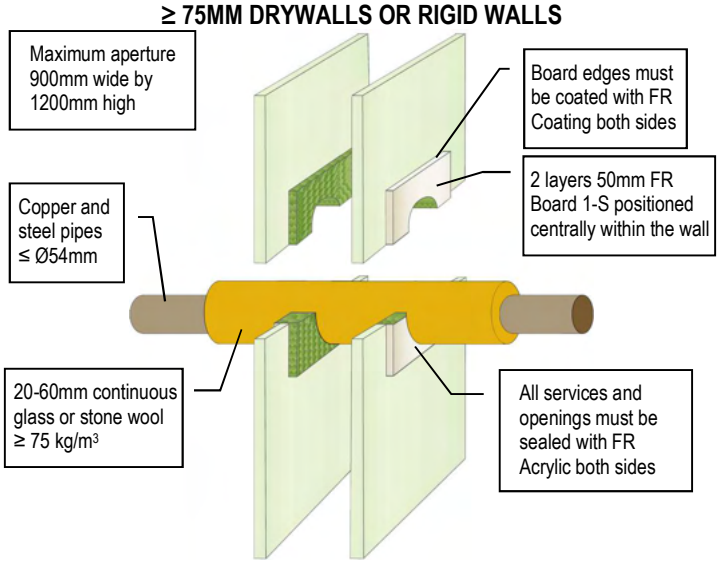
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



COPPER & STEEL PIPES FIRE RESISTANCE EI 45 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



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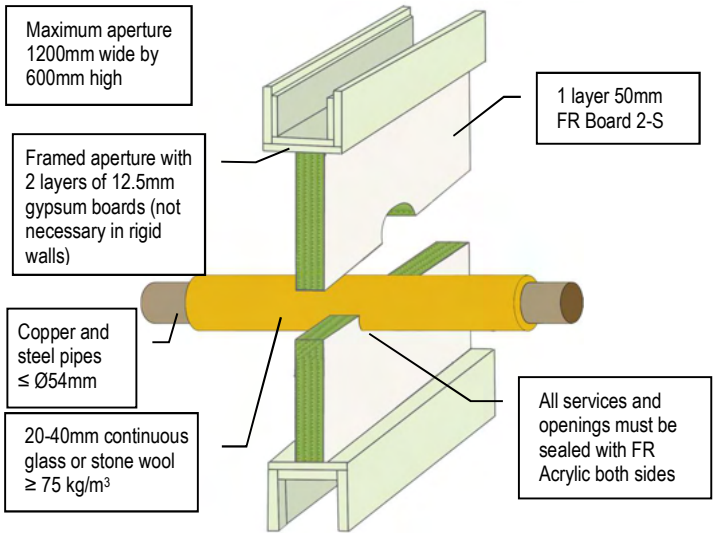
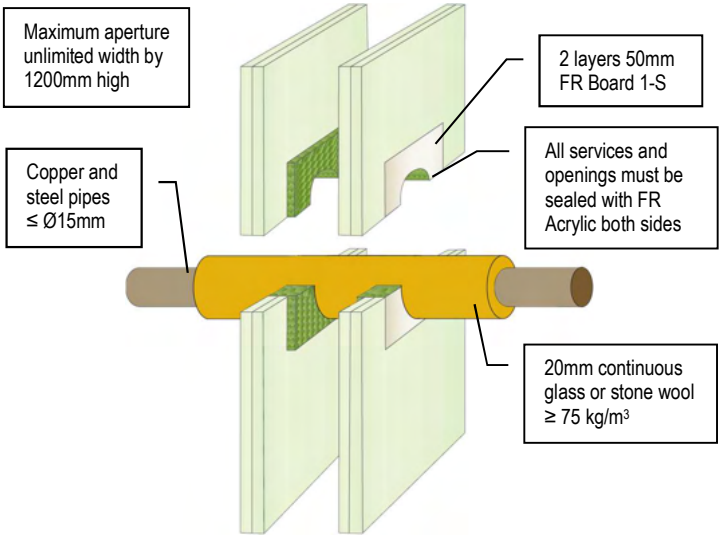
COPPER & STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



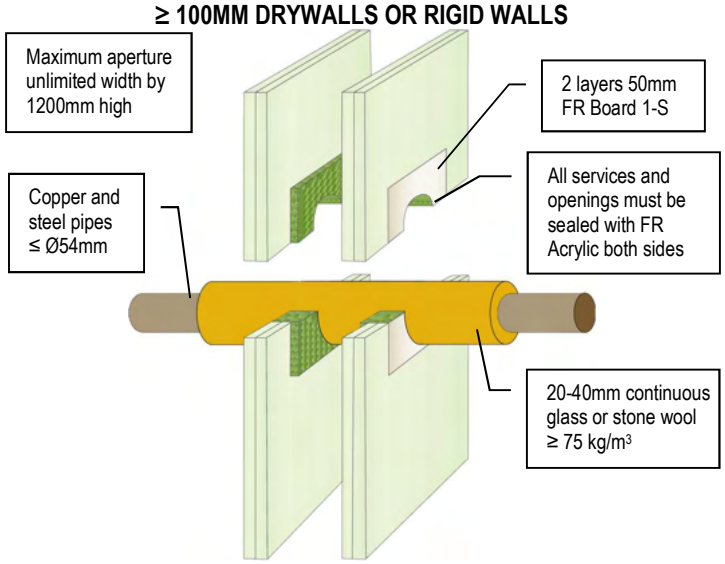
COPPER & STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



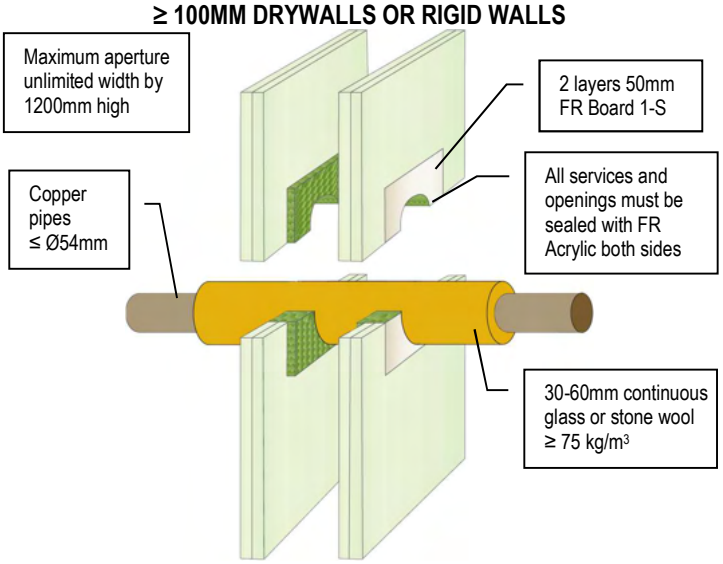
COPPER & STEEL PIPES FIRE RESISTANCE EI 45 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



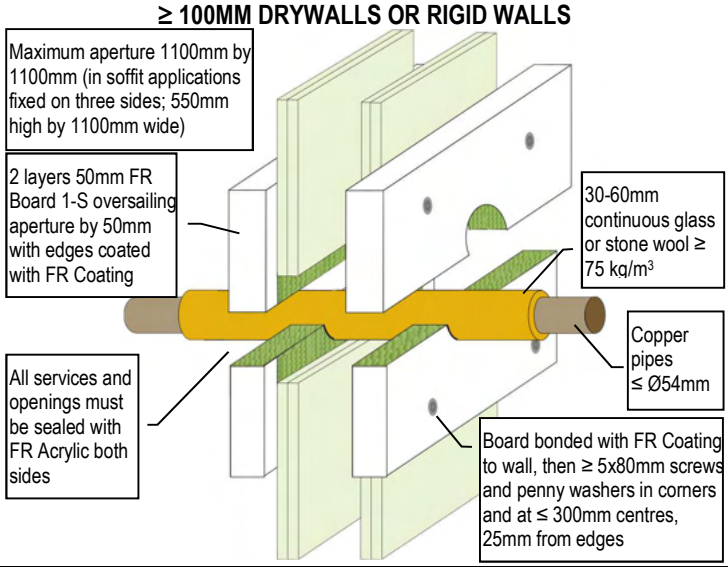
COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



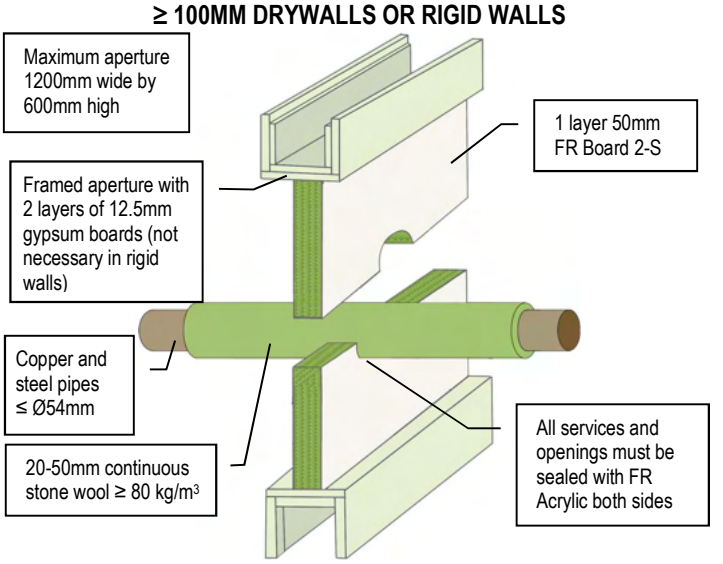
COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



COPPER & STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



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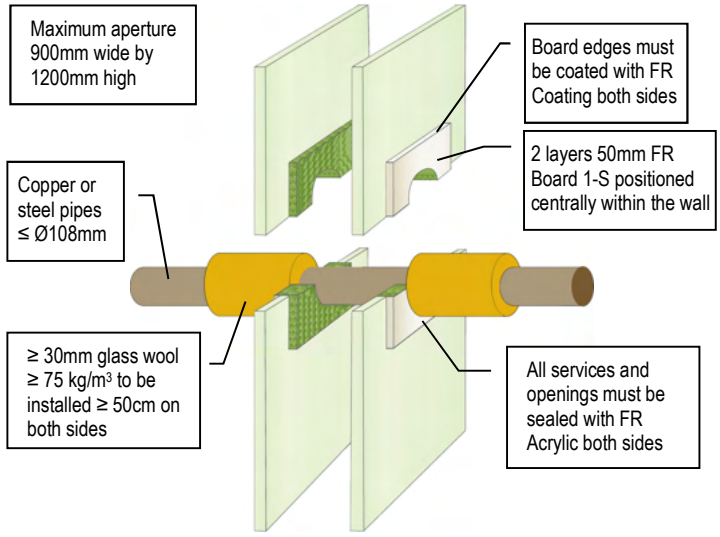
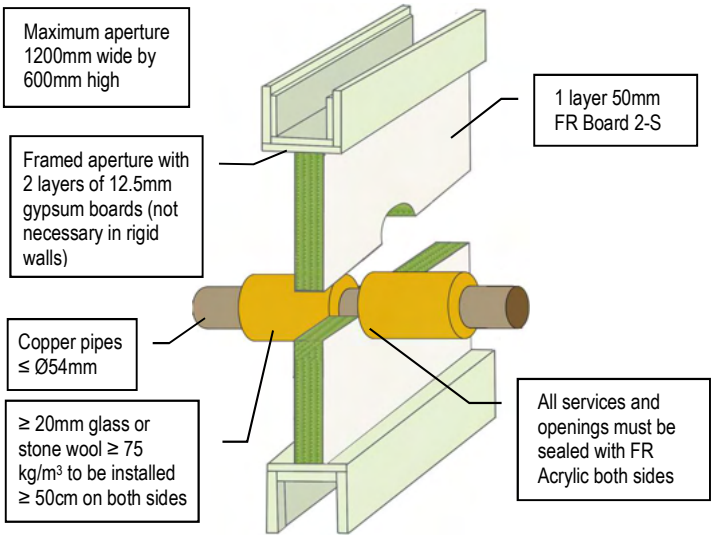
COPPER OR STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



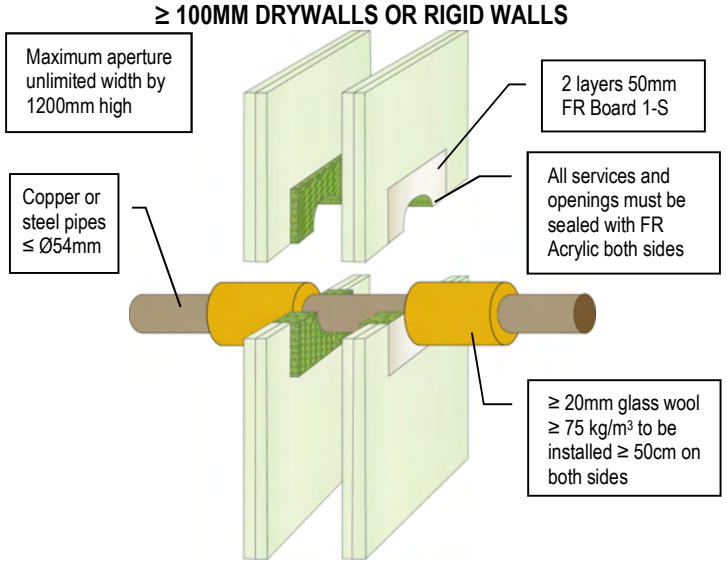
COPPER PIPES FIRE RESISTANCE EI 45 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



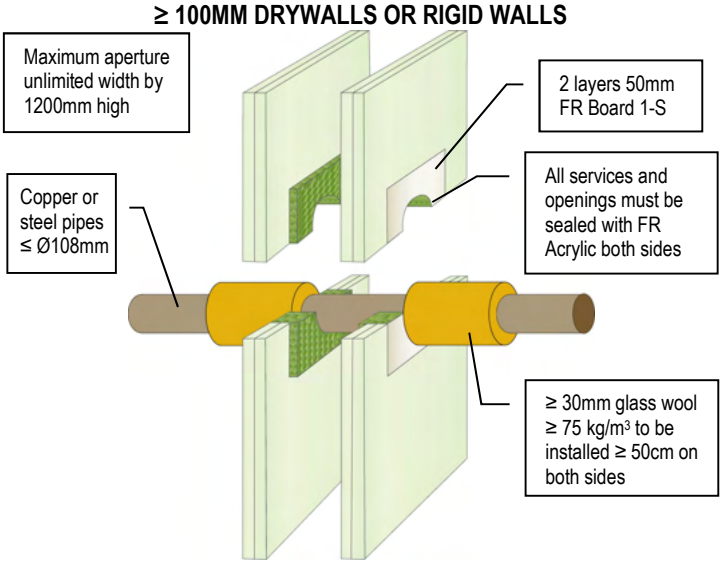
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



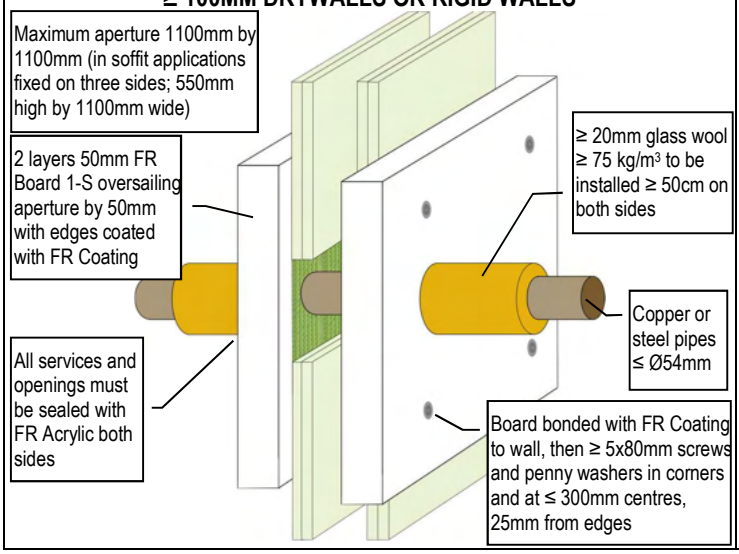
COPPER OR STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



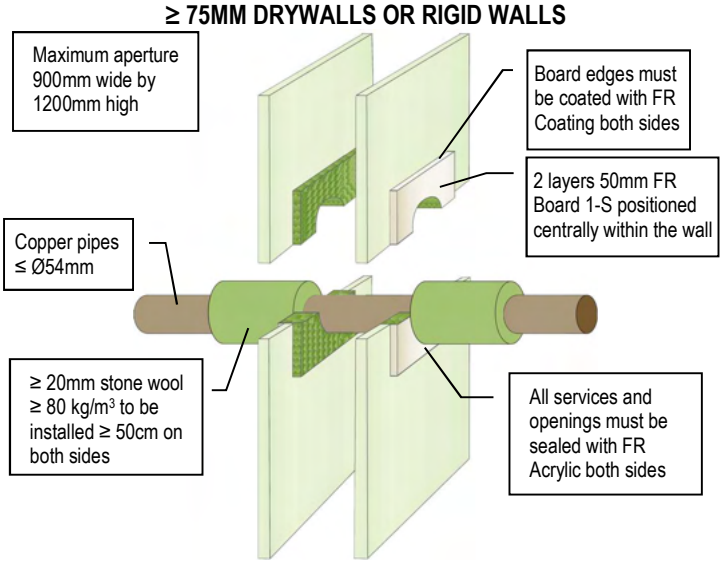
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



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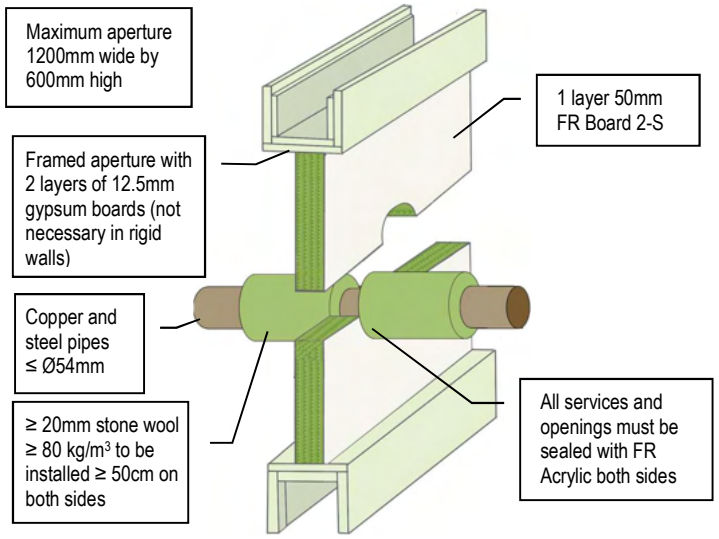
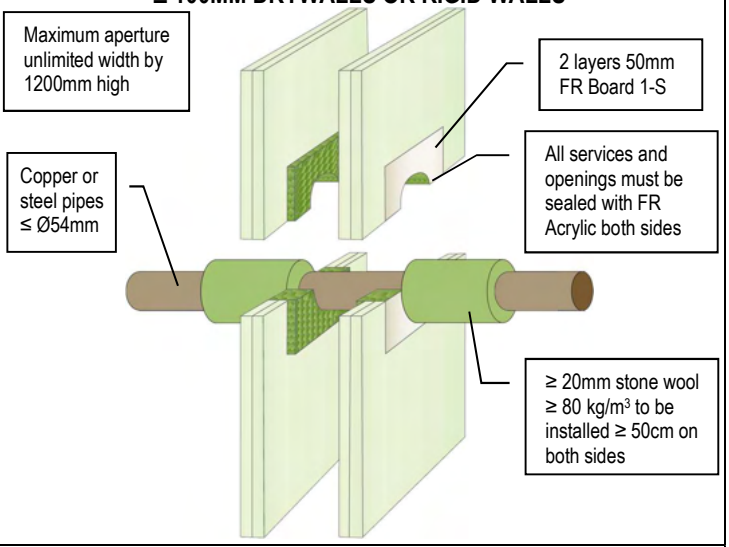
COPPER & STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



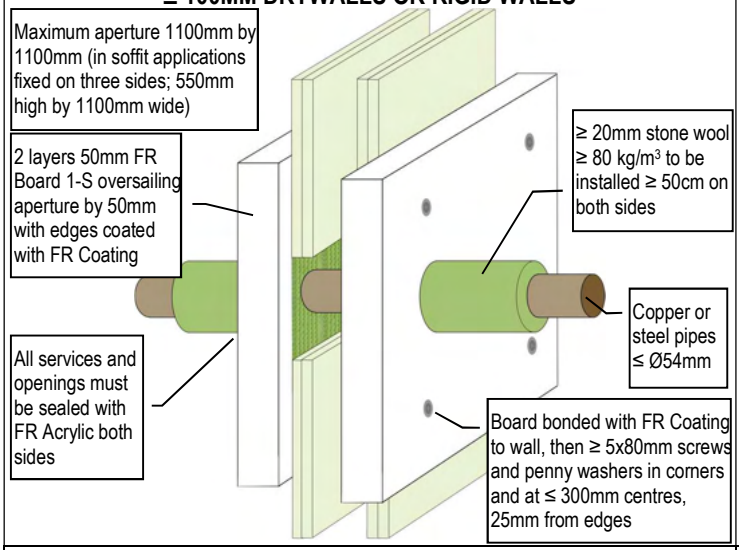
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



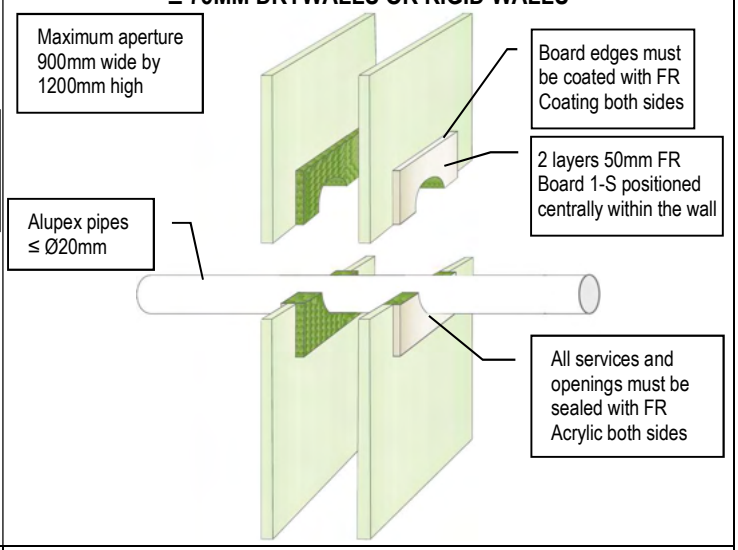
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



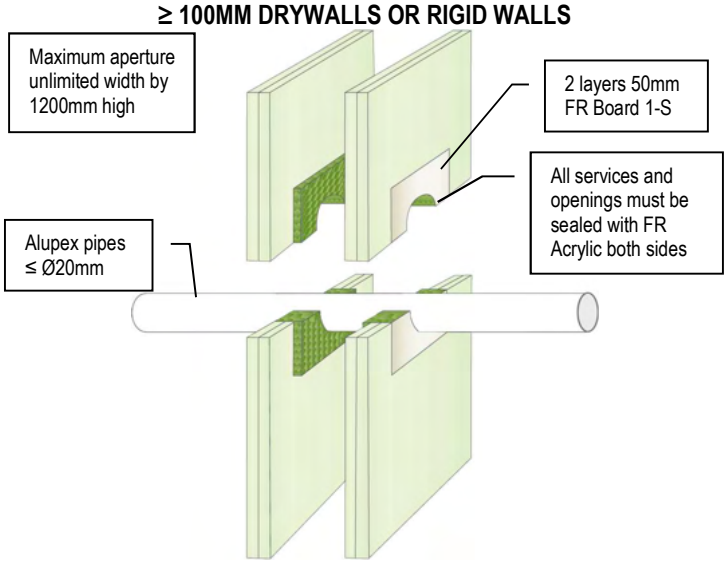
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



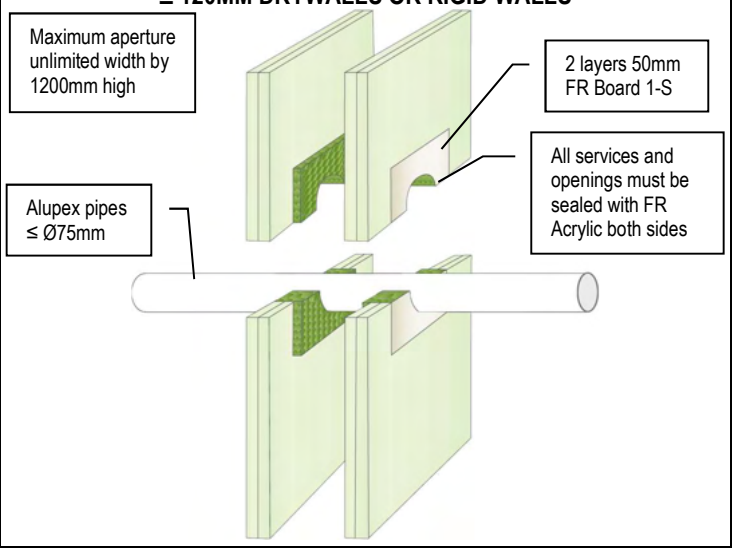
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



ALUPEX PIPES FIRE RESISTANCE EI 20 C/C (E 120)

≥ 120MM DRYWALLS OR RIGID WALLS



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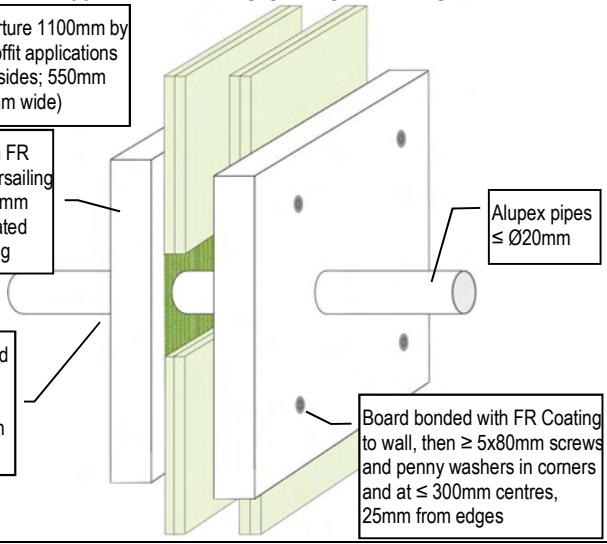
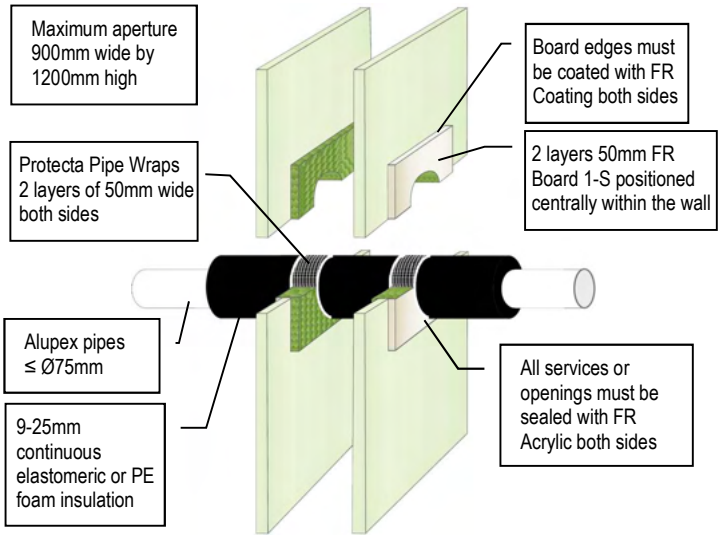
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



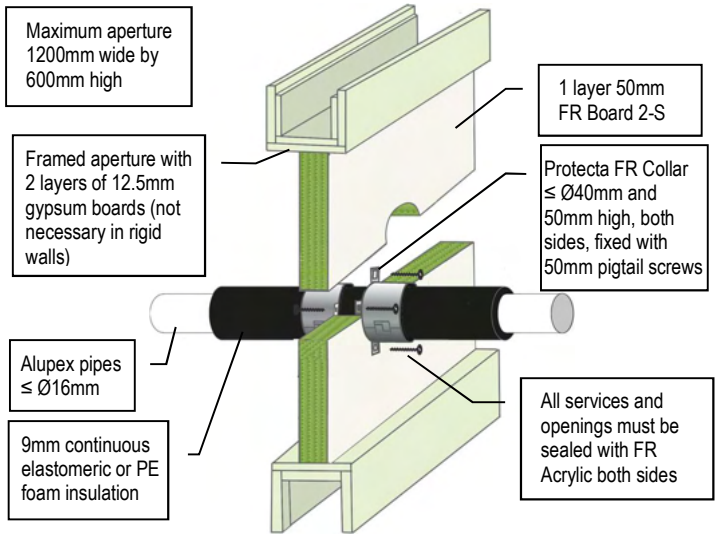
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



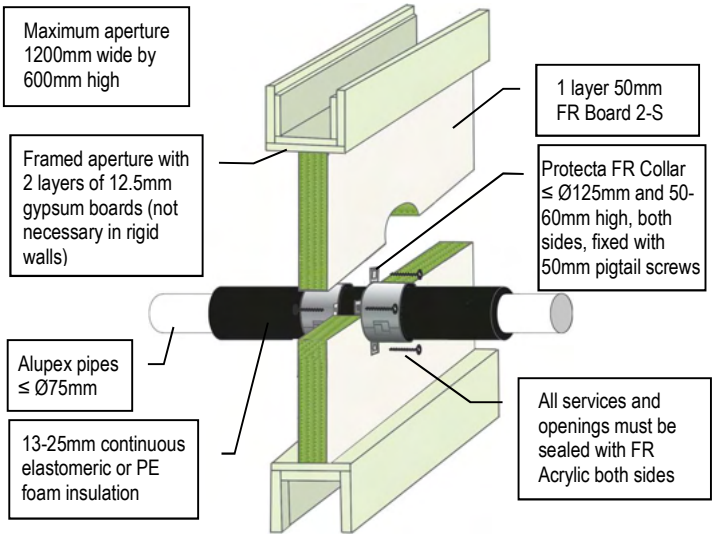
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



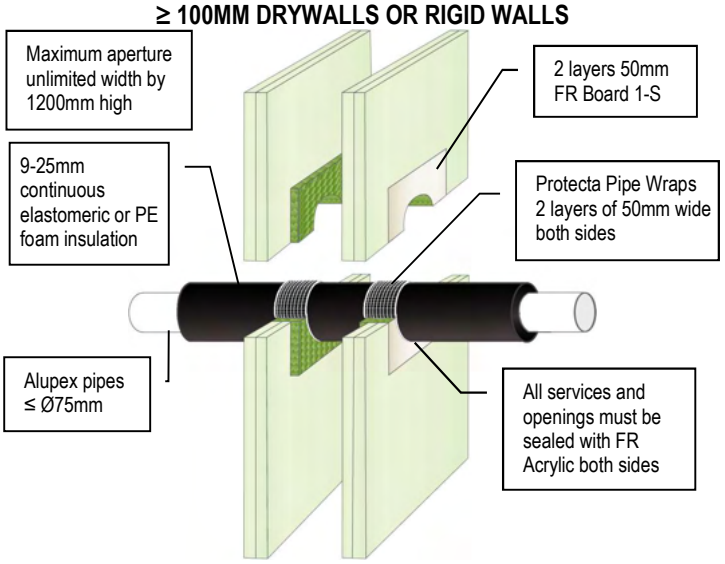
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



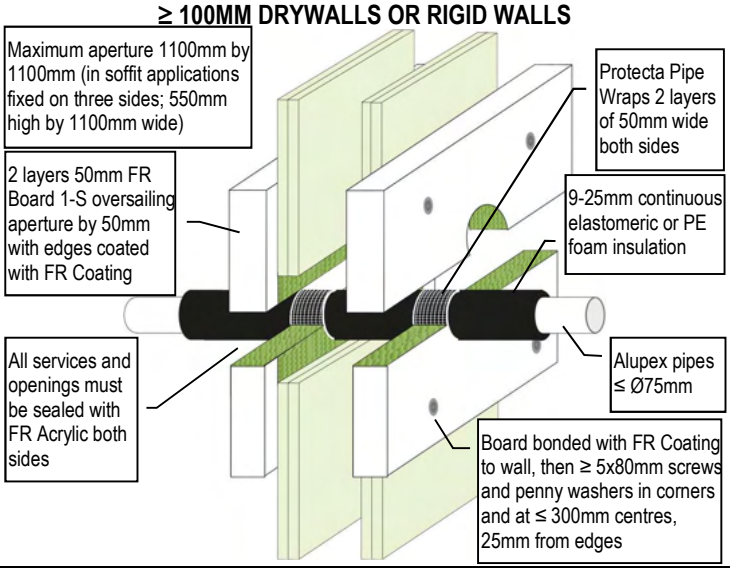
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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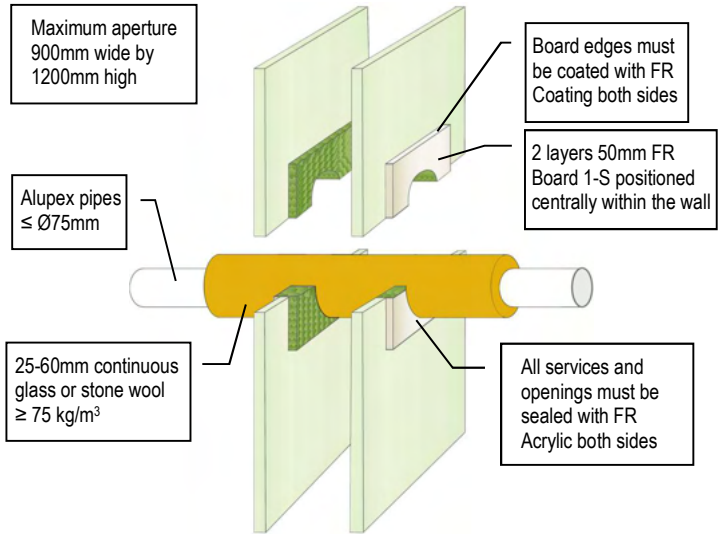
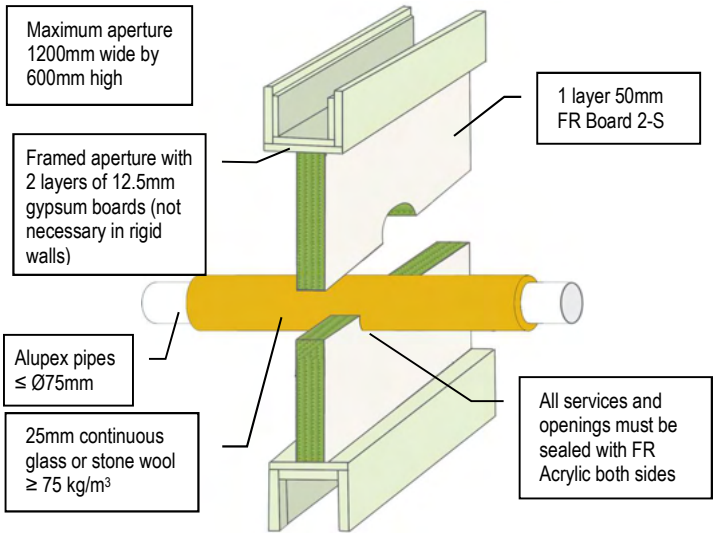
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



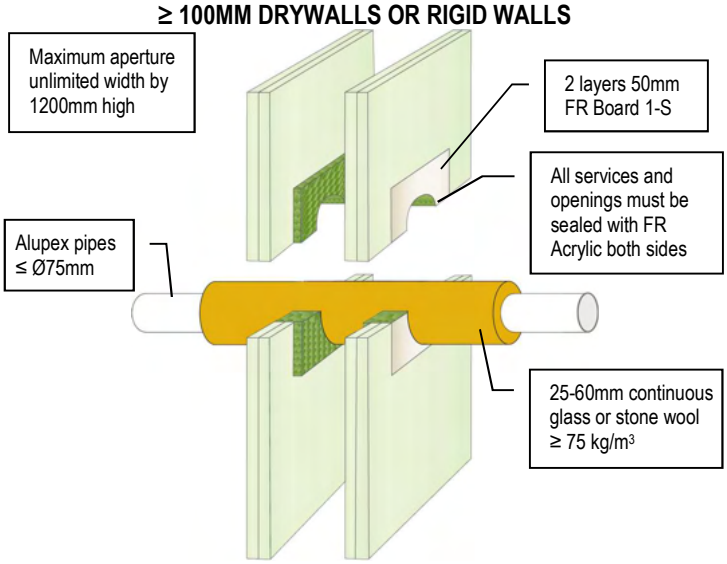
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



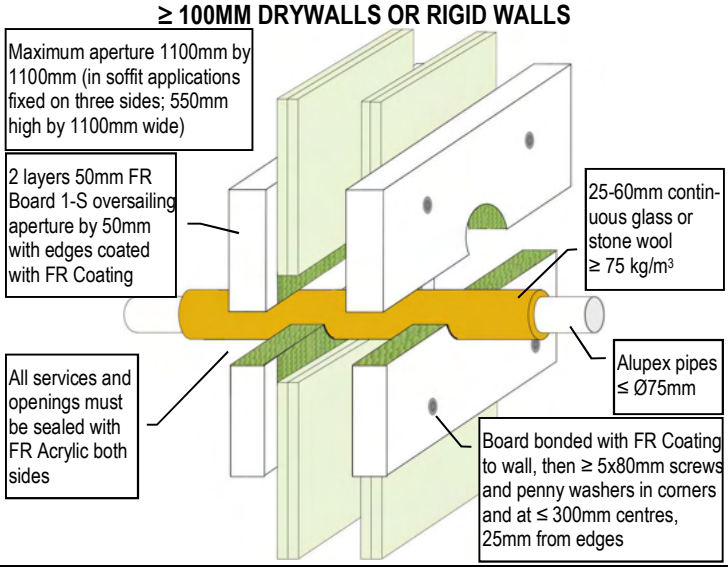
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



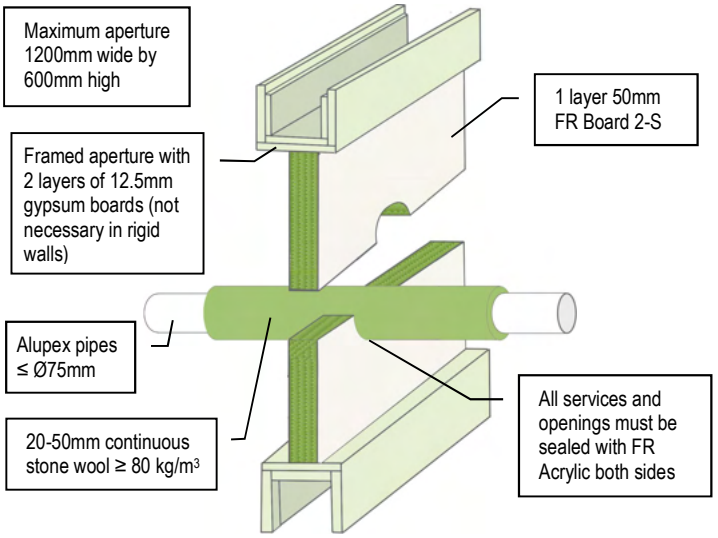
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



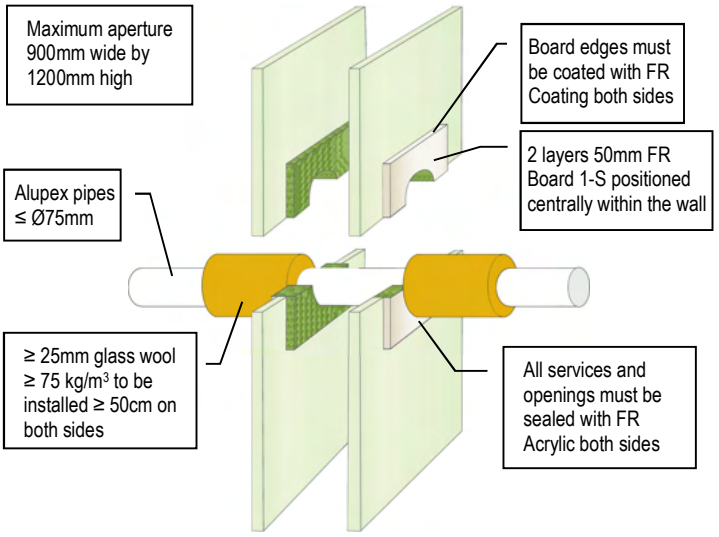
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 75MM DRYWALLS OR RIGID WALLS



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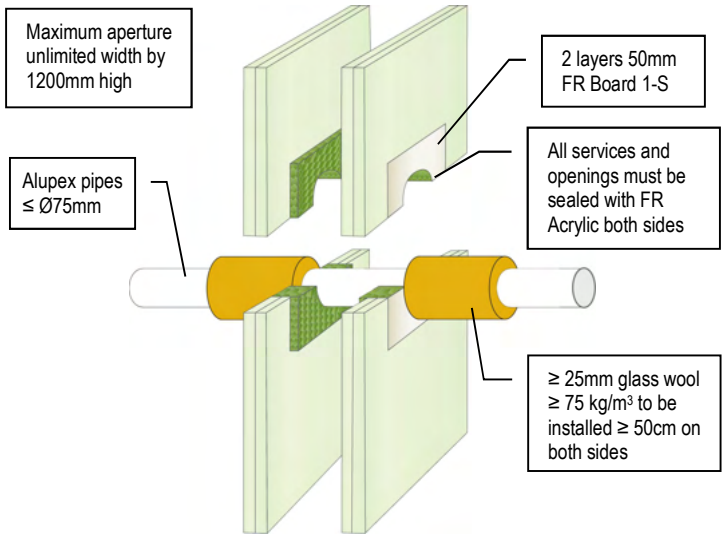
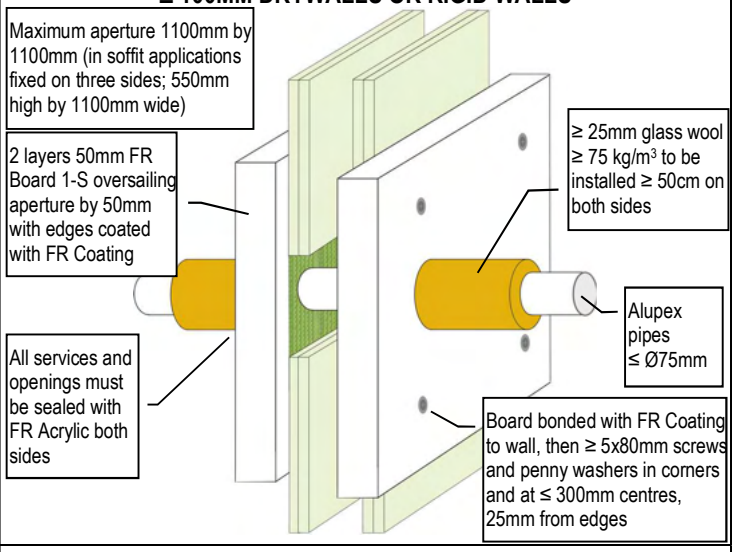
ALUPEX PIPES FIRE RESISTANCE EI 30 C/C (E 30)

≥ 100MM DRYWALLS OR RIGID WALLS



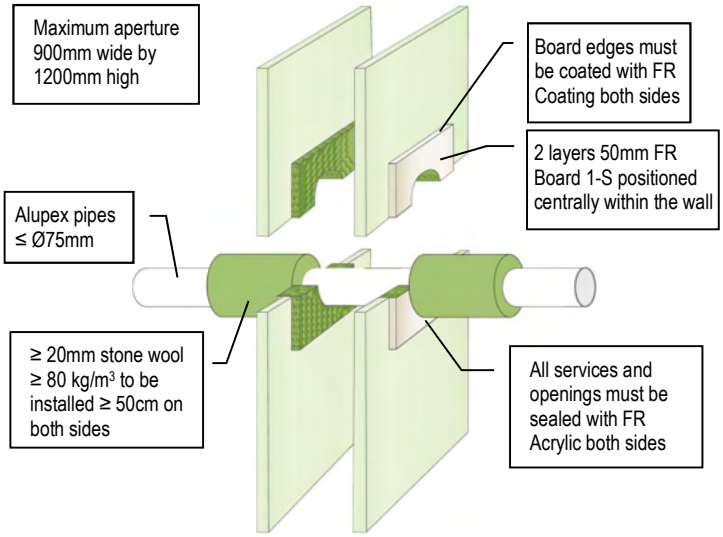
ALUPEX PIPES FIRE RESISTANCE EI 30 C/C (E 30)

≥ 100MM DRYWALLS OR RIGID WALLS



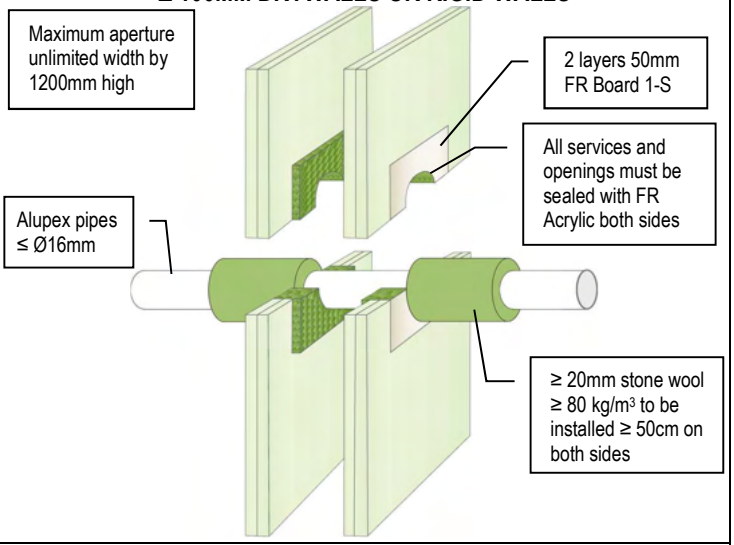
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



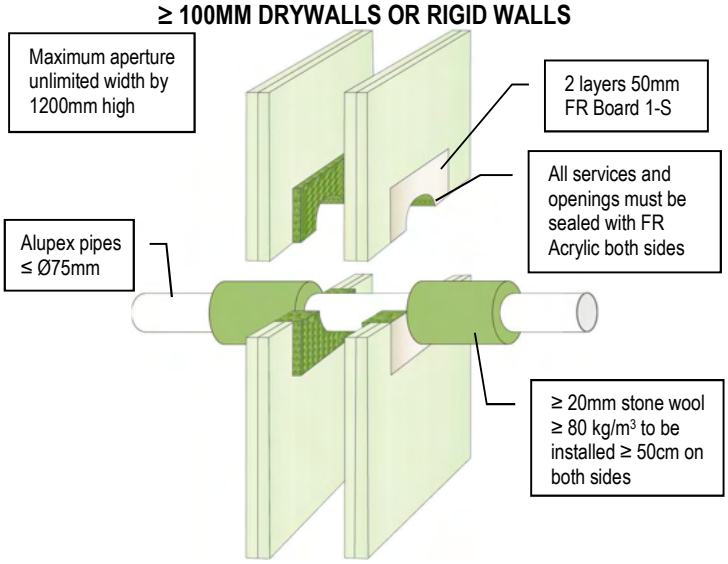
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



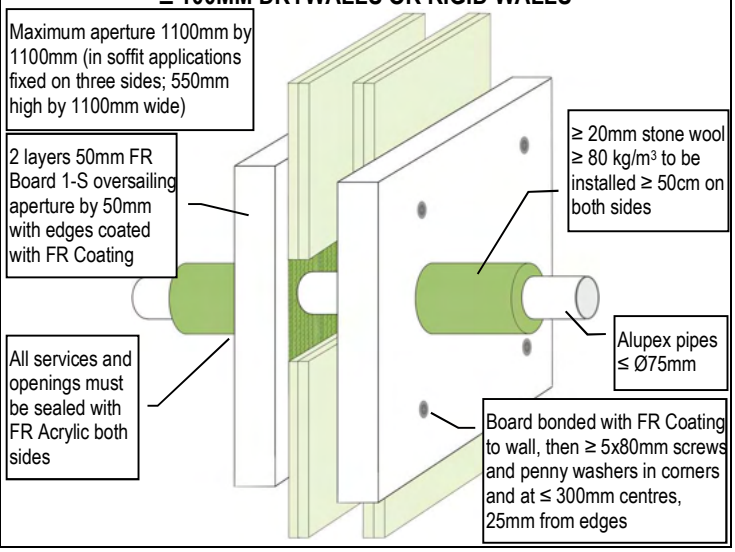
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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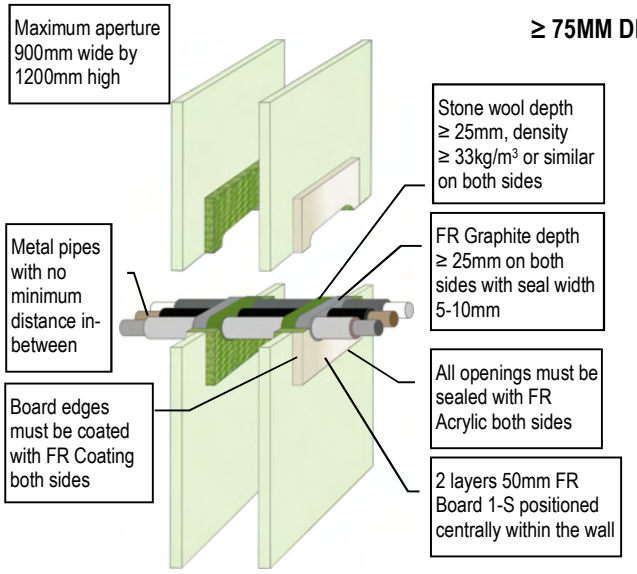
INSULATED METAL PIPES WITH FR GRAPHITE FIRE RESISTANCE EI 60

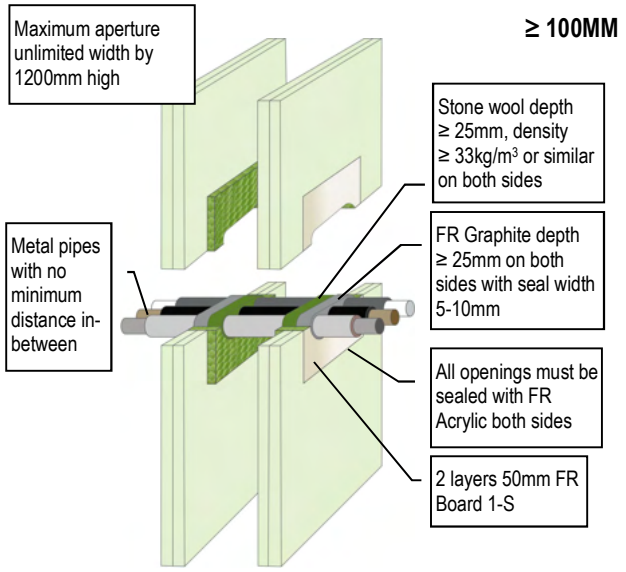
≥ 75MM DRYWALLS OR RIGID WALLS



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 FR GRAPHITE FIRE RESISTANCE EI 60-120

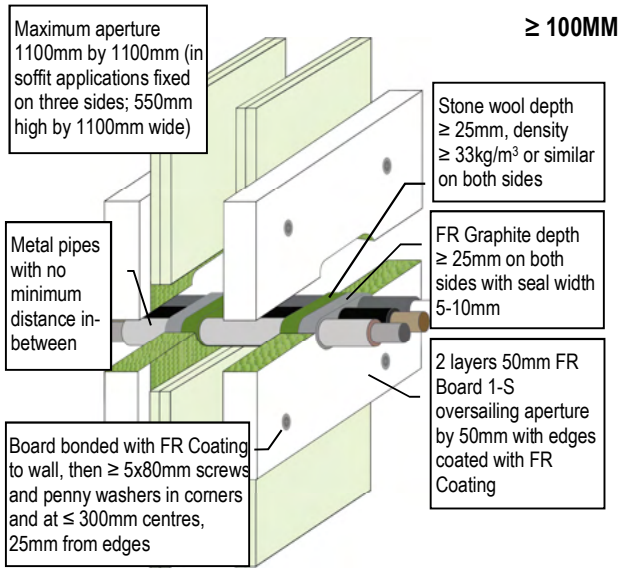
≥ 100MM DRYWALLS OR RIGID WALLS



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 FR GRAPHITE FIRE RESISTANCE EI 60-120

≥ 100MM DRYWALLS OR RIGID WALLS



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)

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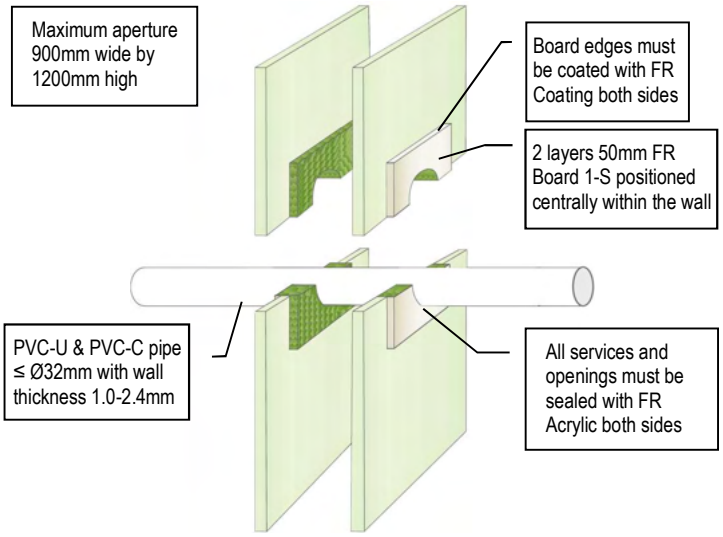
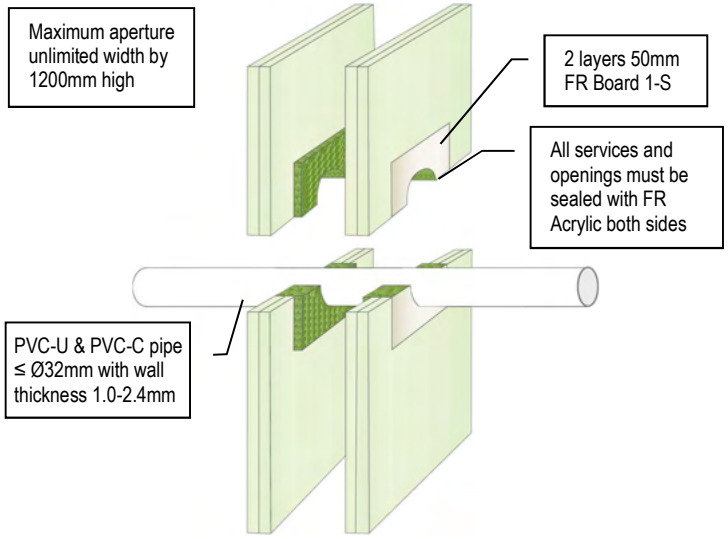
PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



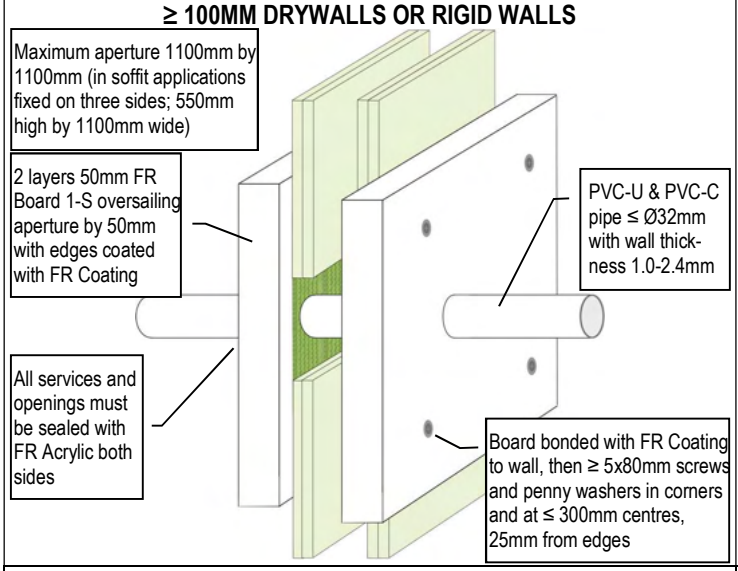
PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



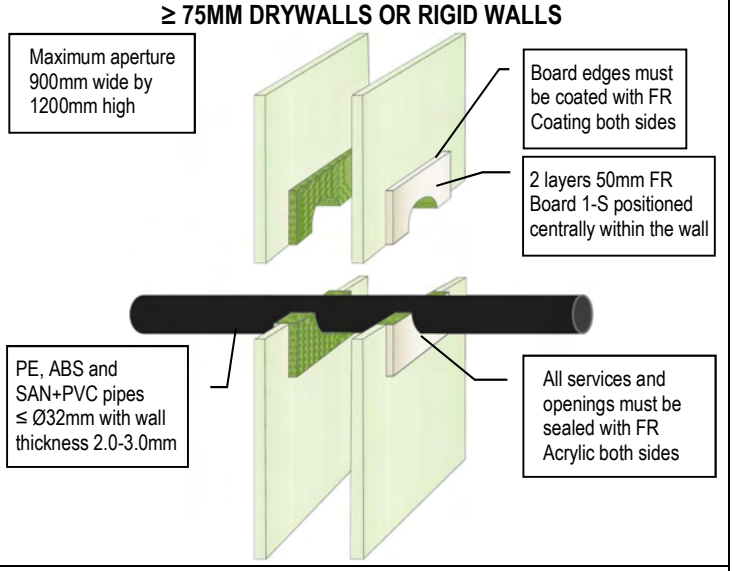
PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



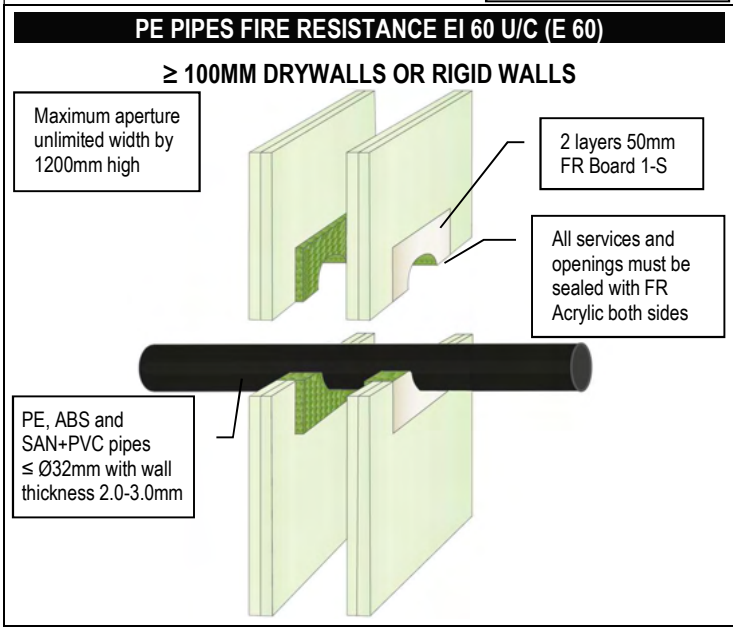
PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



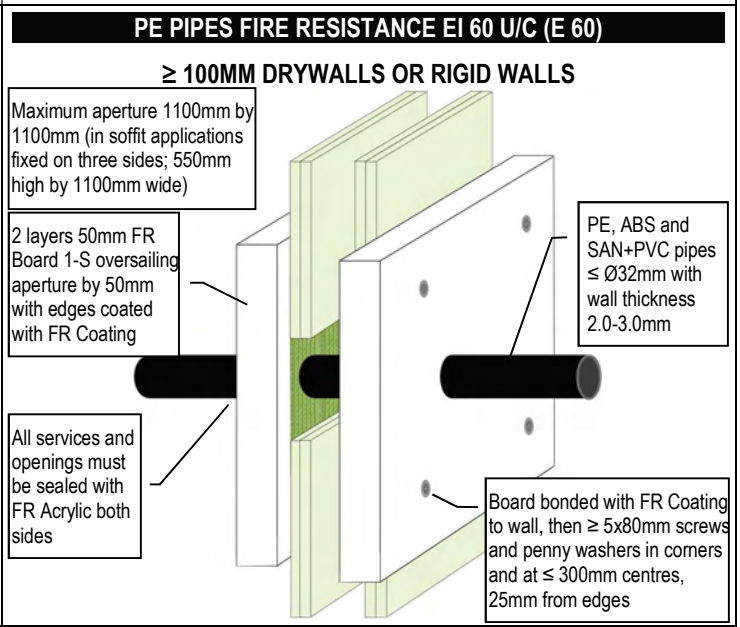
PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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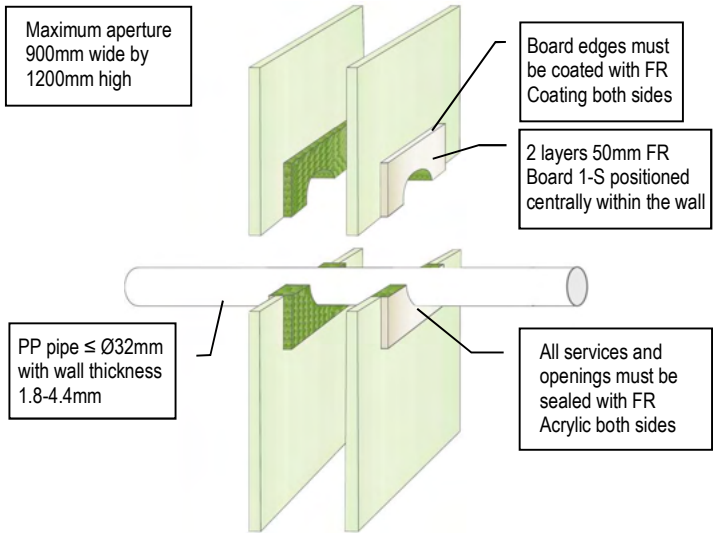
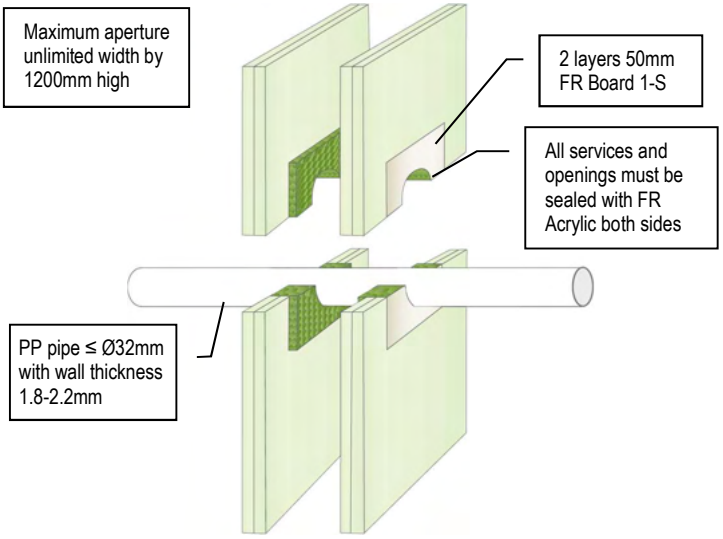
PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)

≥ 75MM DRYWALLS OR RIGID WALLS



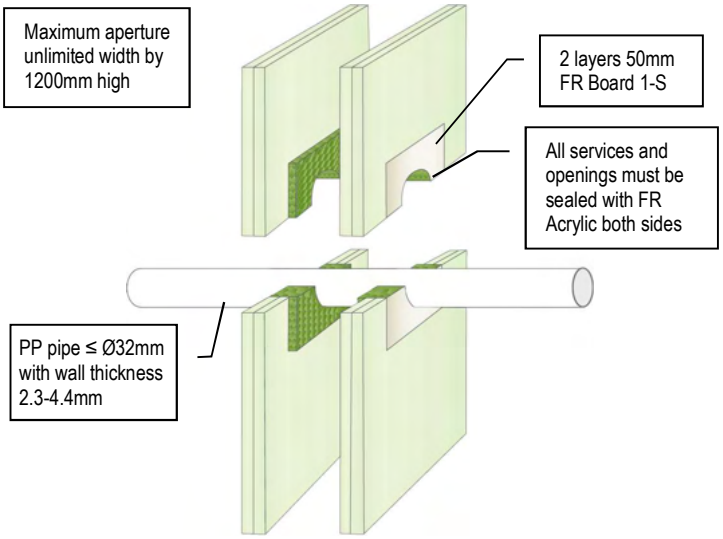
PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



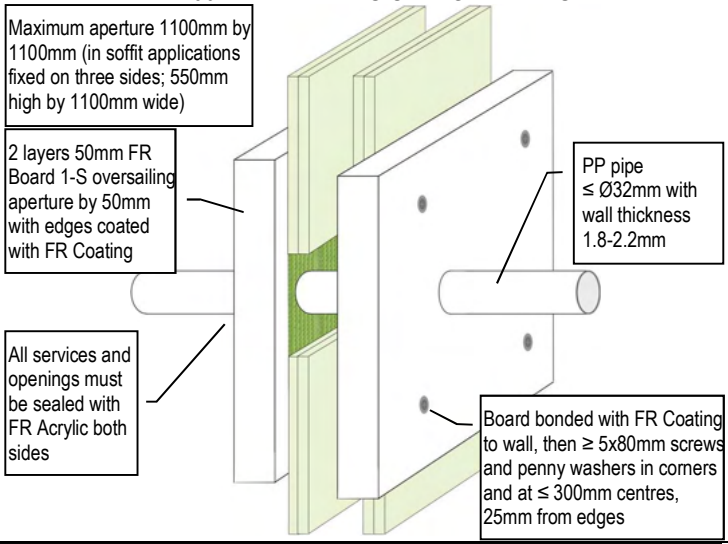
PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)

≥ 100MM DRYWALLS OR RIGID WALLS



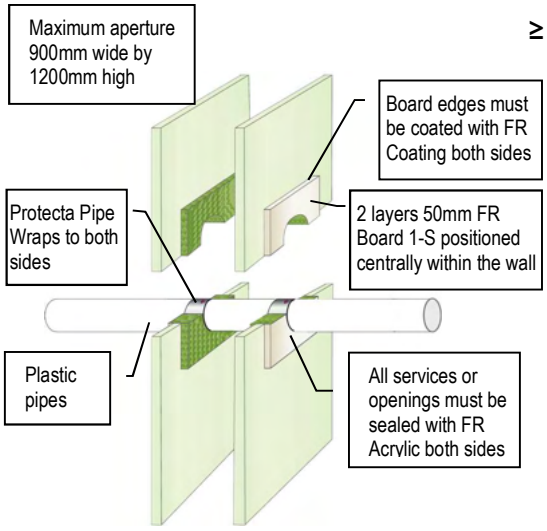
PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS



Services	Pipe Wall Thickness	FR 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/U (E 60 U/U)
≤ 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)

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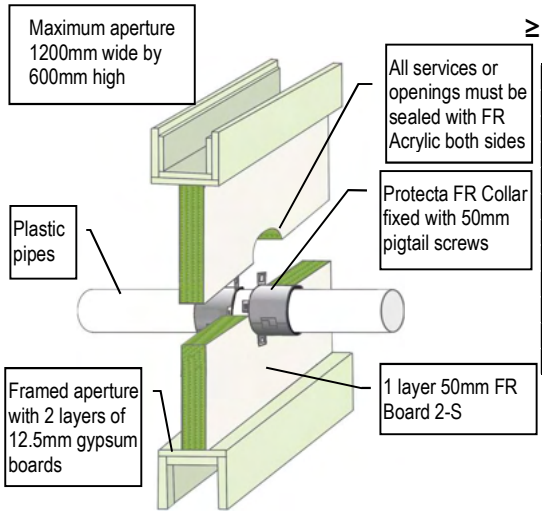
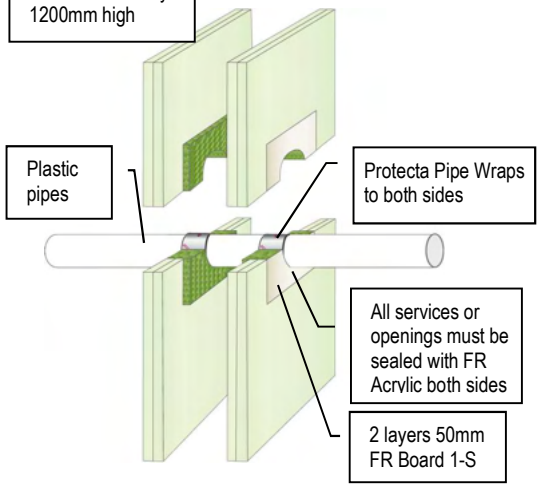
PLASTIC PIPES FIRE RESISTANCE EI 30-60



≥ 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)

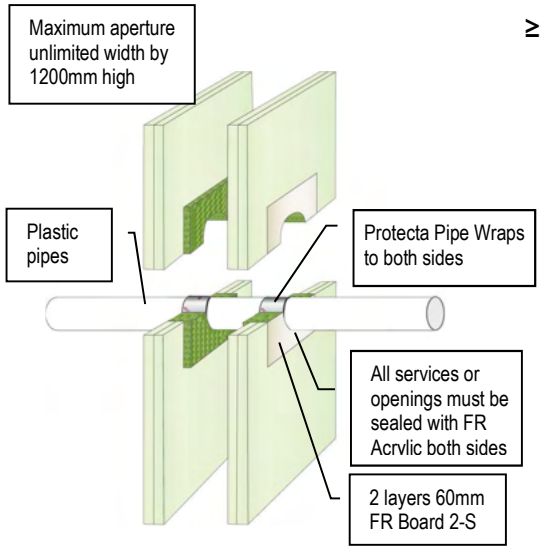
PLASTIC PIPES FIRE RESISTANCE EI 60-120



≥ 100MM DRYWALLS OR RIGID WALLS

Services	Pipe Wall Thickness	FR 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

Services	Pipe Wall Thickness	FR 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)

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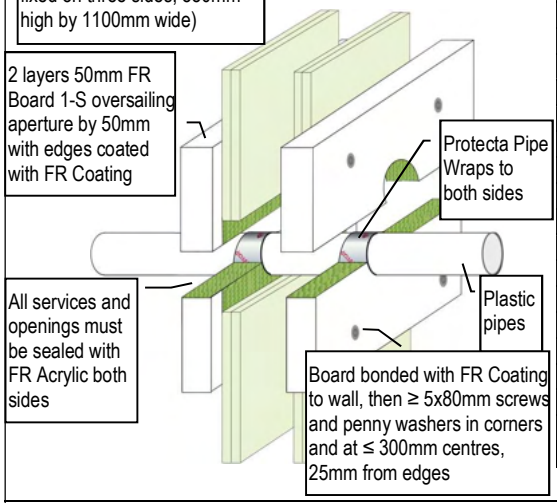
PLASTIC PIPES FIRE RESISTANCE EI 60-120

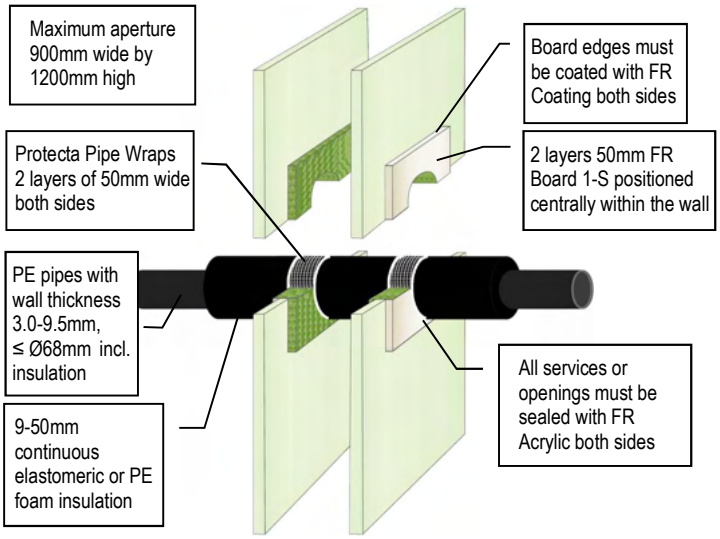
≥ 120MM DRYWALLS OR RIGID WALLS



Services	Pipe Wall Thickness	FR 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 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)

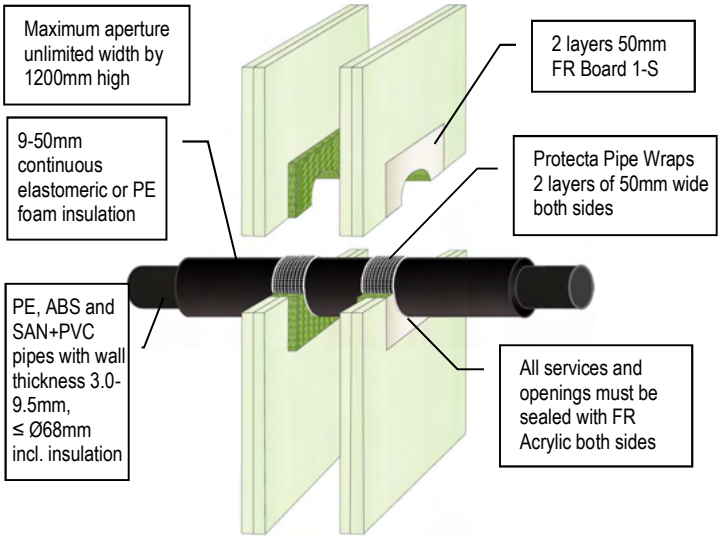
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



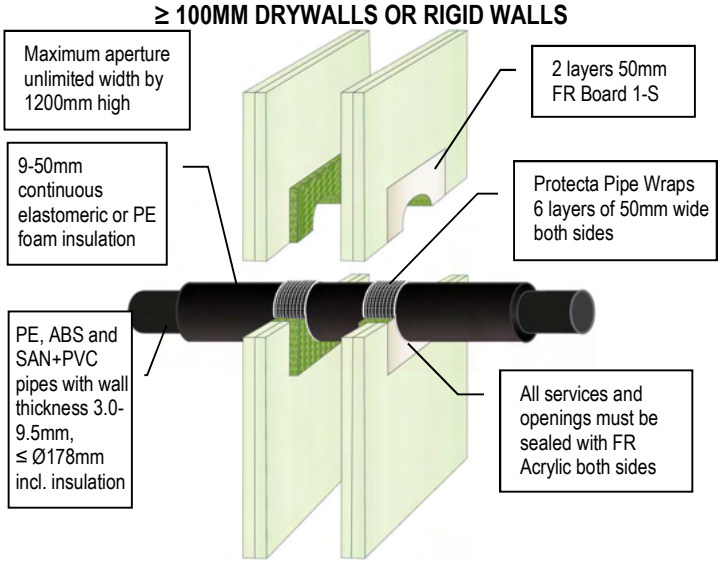
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



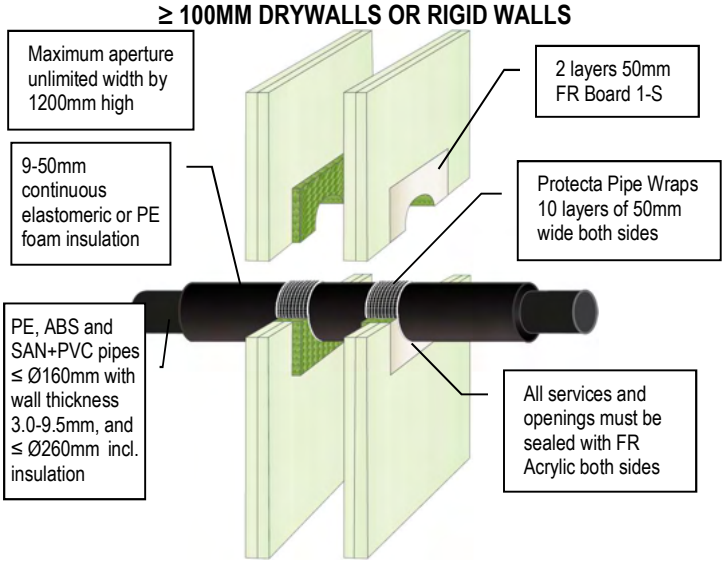
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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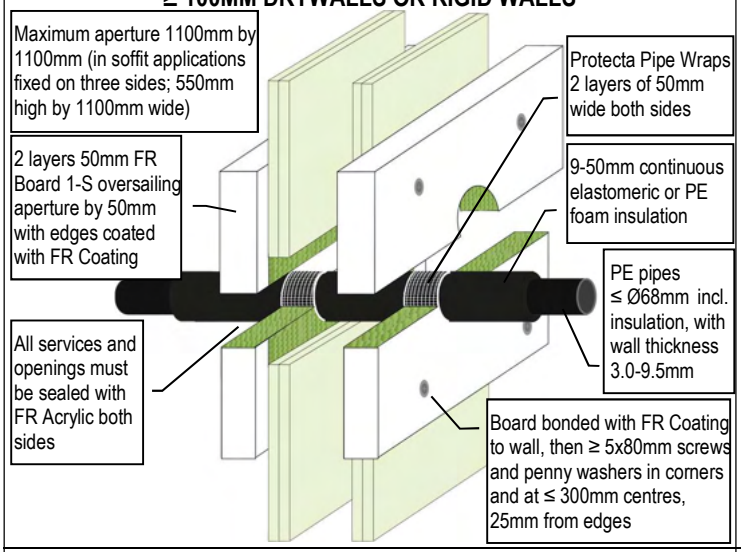
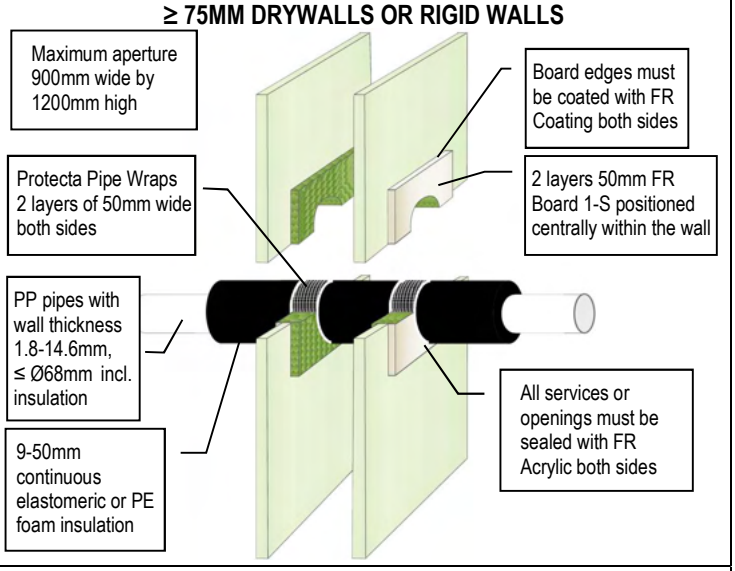
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



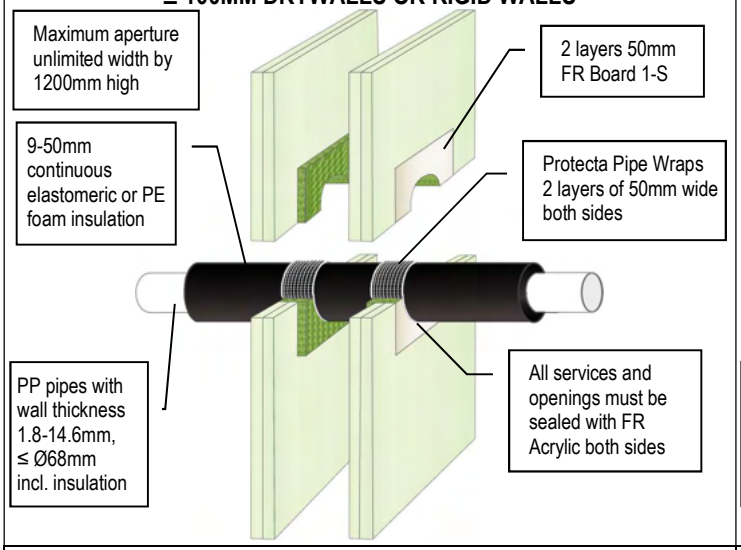
INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



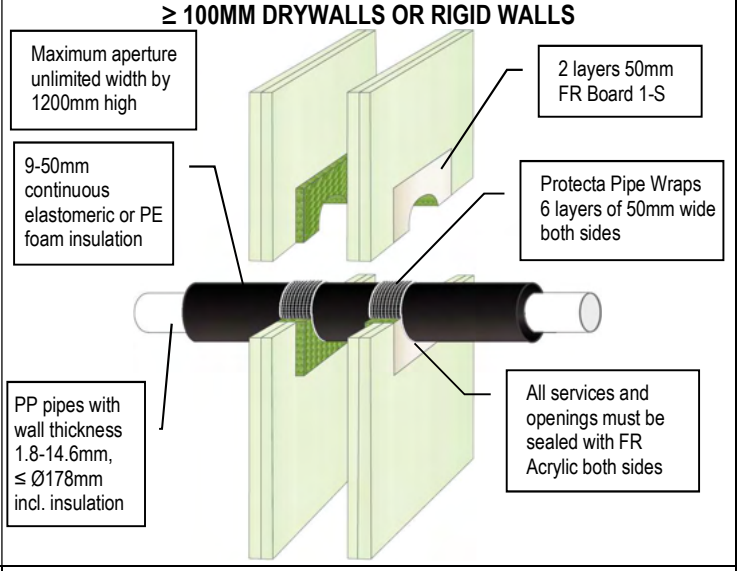
INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



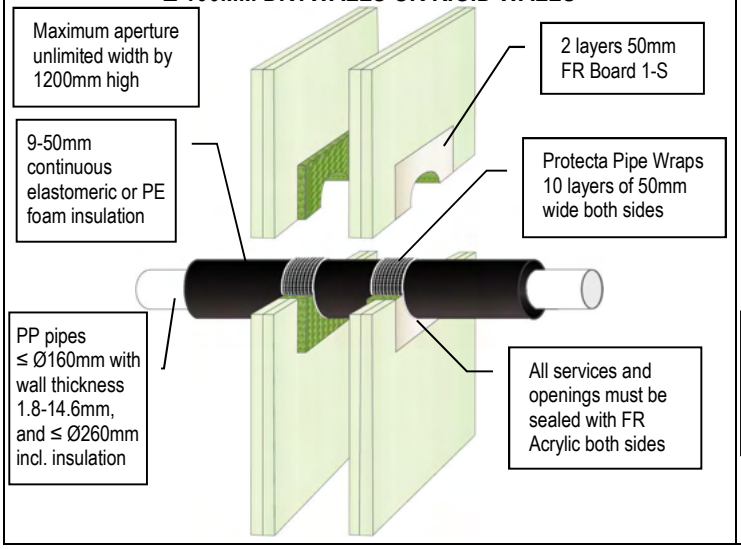
INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



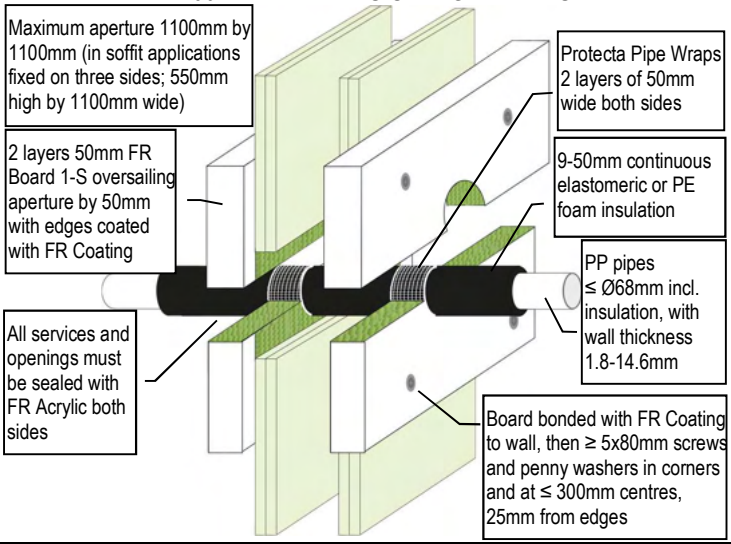
INSULATED PP PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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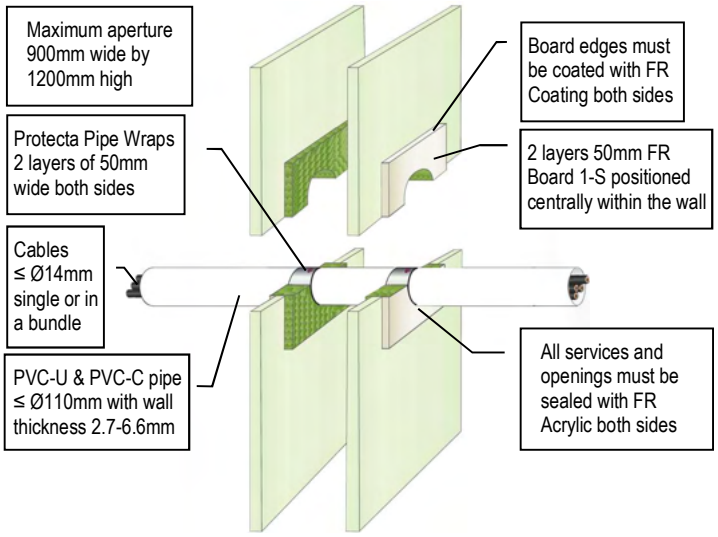
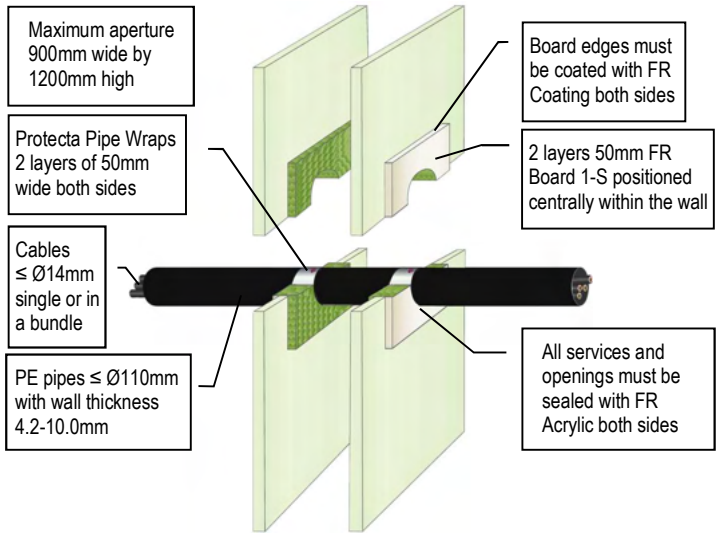
PVC CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



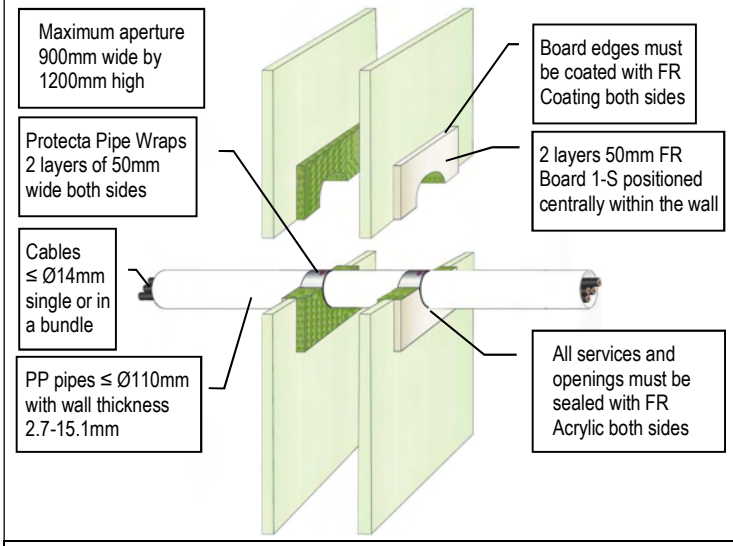
PE CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



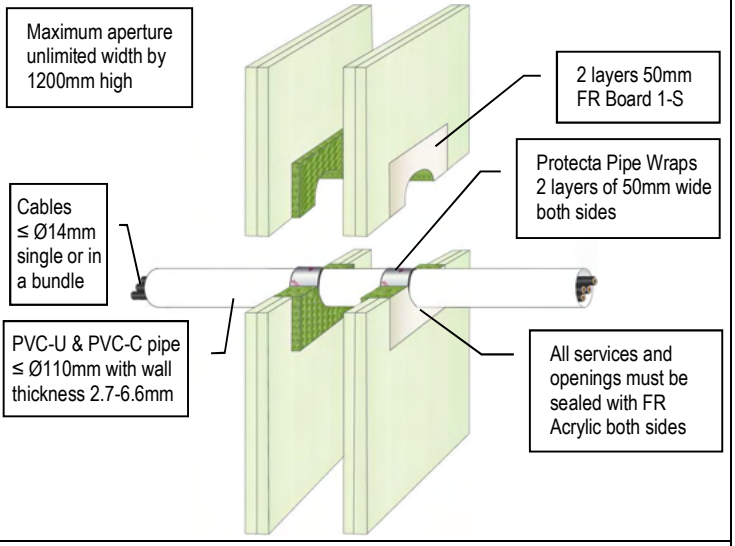
PP CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



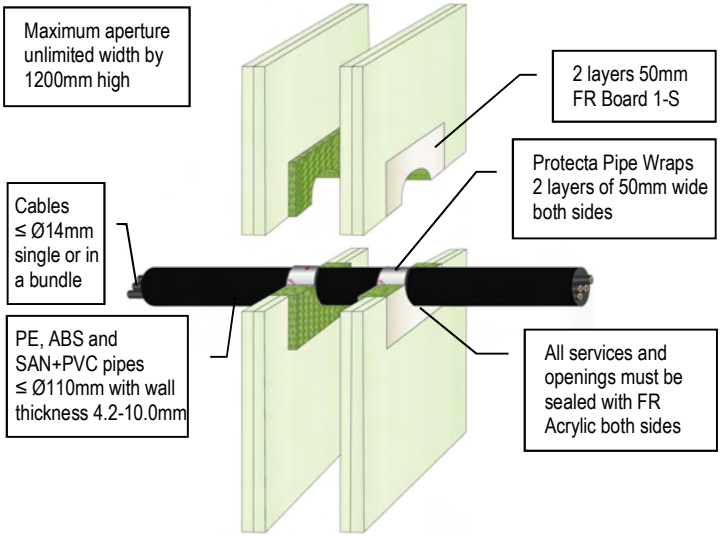
PVC CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



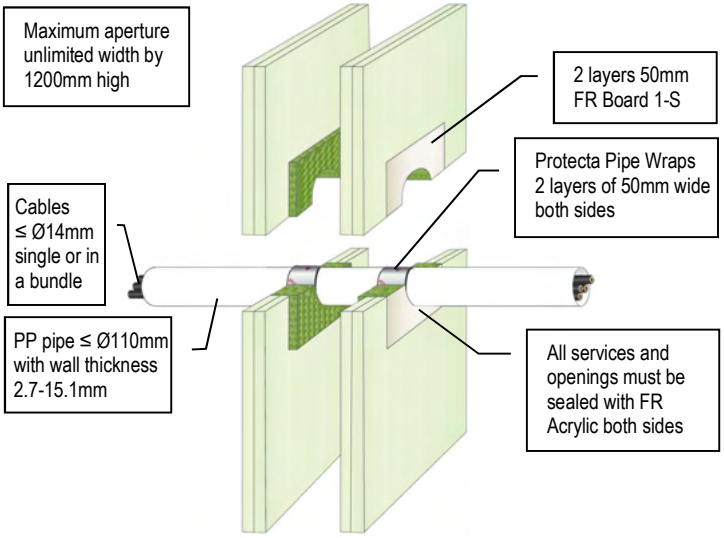
PE CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



PP CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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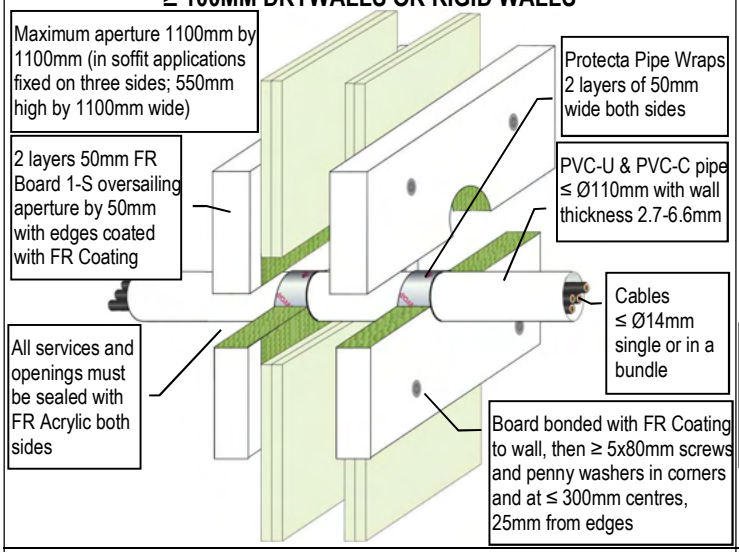
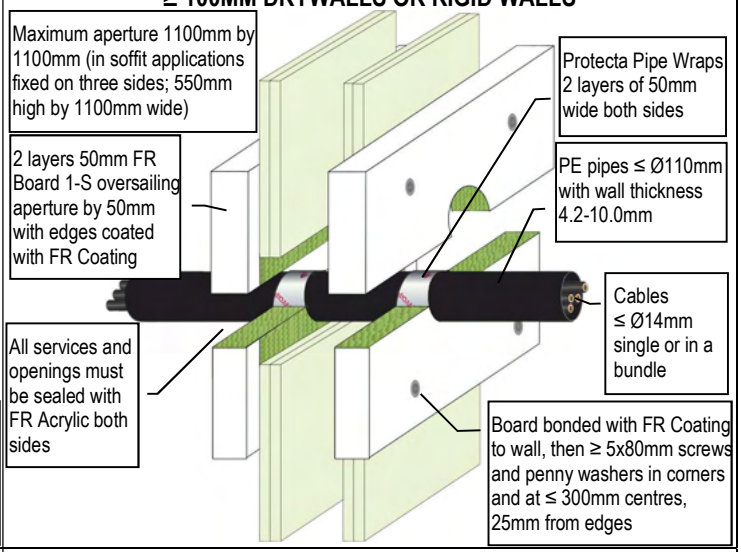
PVC CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



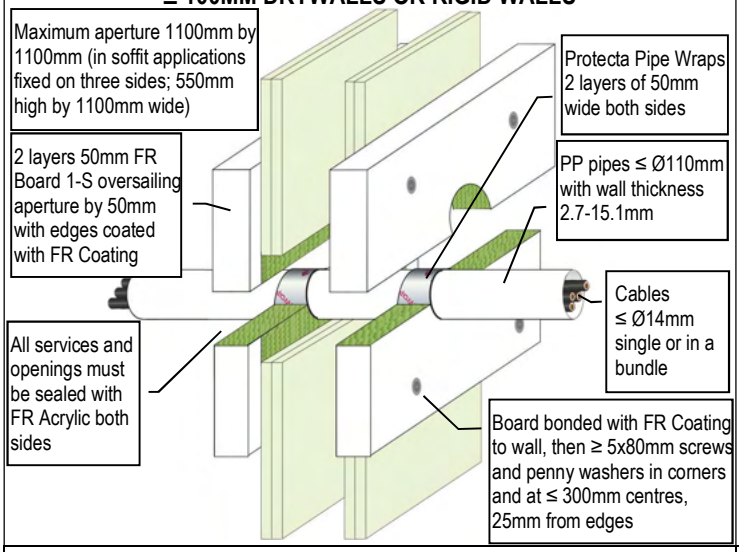
PE CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



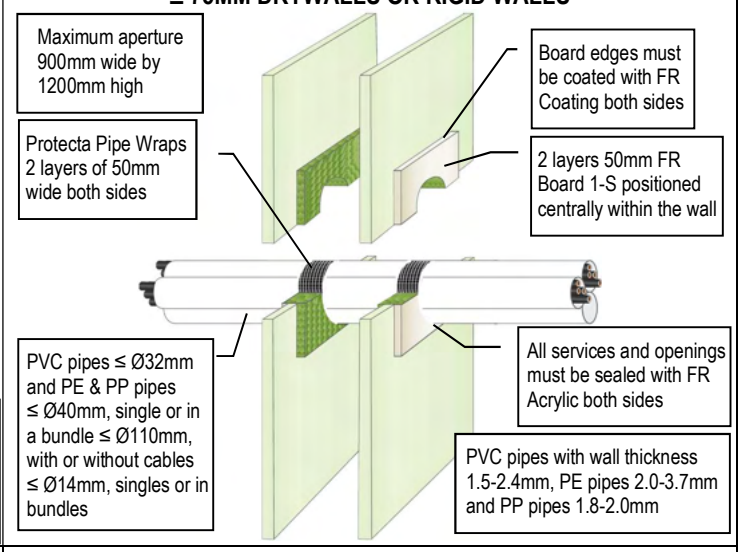
PP CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



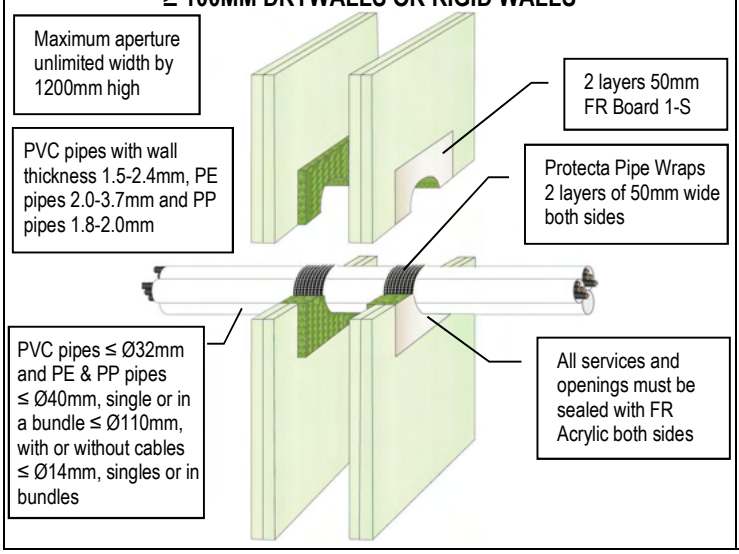
PLASTIC PIPES & CONDUITS FIRE RESISTANCE EI 60 U/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



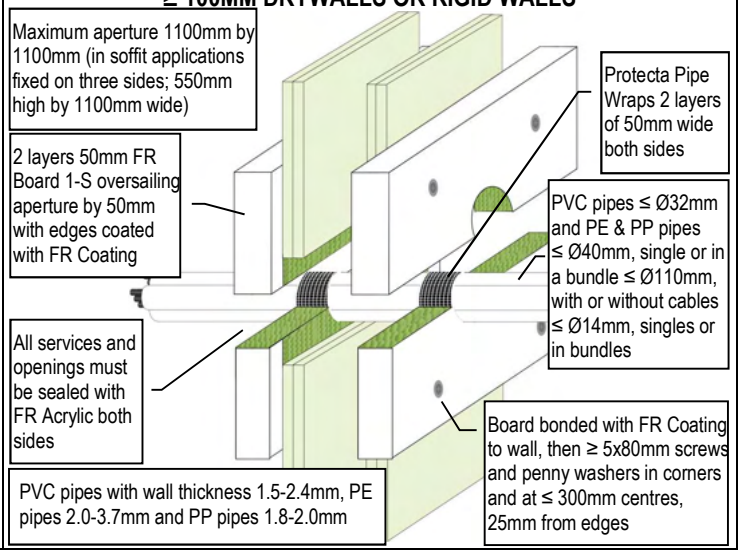
PLASTIC PIPES & CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



PLASTIC PIPES & CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



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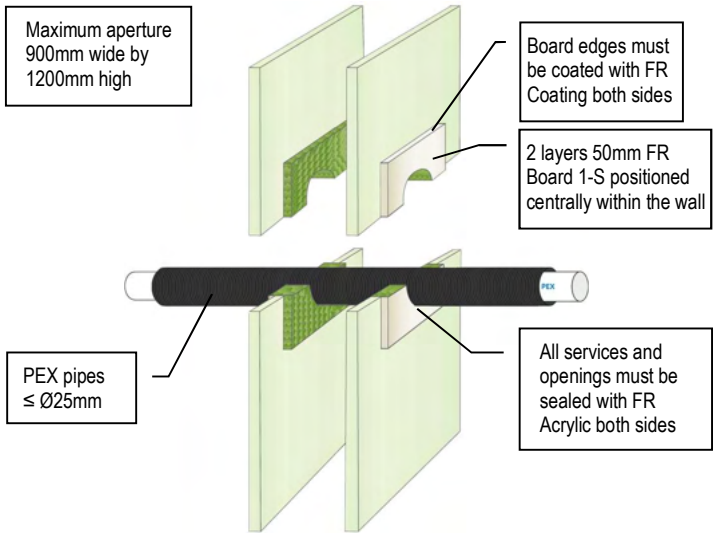
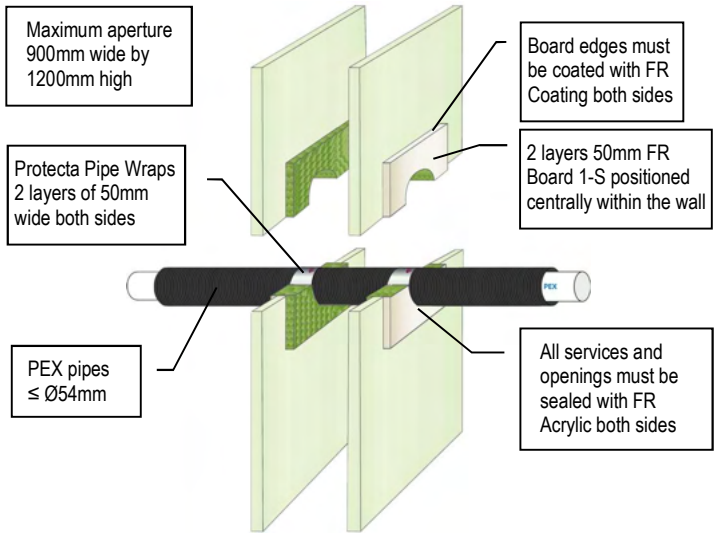
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



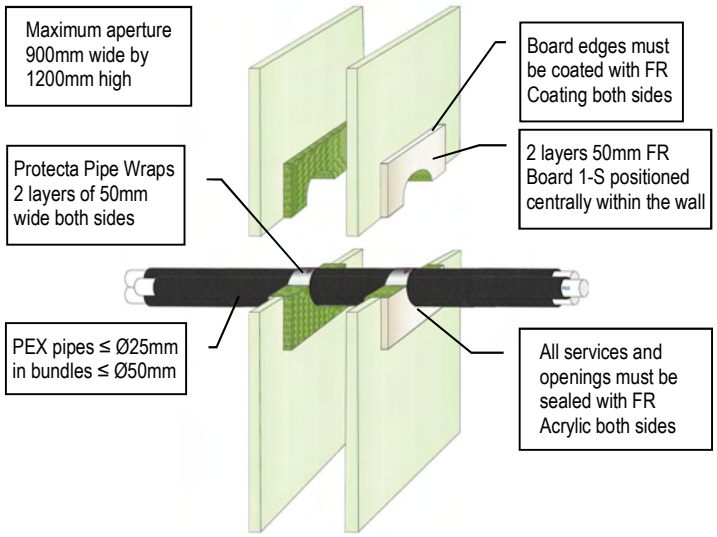
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



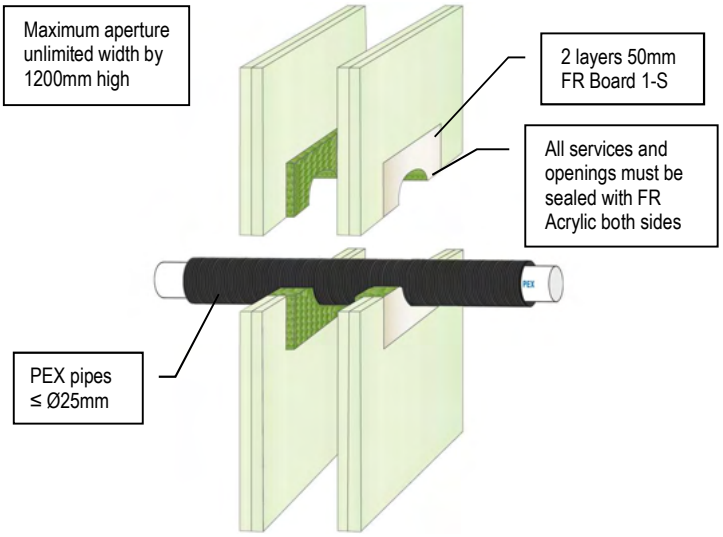
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM DRYWALLS OR RIGID WALLS



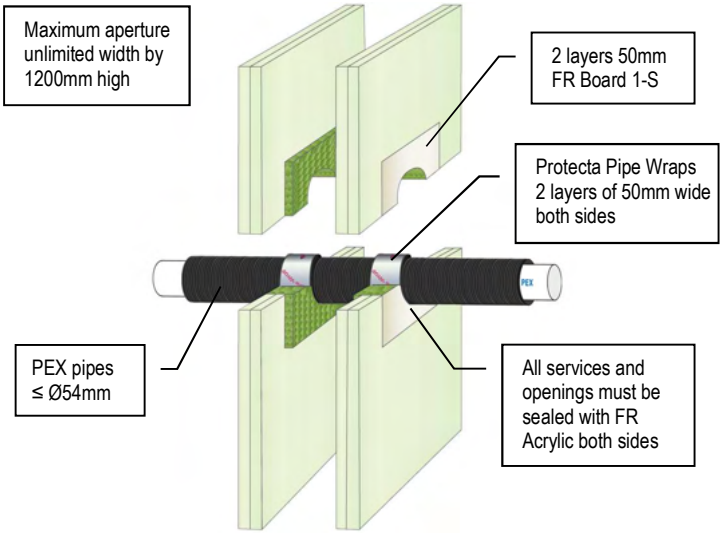
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



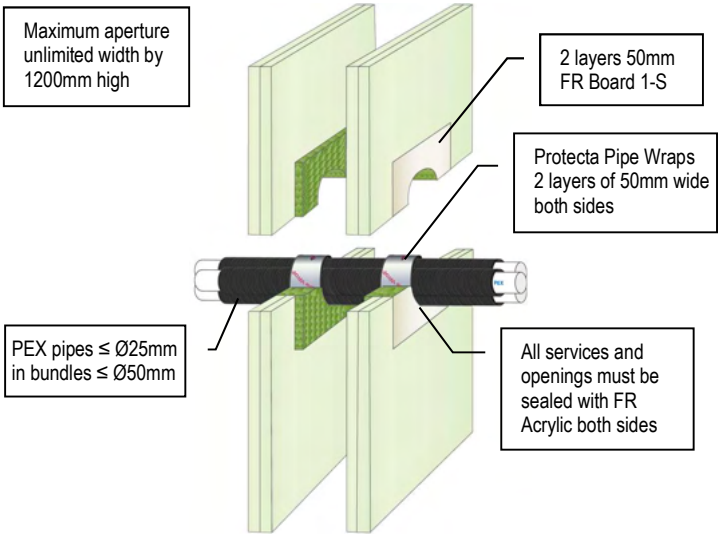
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



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

≥ 100MM DRYWALLS OR RIGID WALLS



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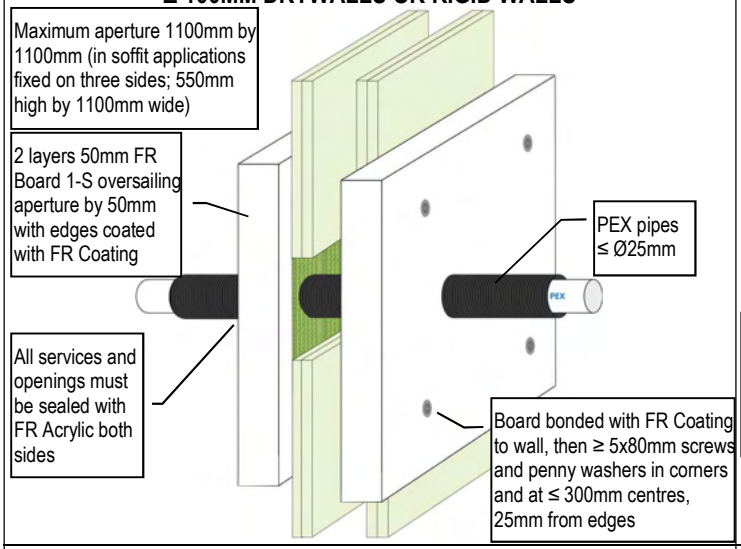
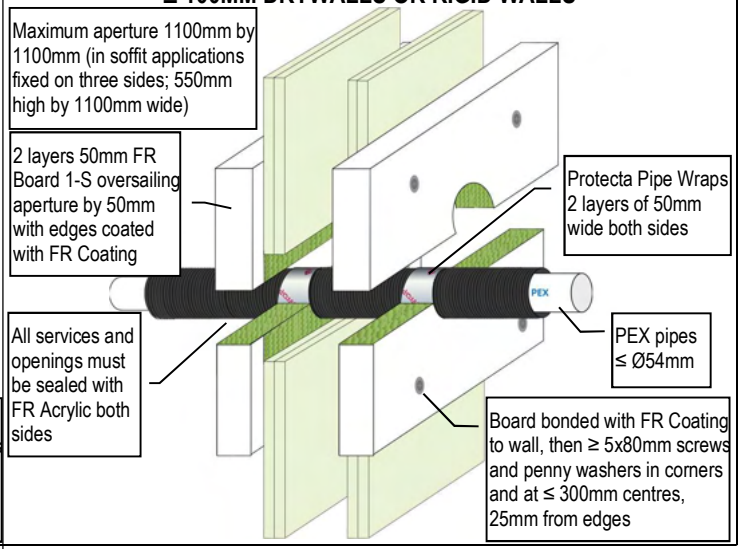
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



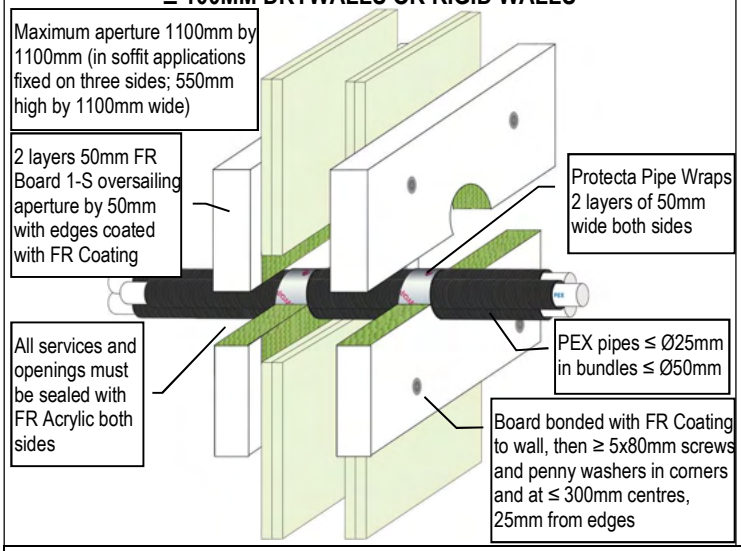
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM DRYWALLS OR RIGID WALLS



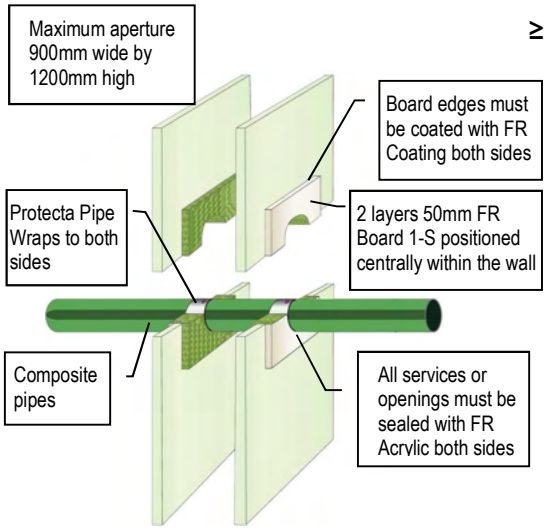
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

≥ 100MM DRYWALLS OR RIGID WALLS



COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS



Services	FR 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)

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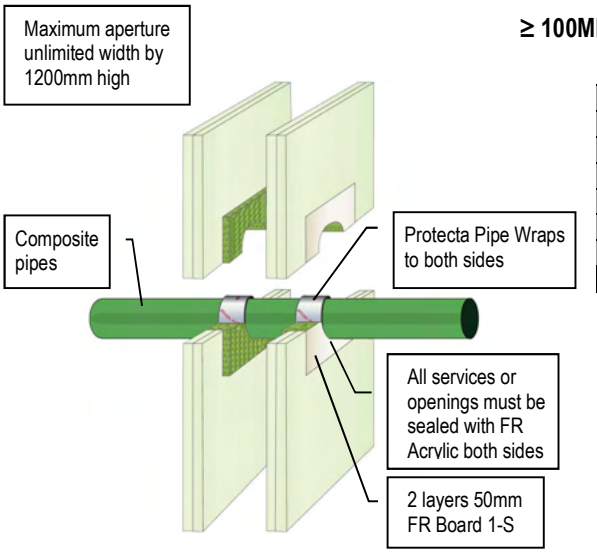
COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 90

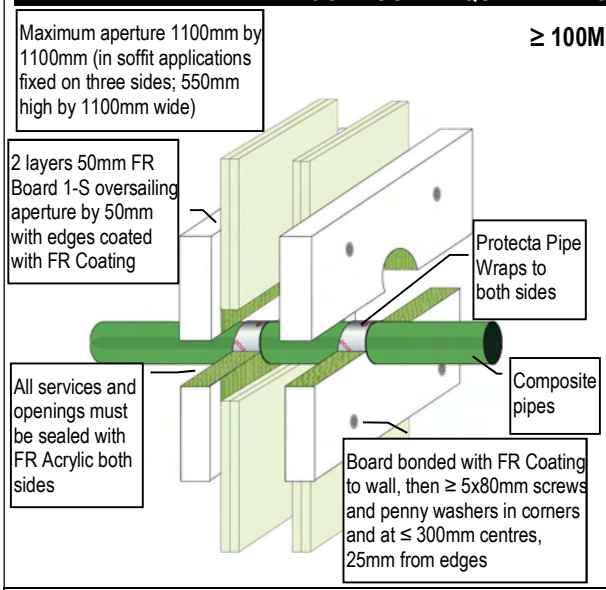
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

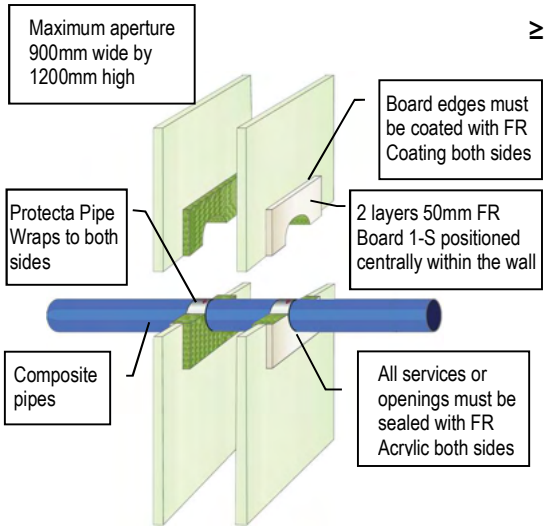
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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	FR 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)

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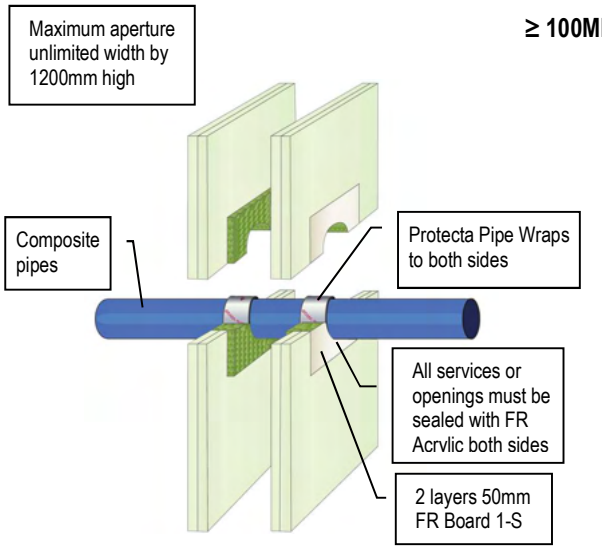
COMPOSITE BLUEPOWER PLASTIC PIPES FIRE RESISTANCE EI 90

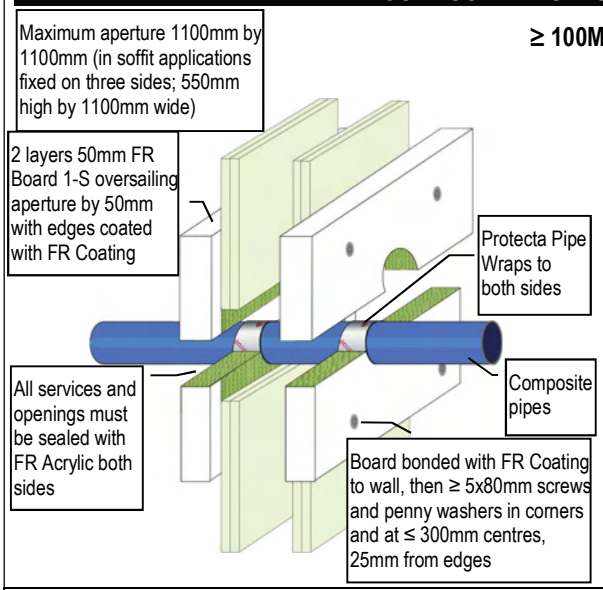
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

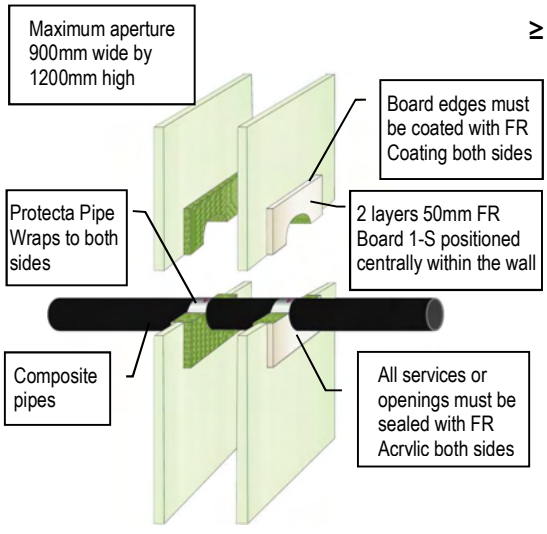
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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



Services	FR 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)

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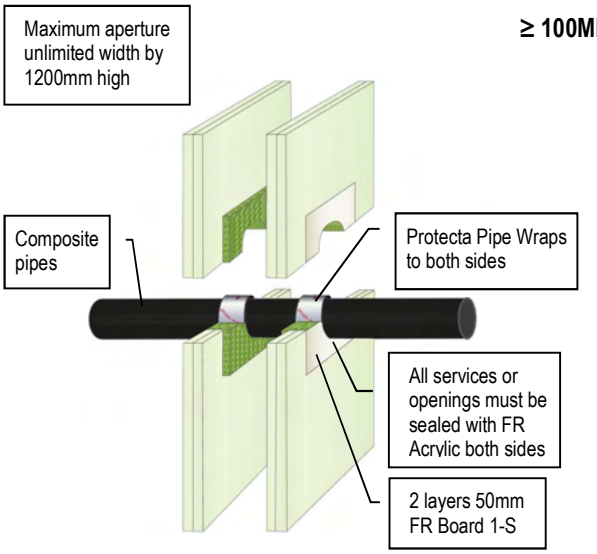
COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 90-120

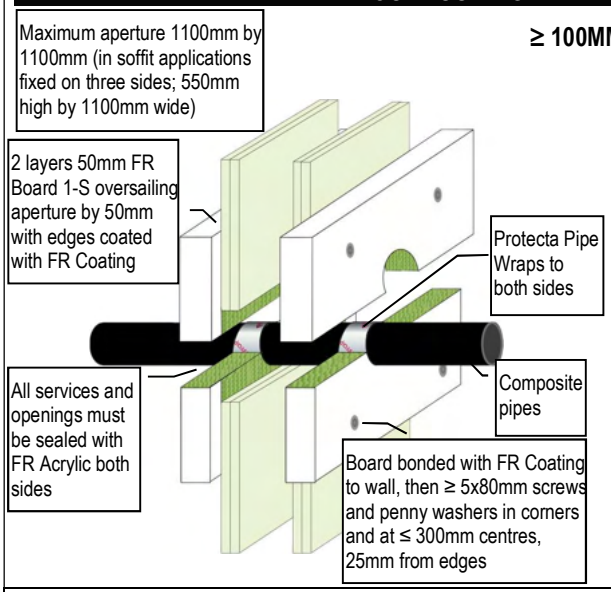
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

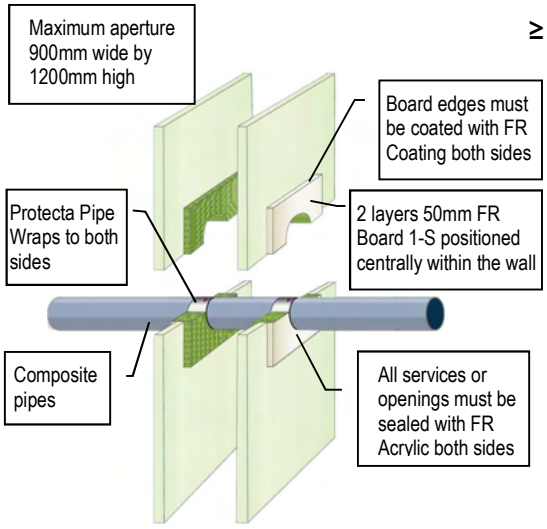
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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	FR 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)

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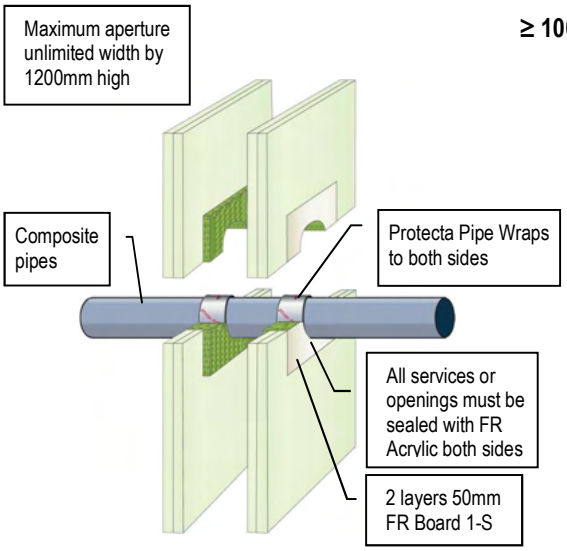
Installation Guide to ETA 22/0733, ETA 22/0771, UKTA 22/0034 & UKTA 22/0025

COMPOSITE POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 120

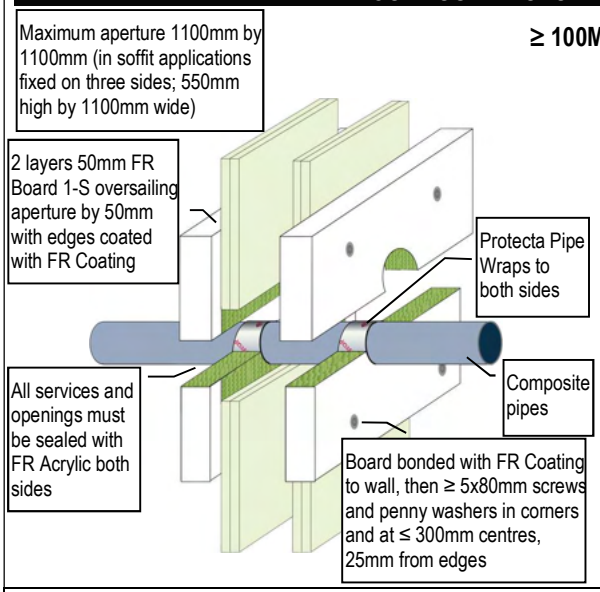
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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 POLO-KAL NG PLASTIC PIPES FIRE RESISTANCE EI 120

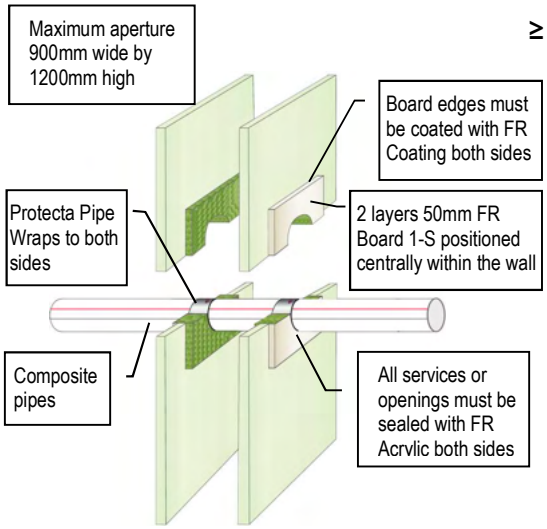
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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 60

≥ 75MM DRYWALLS OR RIGID WALLS



Services	FR 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)

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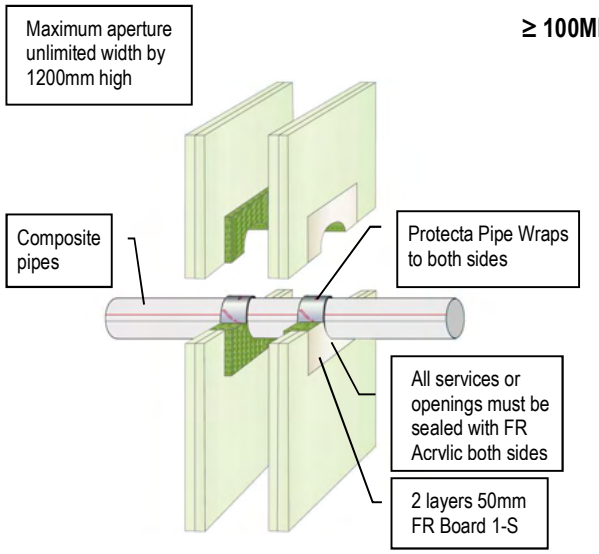
COMPOSITE REHAU RAUPIANO PLUS PLASTIC PIPES FIRE RESISTANCE EI 120

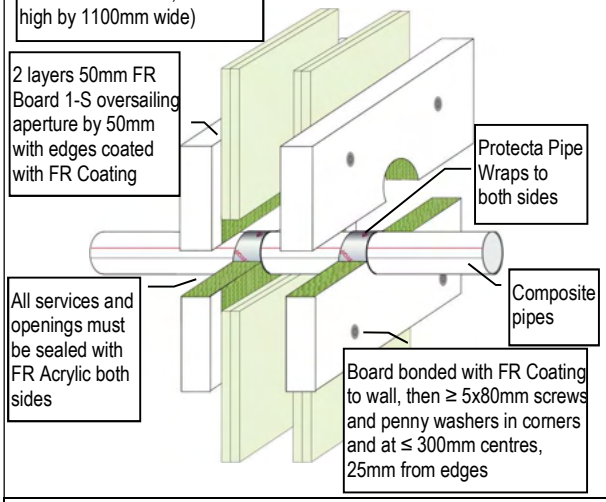
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

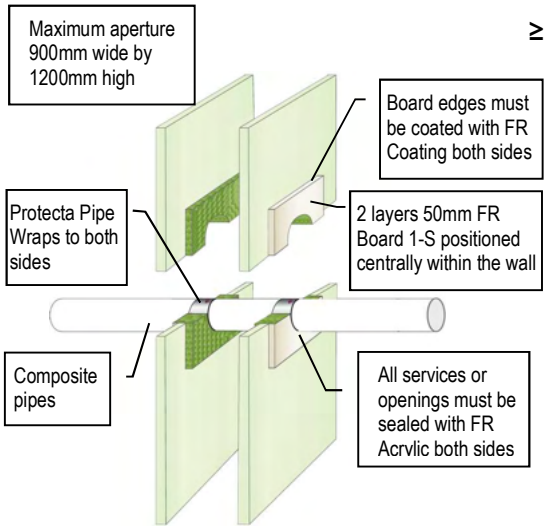
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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



Services	FR 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)

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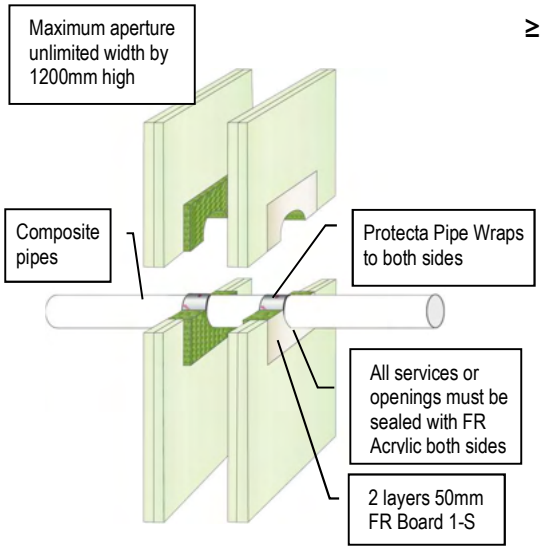
COMPOSITE UPONOR DECIBEL PLASTIC PIPES FIRE RESISTANCE EI 90

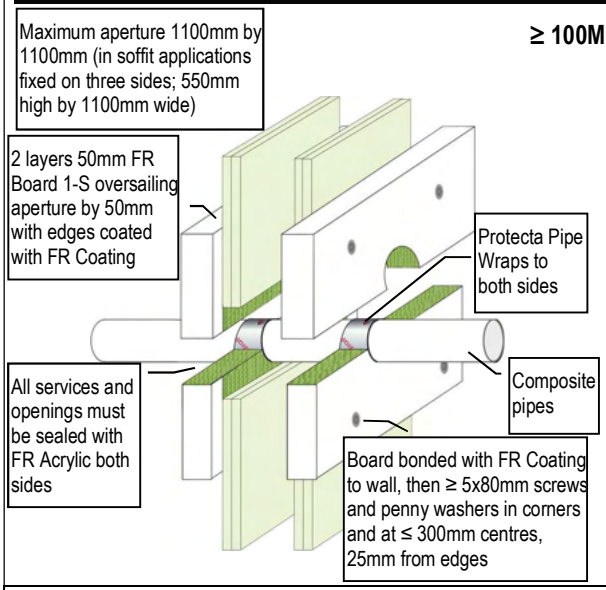
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

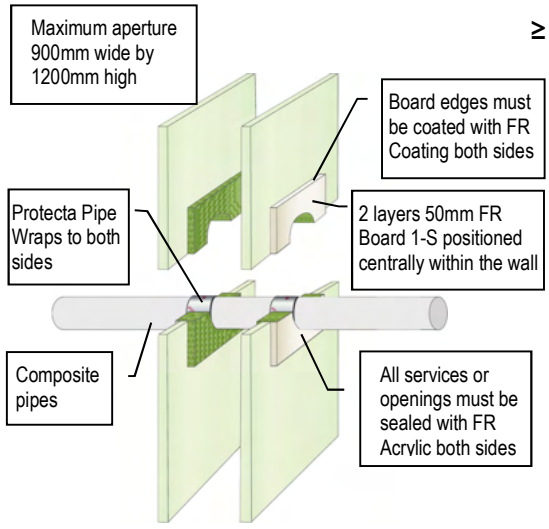
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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



Services	FR 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)

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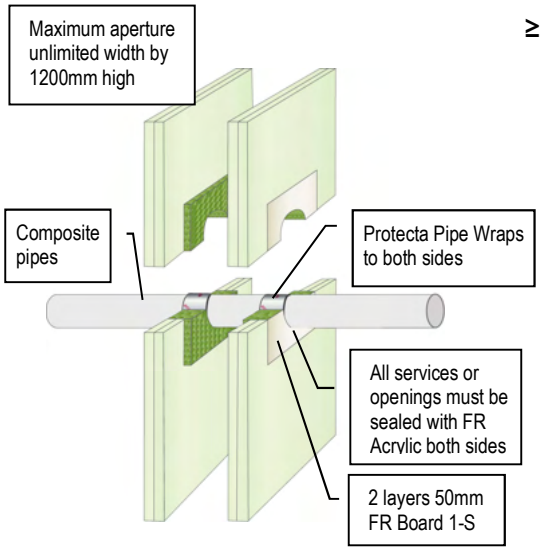
COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

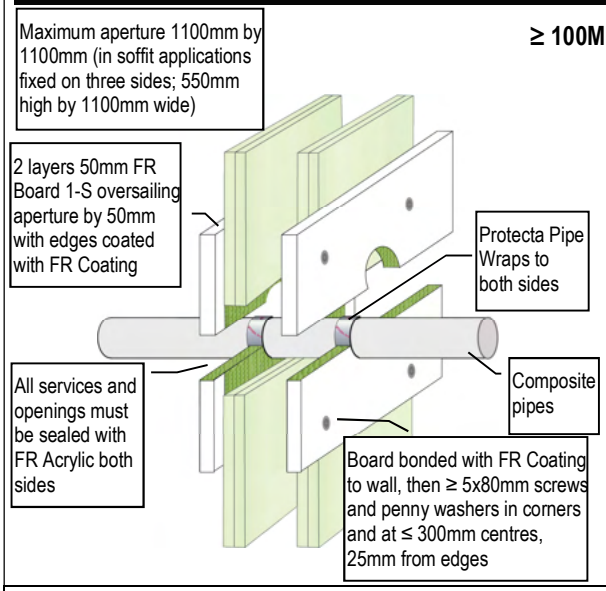
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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 AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

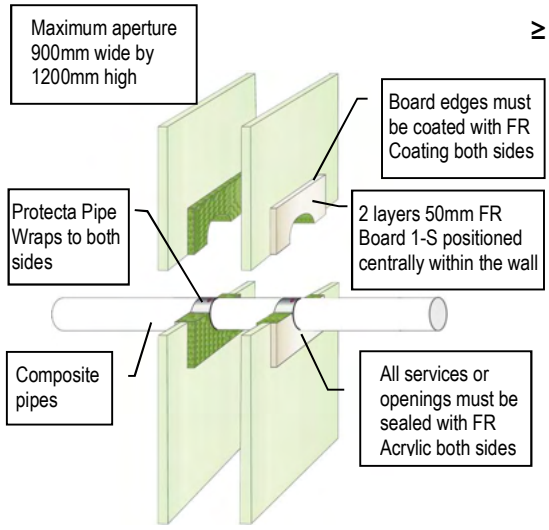
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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 PIPES FIRE RESISTANCE EI 60

≥ 75MM DRYWALLS OR RIGID WALLS



Services	FR 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)

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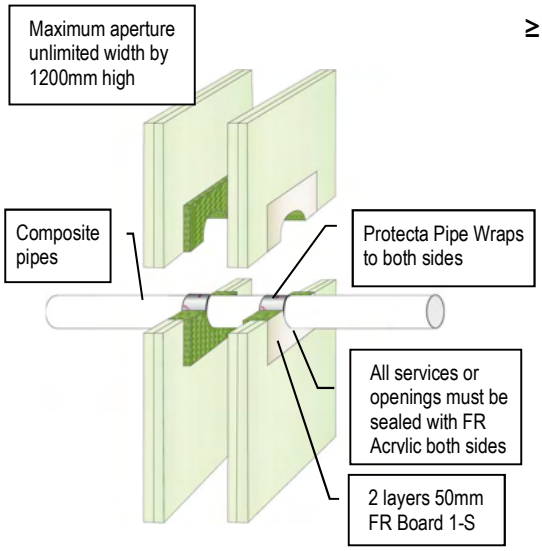
COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 60-90

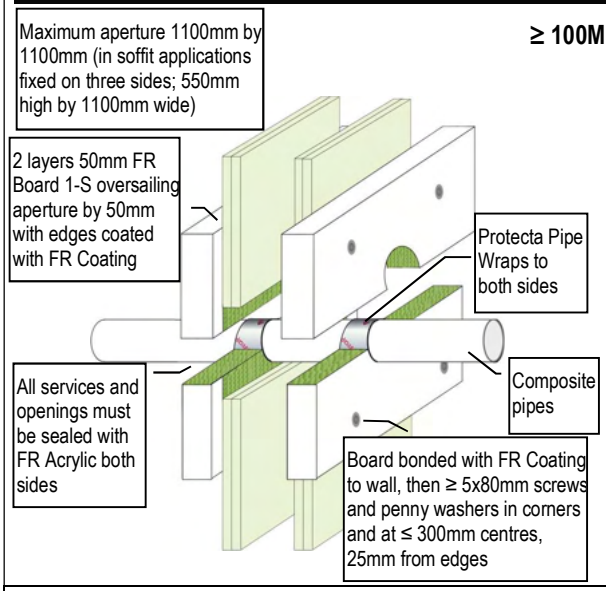
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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

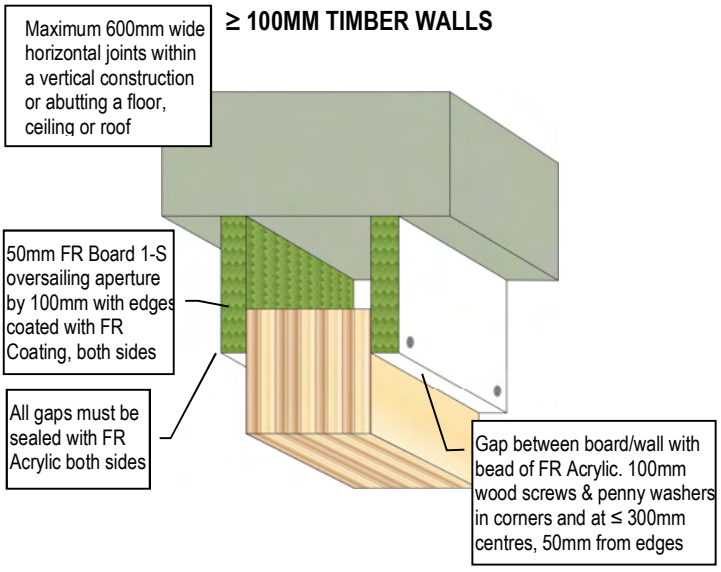
≥ 100MM DRYWALLS OR RIGID WALLS



Services	FR 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)

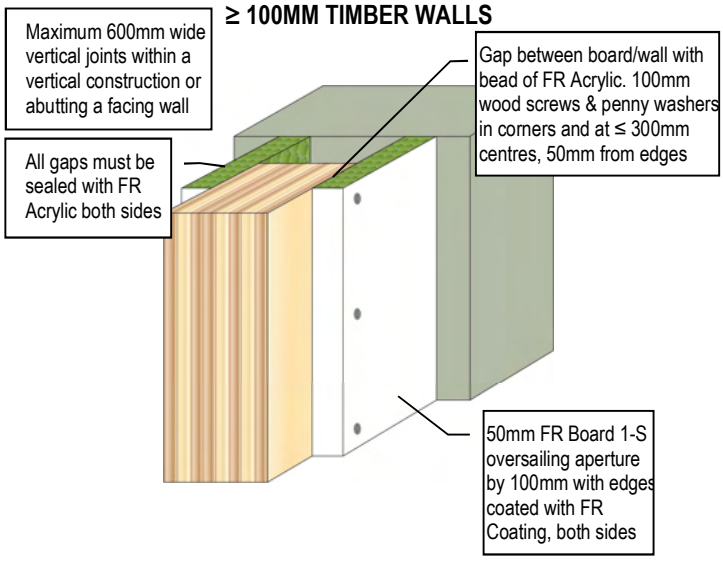
HORIZONTAL LINEAR SEALS FIRE RESISTANCE EI 120 (E120)

≥ 100MM TIMBER WALLS



VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

≥ 100MM TIMBER WALLS



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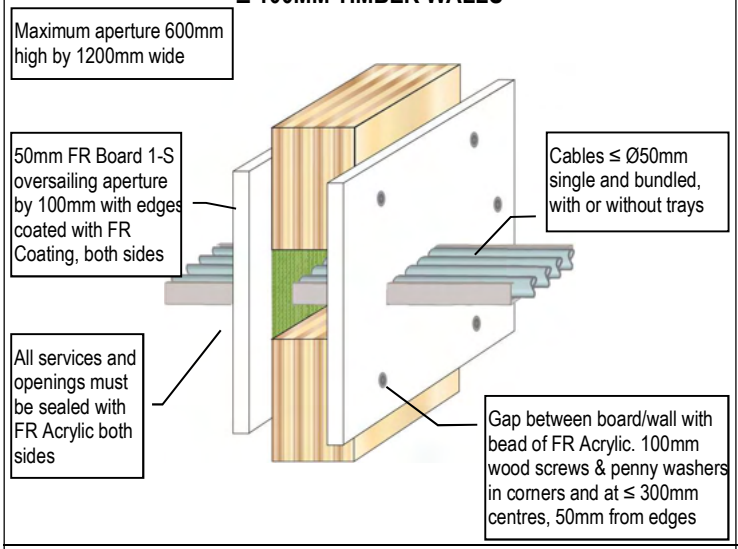
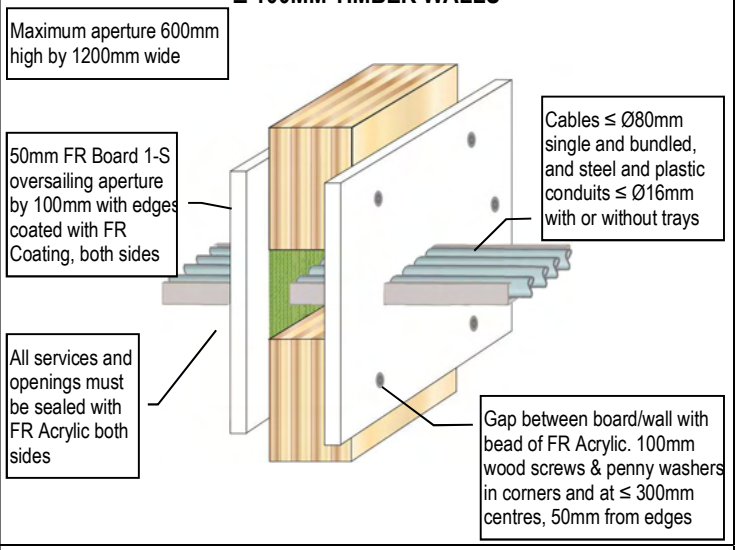
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 120)

≥ 100MM TIMBER WALLS



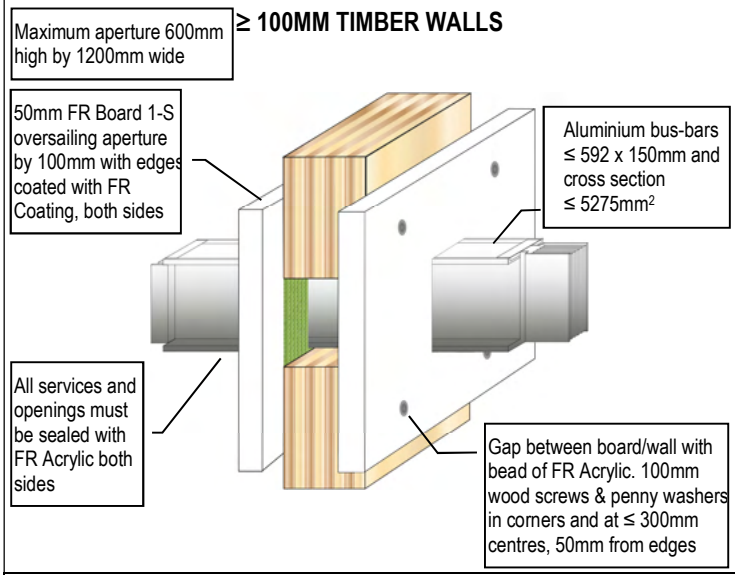
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)

≥ 100MM TIMBER WALLS



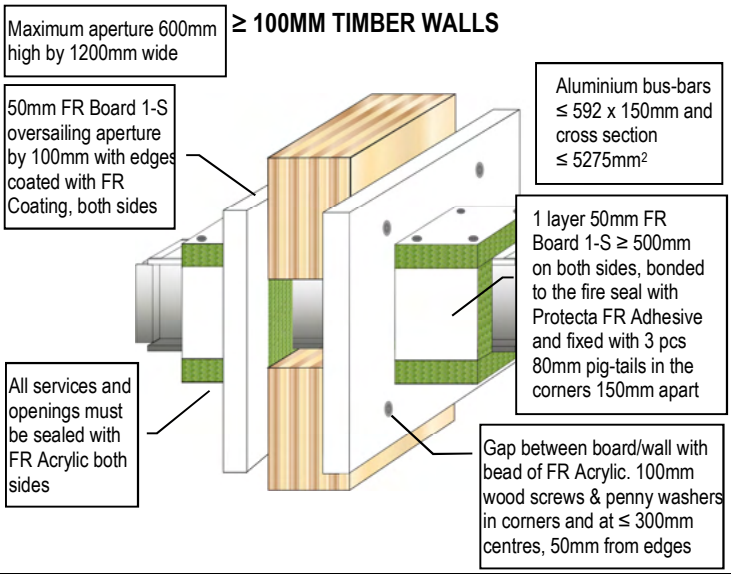
BUS-BARS FIRE RESISTANCE EI 20 (E 90)

≥ 100MM TIMBER WALLS



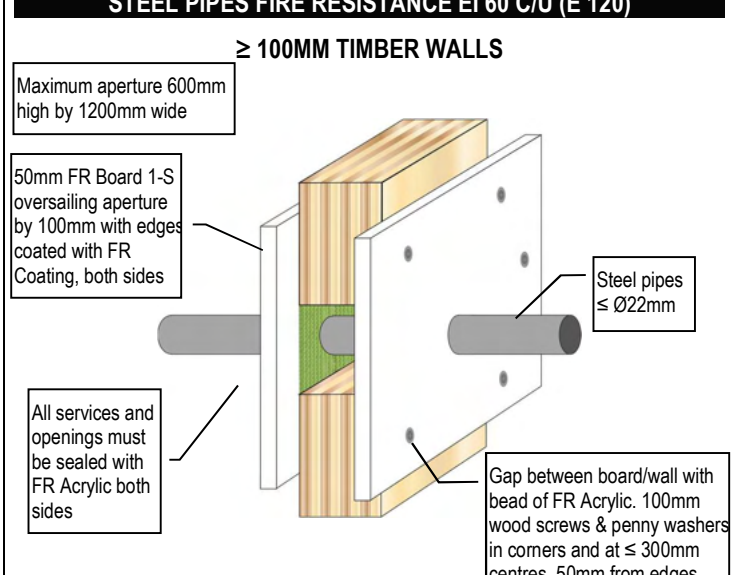
BUS-BARS FIRE RESISTANCE EI 90 (E 90)

≥ 100MM TIMBER WALLS



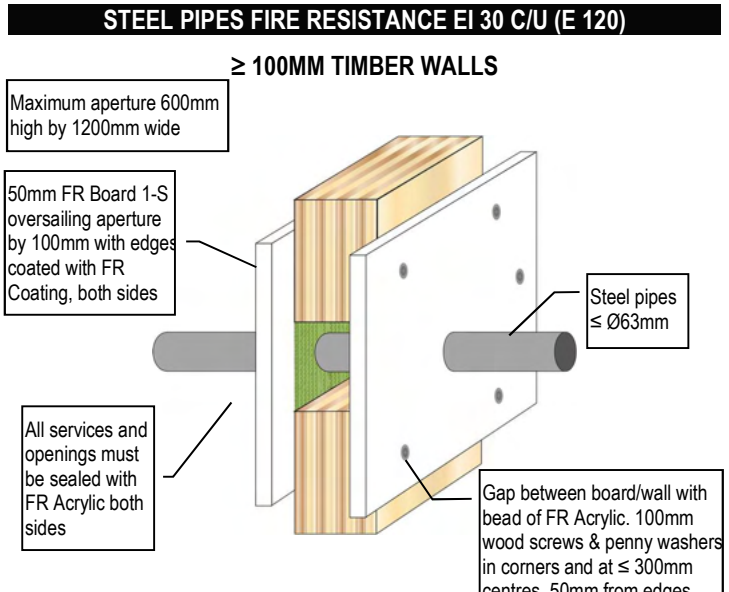
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

≥ 100MM TIMBER WALLS



STEEL PIPES FIRE RESISTANCE EI 30 C/U (E 120)

≥ 100MM TIMBER WALLS



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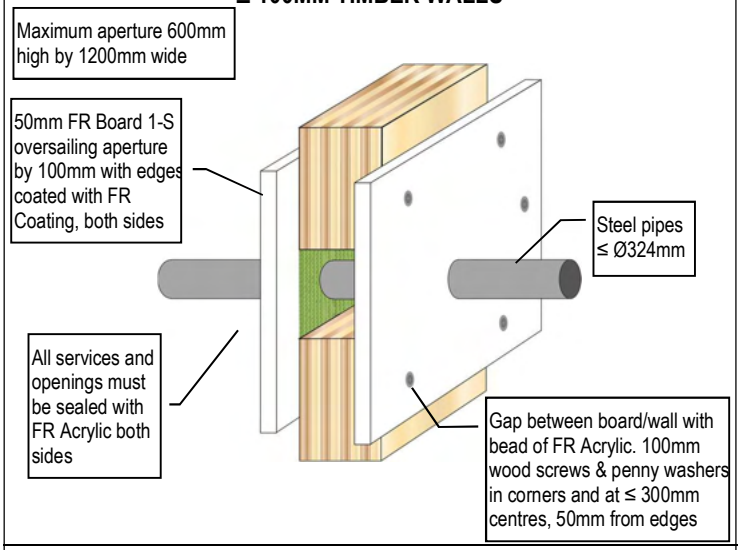
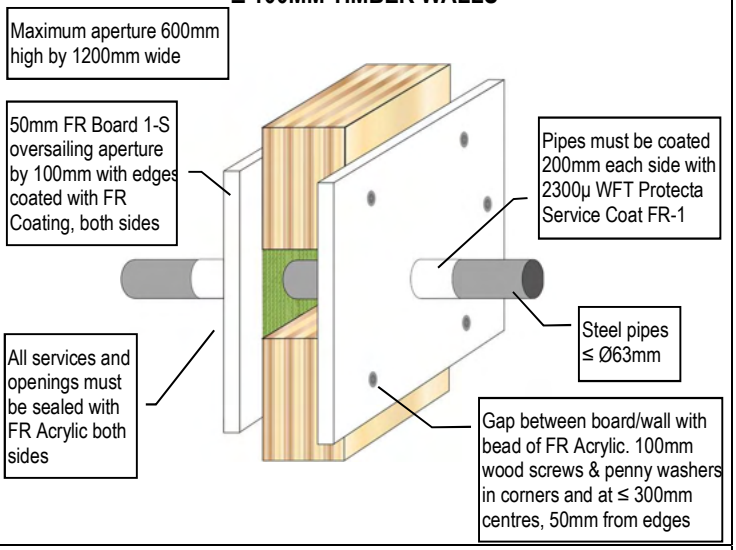
STEEL PIPES FIRE RESISTANCE EI 20 C/U (E 120)

≥ 100MM TIMBER WALLS



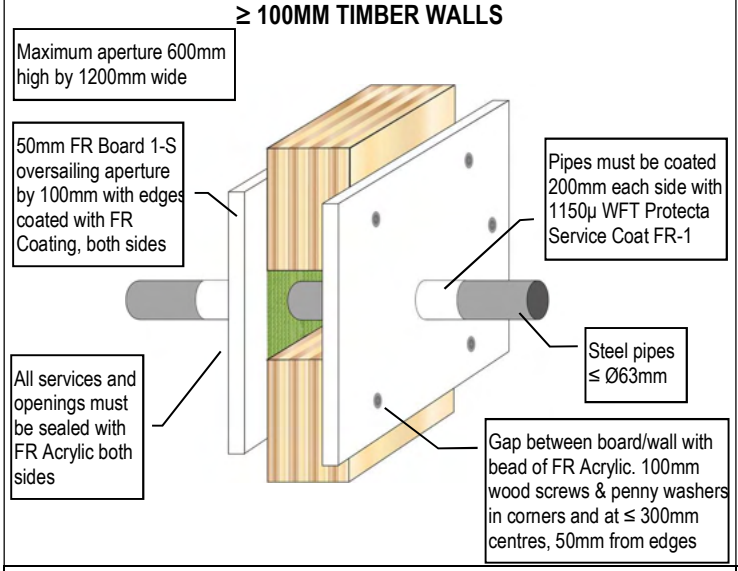
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM TIMBER WALLS



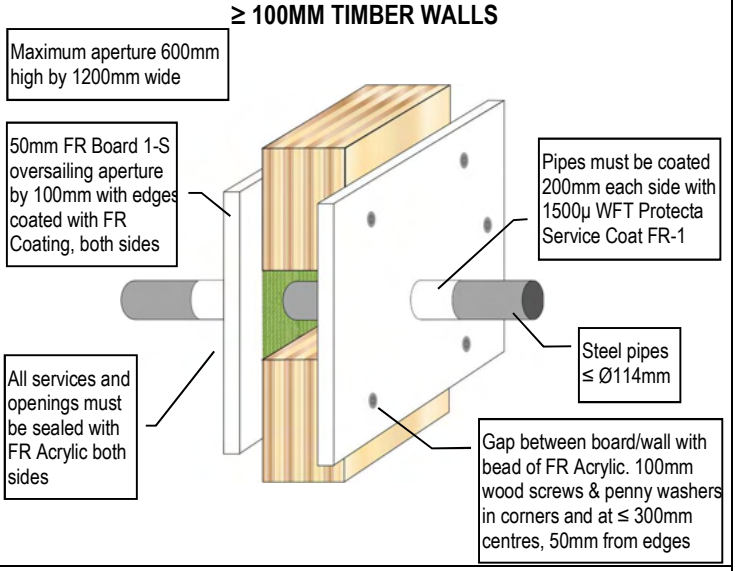
STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



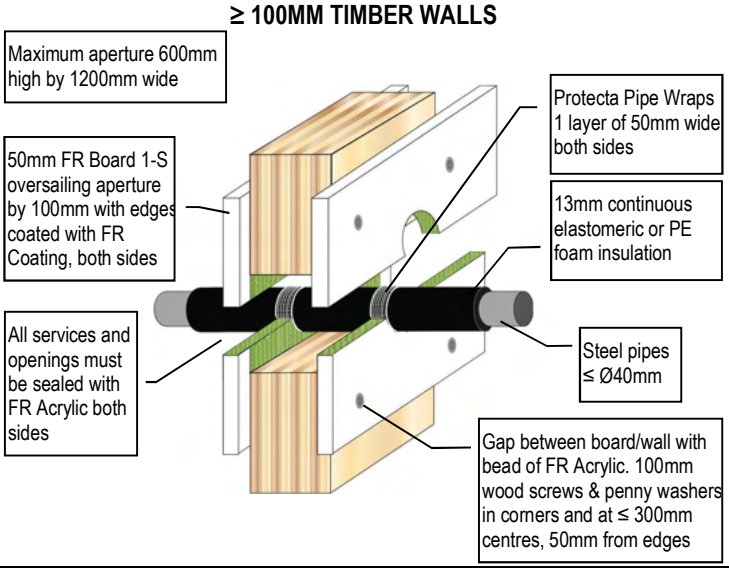
STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)

≥ 100MM TIMBER WALLS



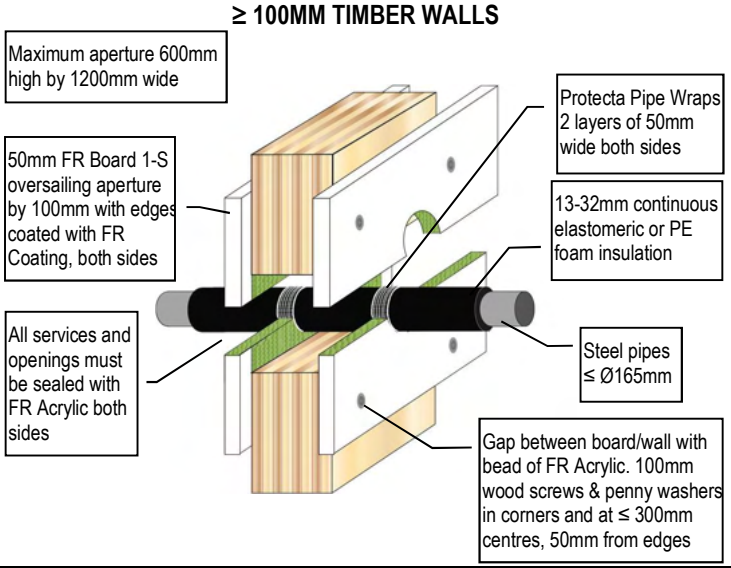
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 U/U (E 120)

≥ 100MM TIMBER WALLS



INSULATED STEEL PIPES FIRE RESISTANCE EI 60 U/U (E 120)

≥ 100MM TIMBER WALLS



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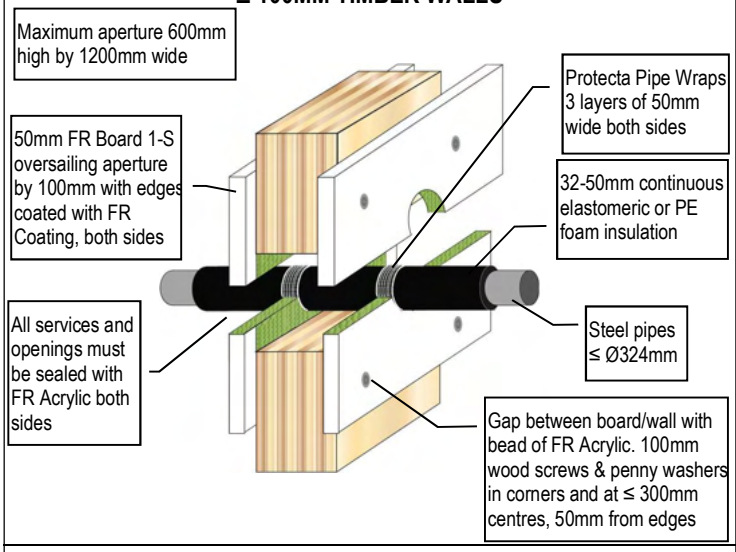
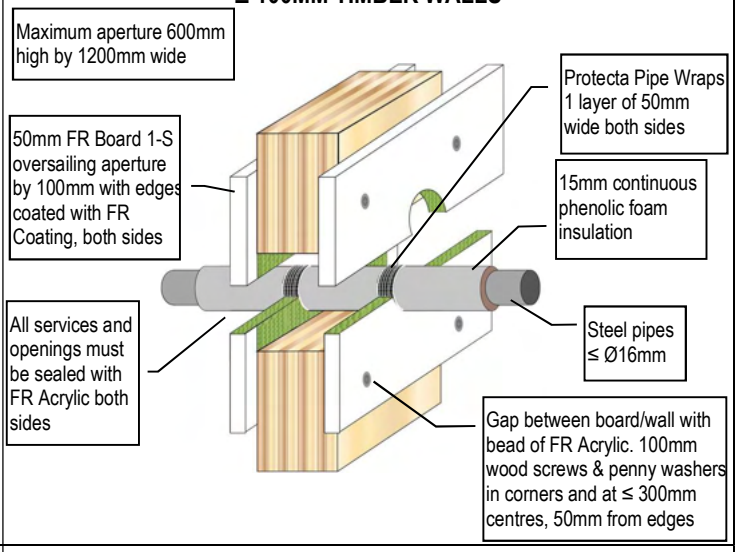
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM TIMBER WALLS



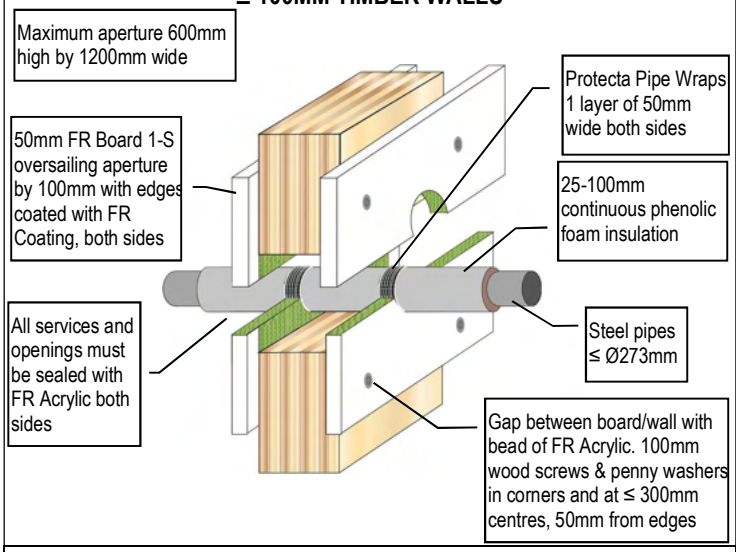
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM TIMBER WALLS



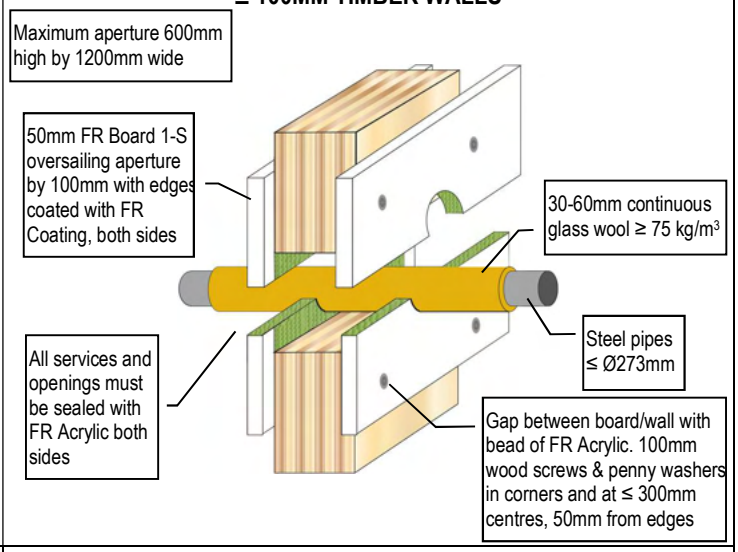
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 100MM TIMBER WALLS



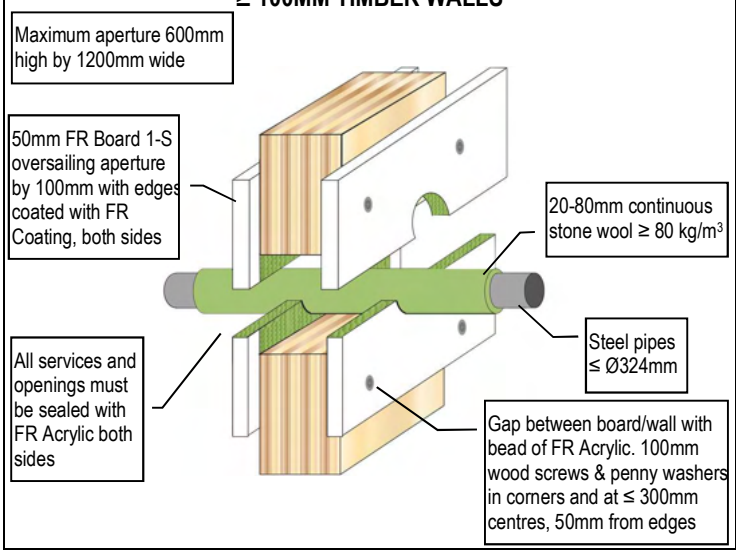
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 60)

≥ 100MM TIMBER WALLS



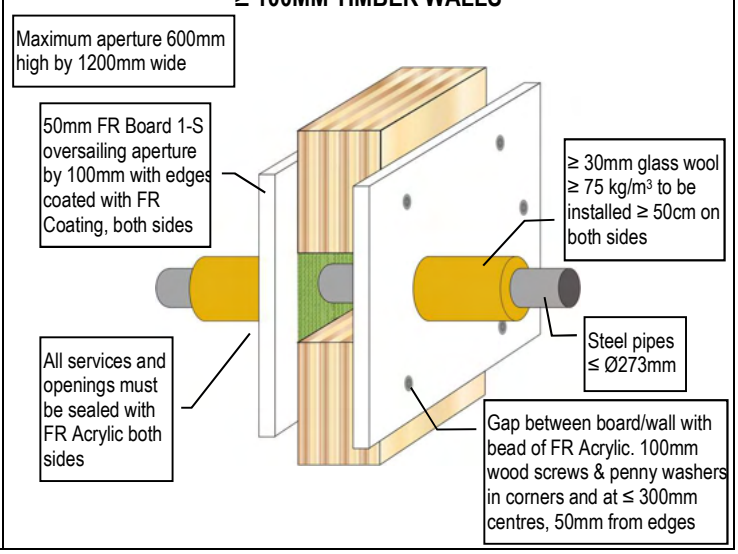
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 100MM TIMBER WALLS



STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 100MM TIMBER WALLS



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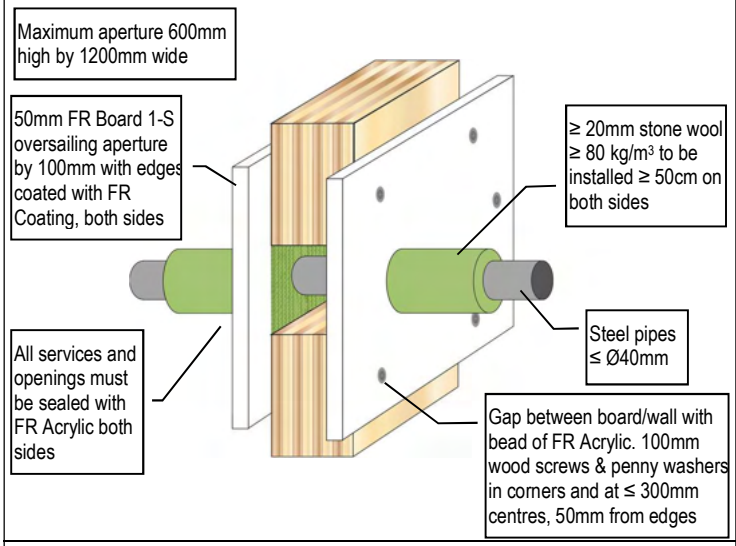
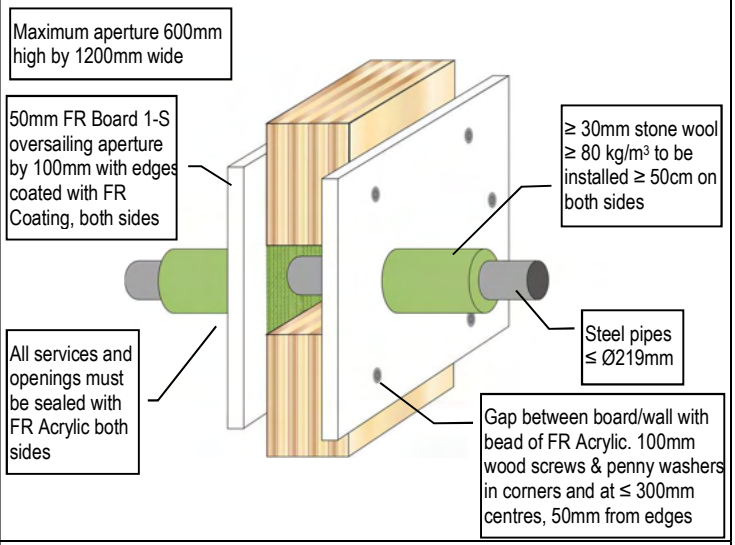
STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 100MM TIMBER WALLS



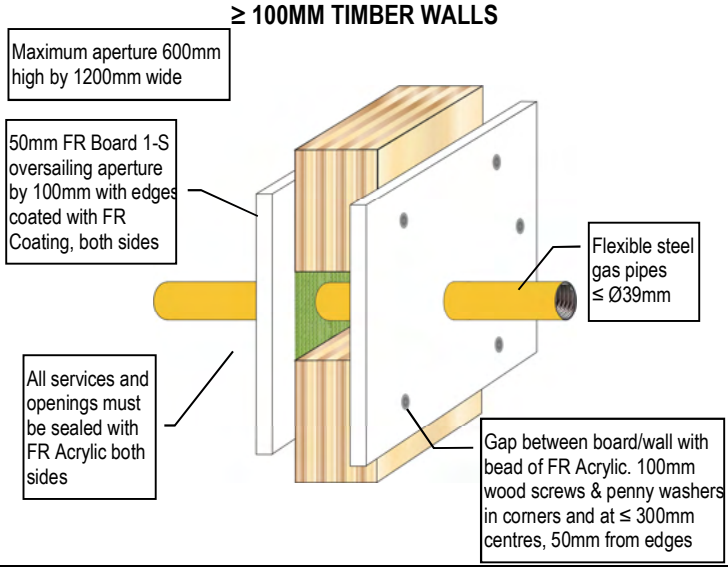
STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 100MM TIMBER WALLS



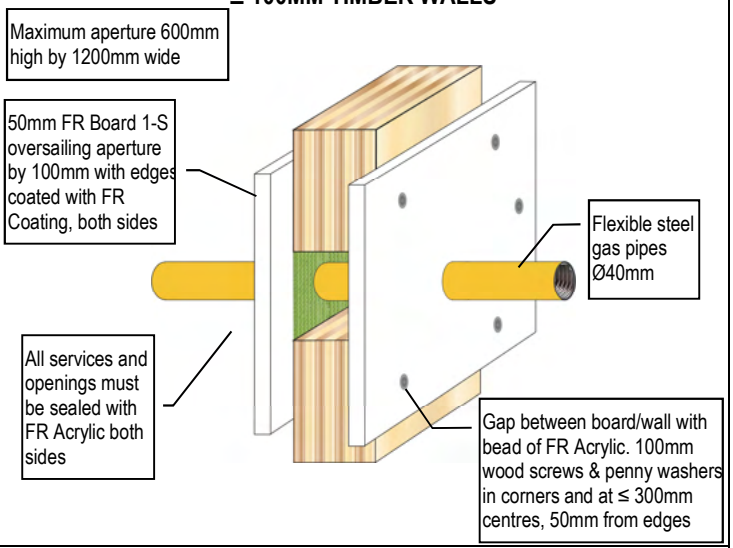
GAS PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM TIMBER WALLS



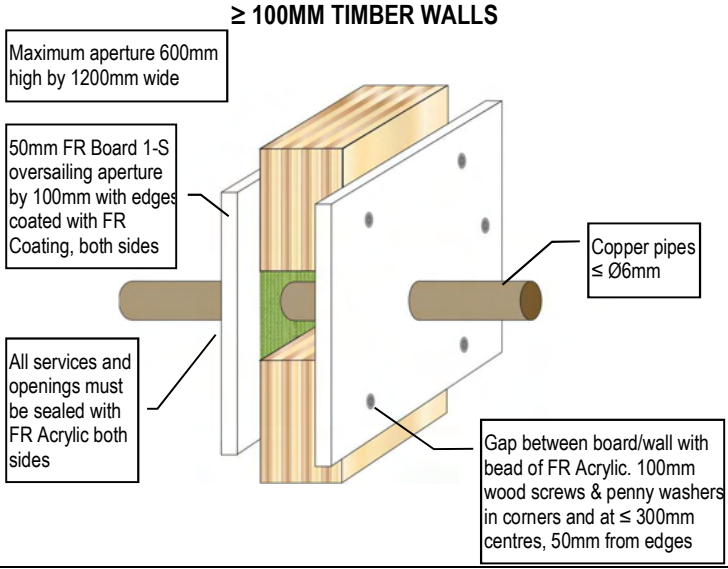
GAS PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



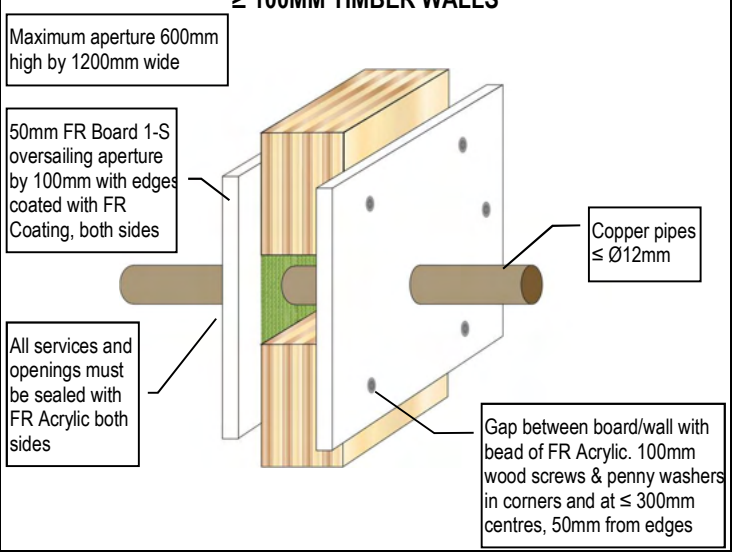
COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM TIMBER WALLS



COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 100MM TIMBER WALLS



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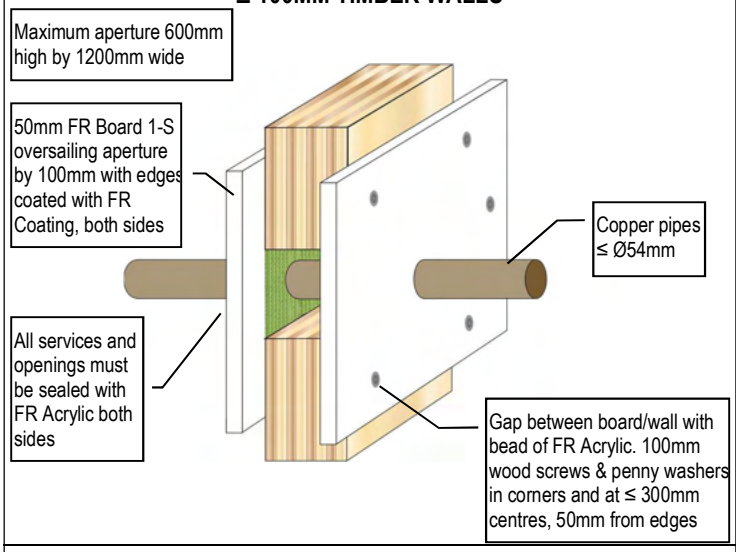
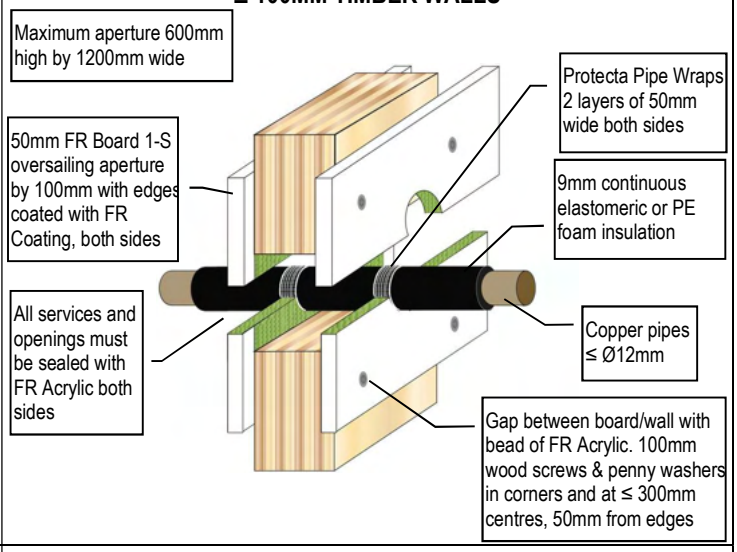
COPPER PIPES FIRE RESISTANCE EI 15 C/C (E 120)

≥ 100MM TIMBER WALLS



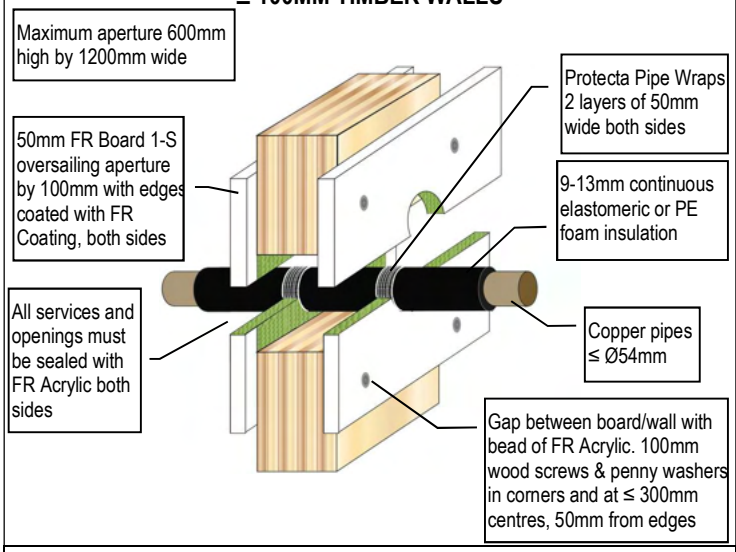
INSULATED COPPER PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



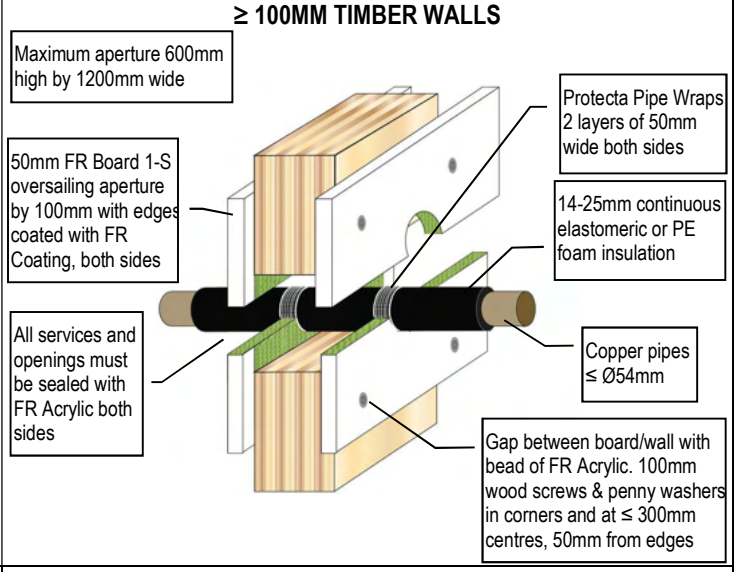
INSULATED COPPER PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM TIMBER WALLS



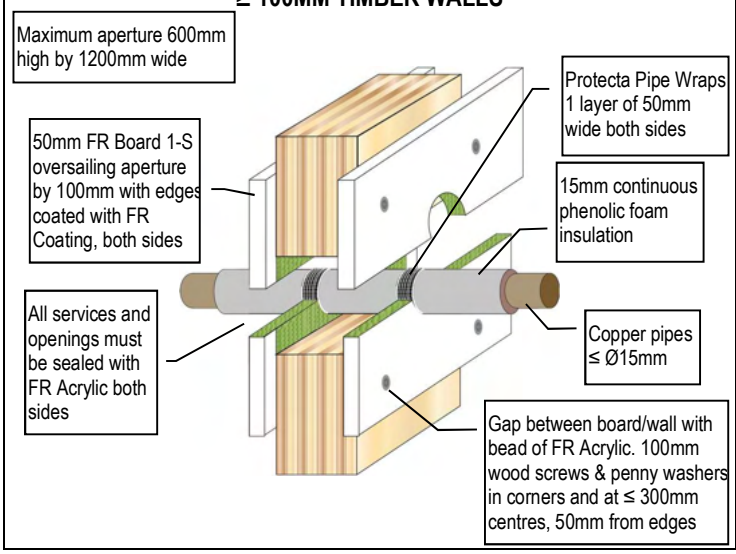
INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM TIMBER WALLS



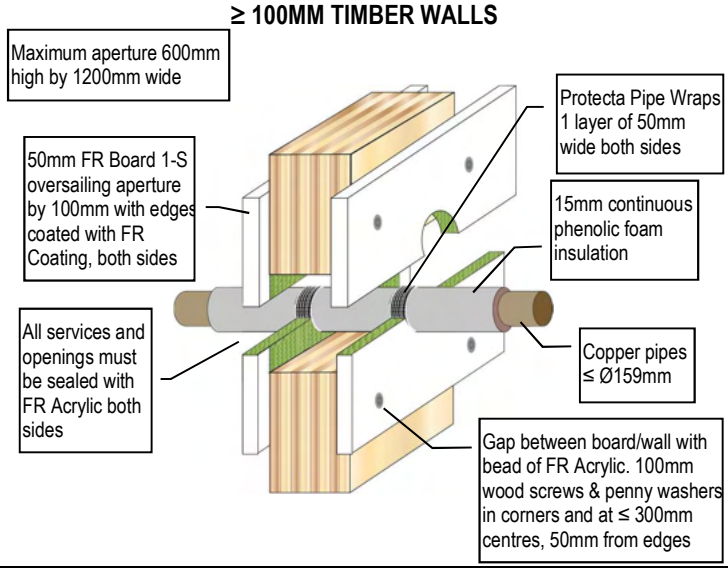
INSULATED COPPER PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM TIMBER WALLS



INSULATED COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 100MM TIMBER WALLS



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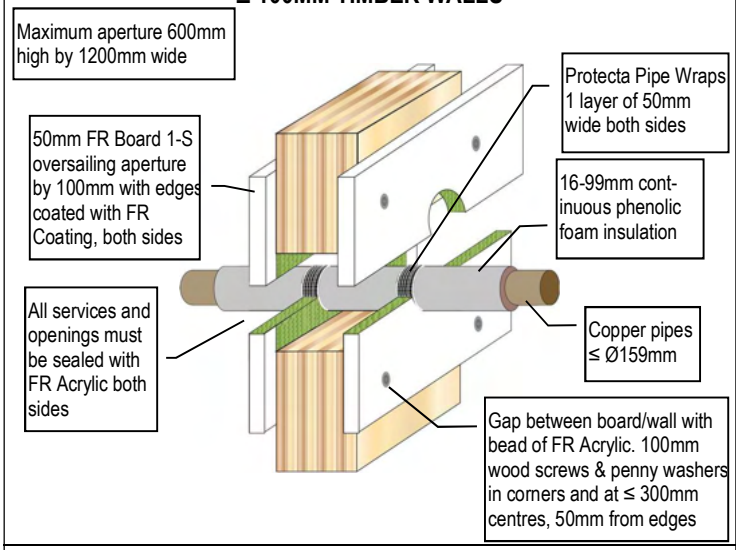
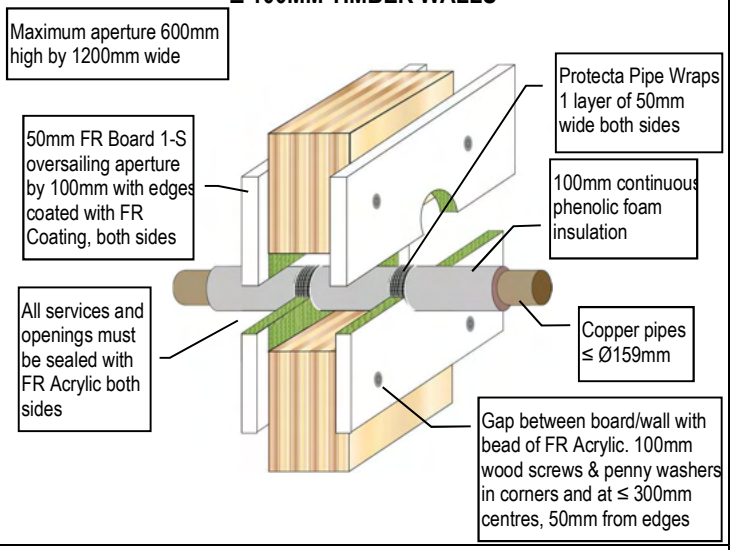
INSULATED COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 100MM TIMBER WALLS



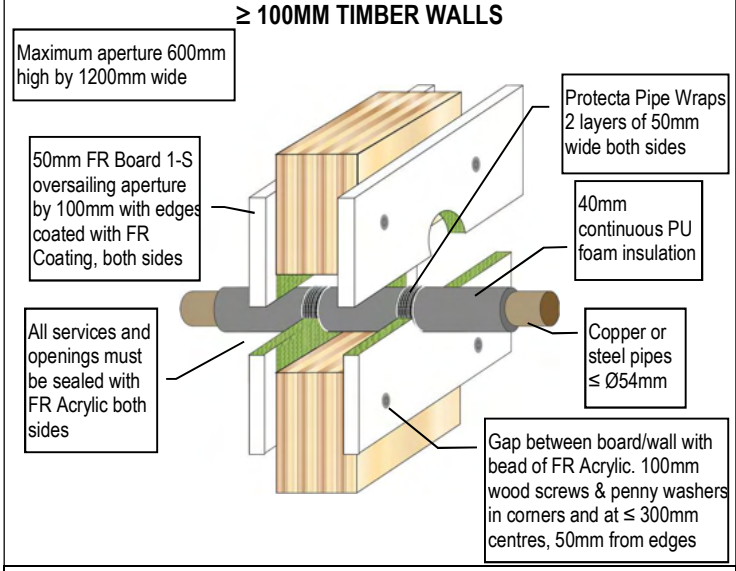
INSULATED COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM TIMBER WALLS



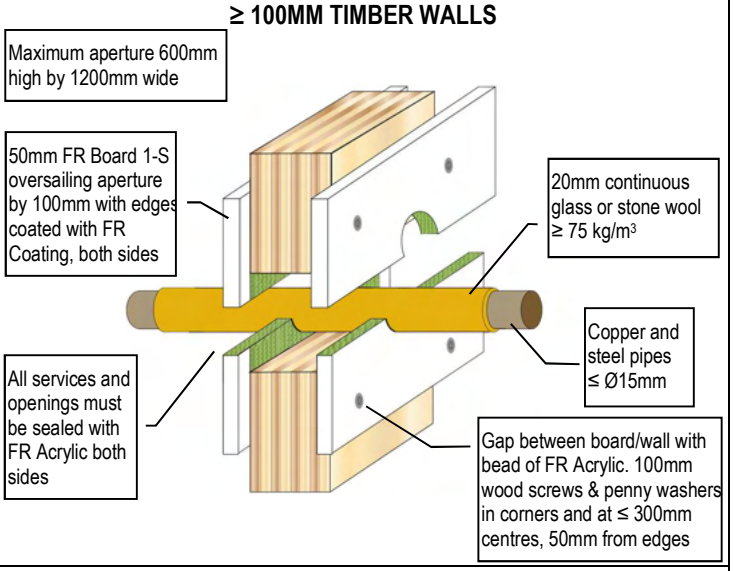
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 120)

≥ 100MM TIMBER WALLS



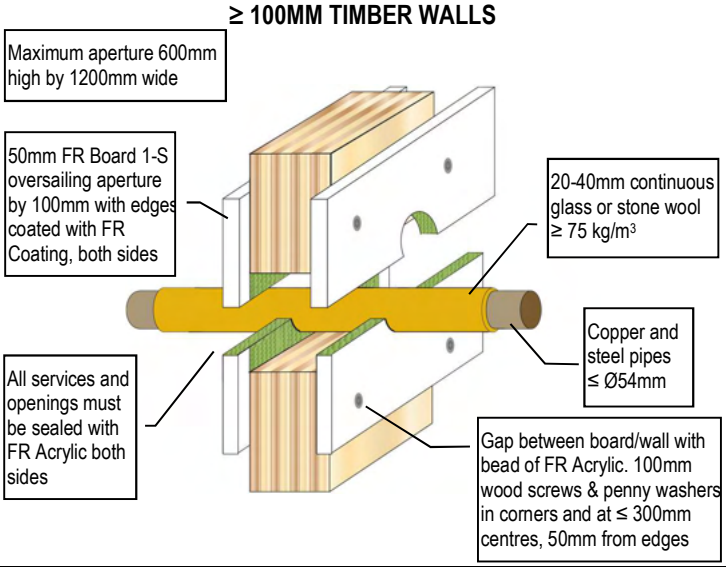
COPPER & STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM TIMBER WALLS



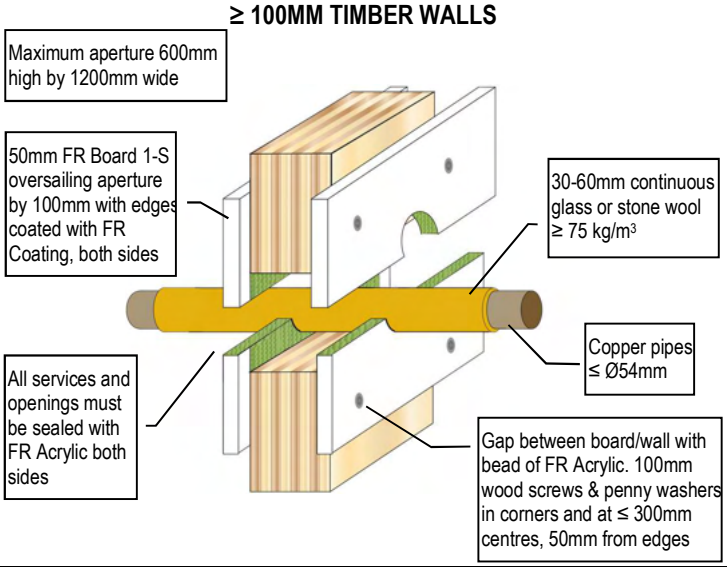
COPPER & STEEL PIPES FIRE RESISTANCE EI 45 C/C (E 120)

≥ 100MM TIMBER WALLS



COPPER PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM TIMBER WALLS



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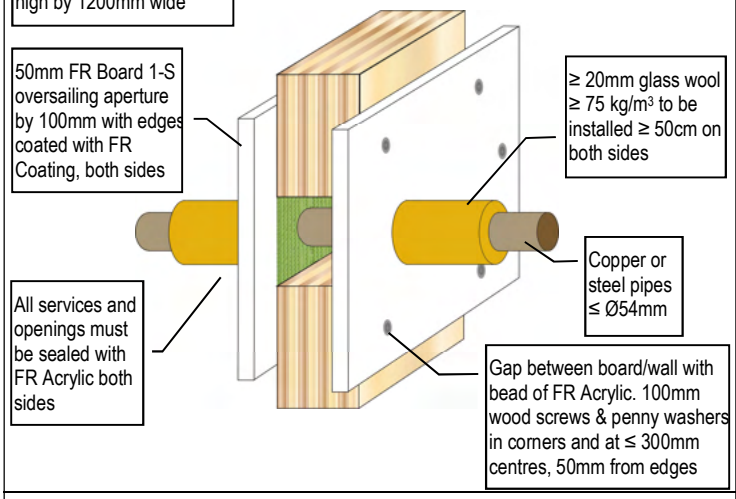
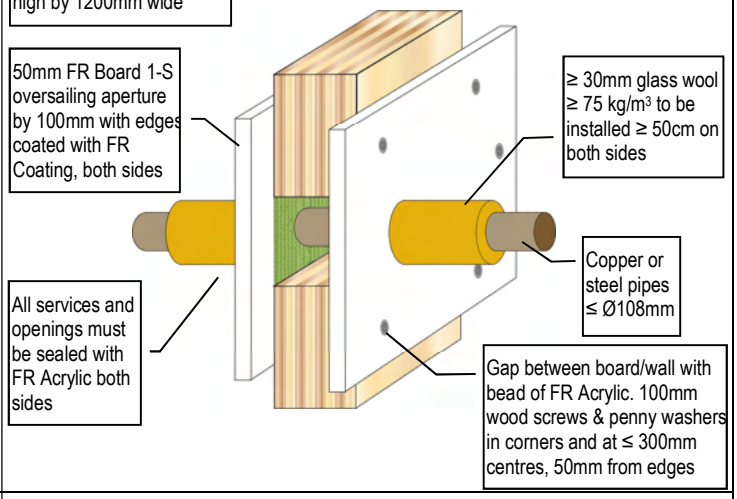
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 100MM TIMBER WALLS



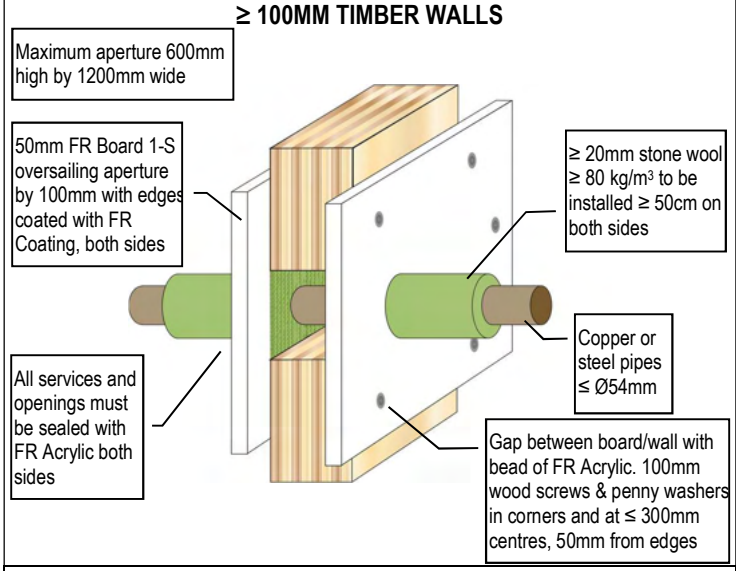
COPPER OR STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 120)

≥ 100MM TIMBER WALLS



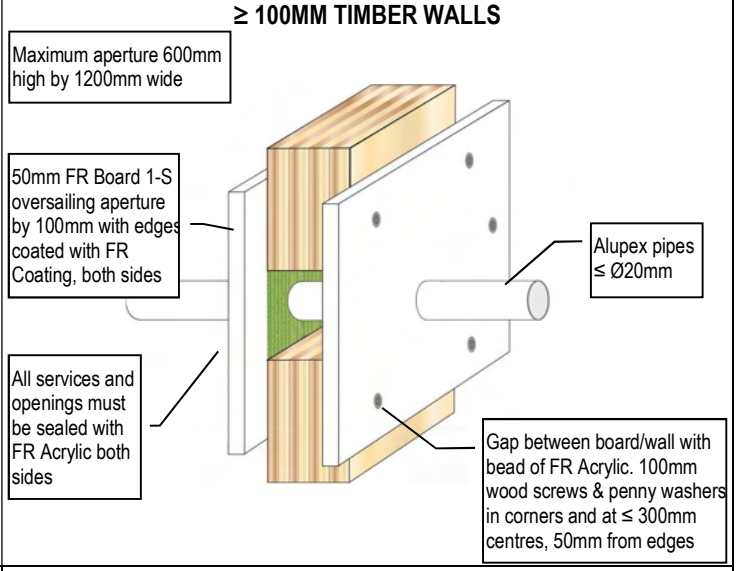
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



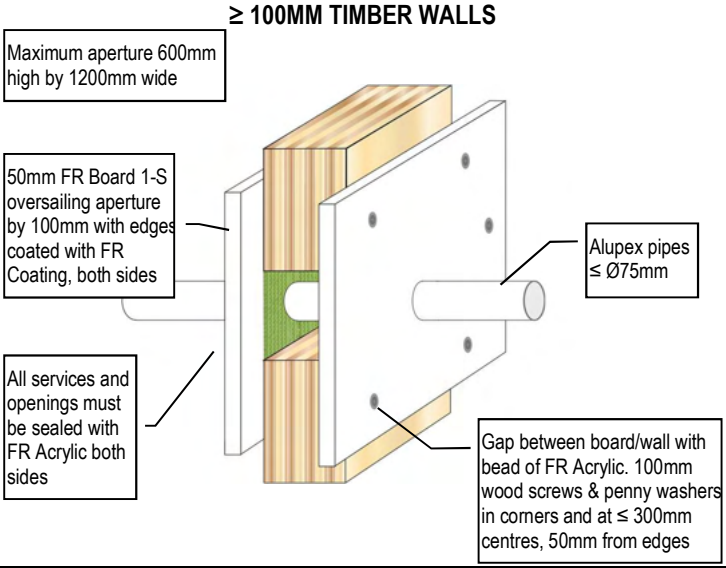
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



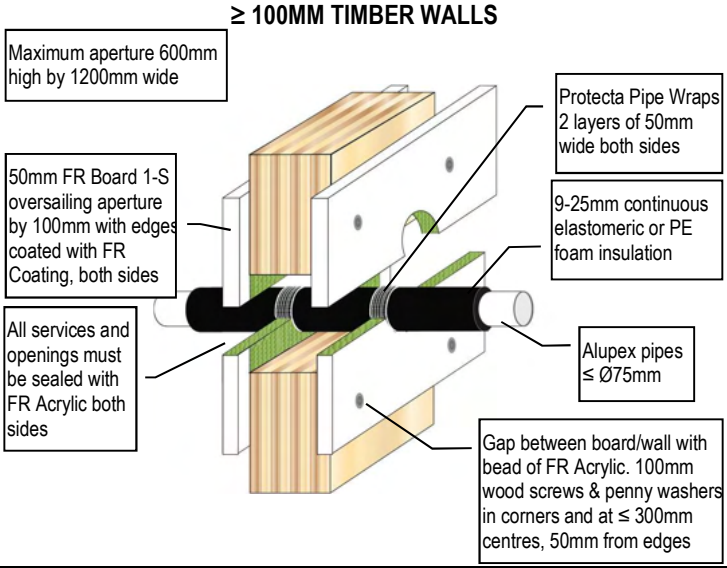
ALUPEX PIPES FIRE RESISTANCE EI 20 C/C (E 120)

≥ 100MM TIMBER WALLS



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

≥ 100MM TIMBER WALLS



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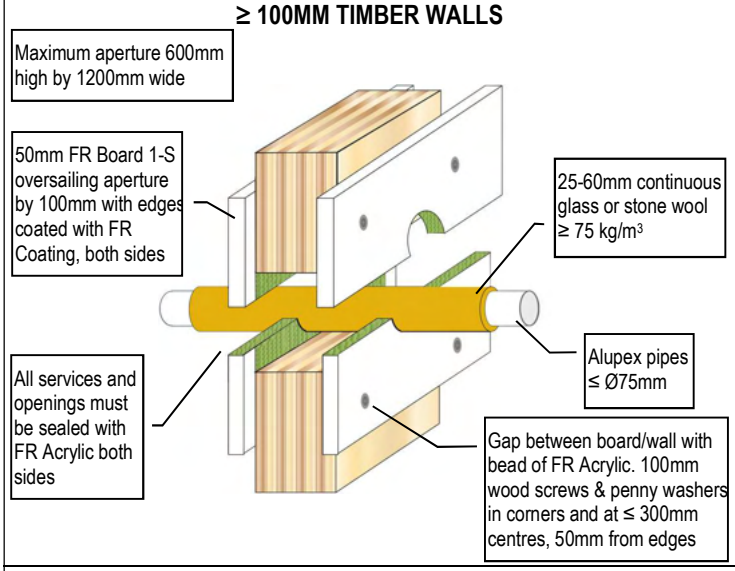
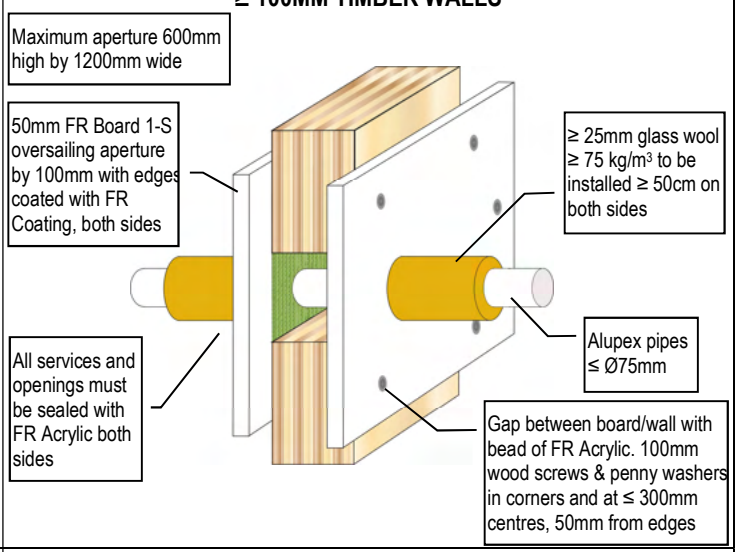
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 120)

≥ 100MM TIMBER WALLS



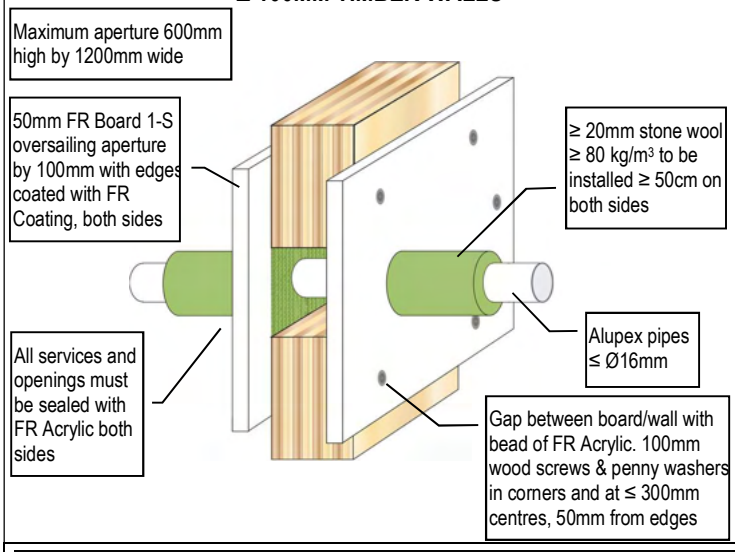
ALUPEX PIPES FIRE RESISTANCE EI 30 C/C (E 30)

≥ 100MM TIMBER WALLS



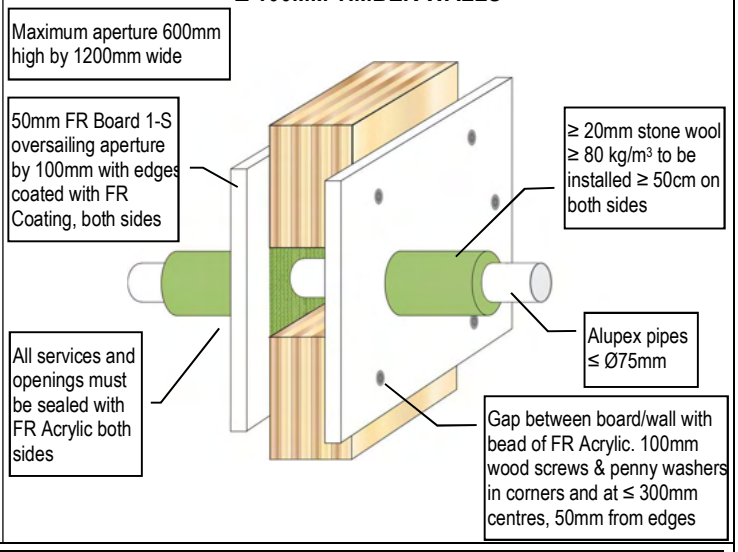
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 100MM TIMBER WALLS



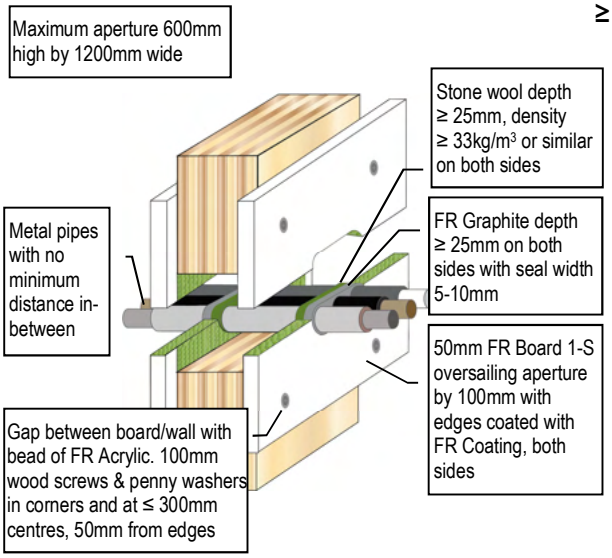
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 100MM TIMBER WALLS



INSULATED METAL PIPES WITH FR GRAPHITE FIRE RESISTANCE EI 60-120

≥ 100MM TIMBER WALLS



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)

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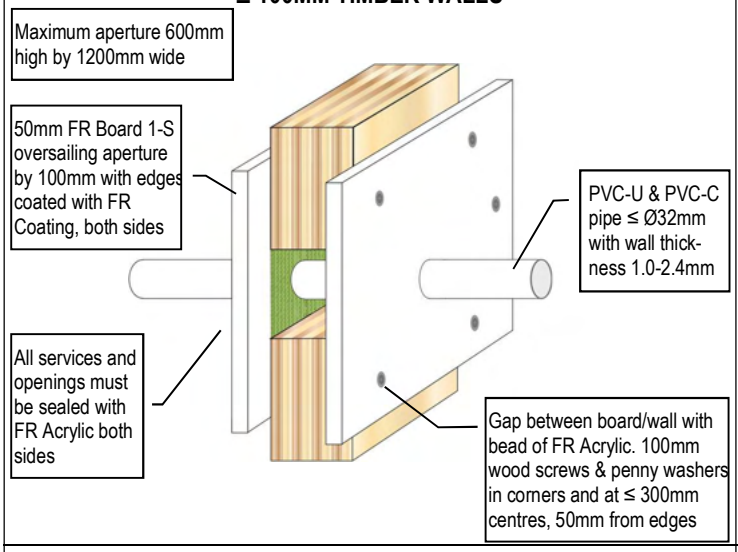
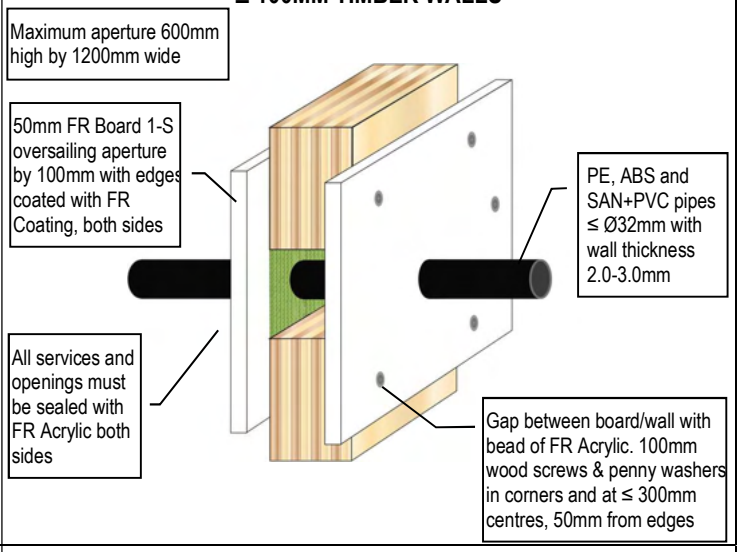
PVC PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 100MM TIMBER WALLS



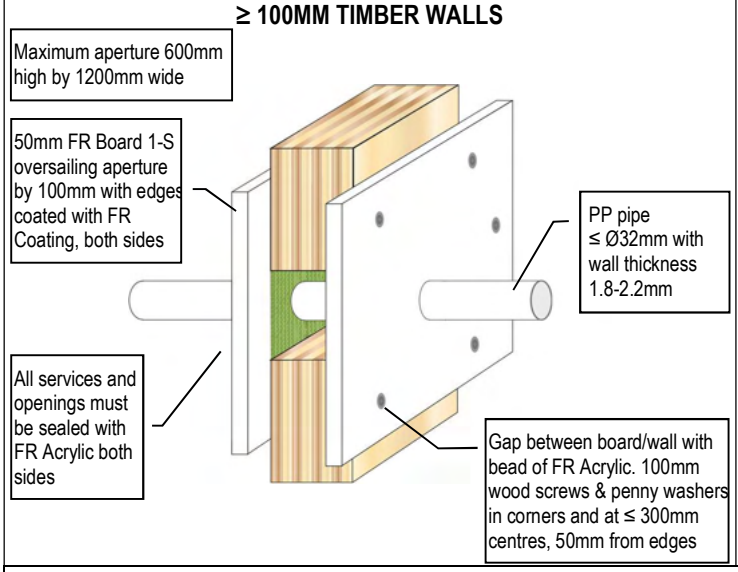
PE PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 100MM TIMBER WALLS



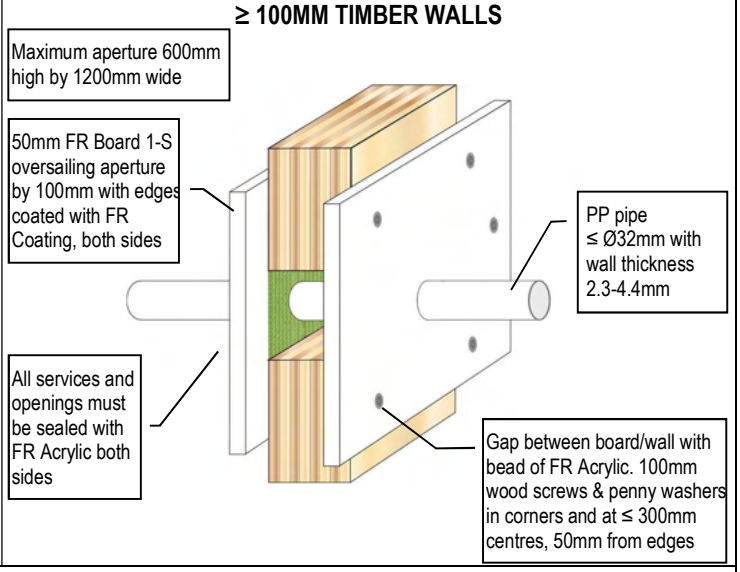
PP PIPES FIRE RESISTANCE EI 60 U/C (E 120)

≥ 100MM TIMBER WALLS



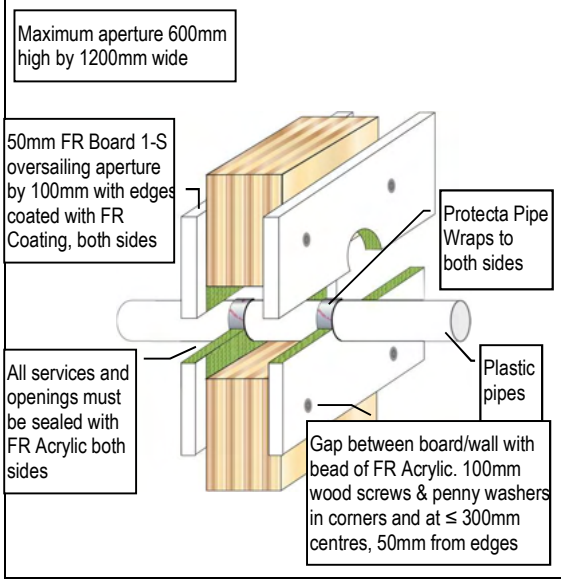
PP PIPES FIRE RESISTANCE EI 45 C/C (E 45)

≥ 100MM TIMBER WALLS



PLASTIC PIPES FIRE RESISTANCE EI 60-120

≥ 100MM TIMBER WALLS



Services	Pipe Wall Thickness	FR 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)

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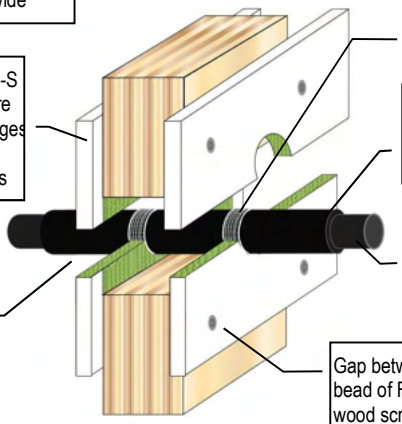
INSULATED PE PIPES FIRE RESISTANCE EI 60 C/C (E 60)

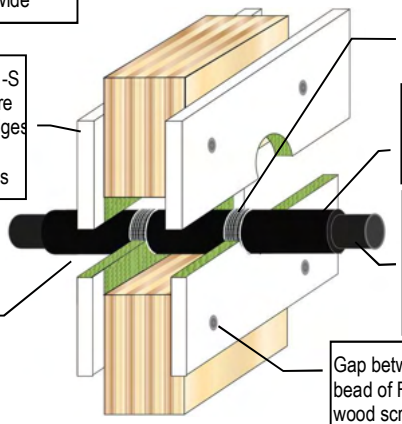
≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 2 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø68mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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

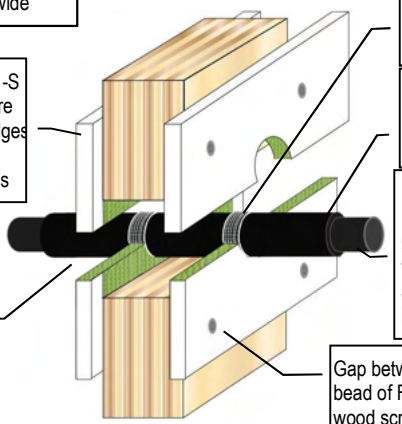
≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 6 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PE, ABS and SAN+PVC pipes with wall thickness 3.0-9.5mm, ≤ Ø178mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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

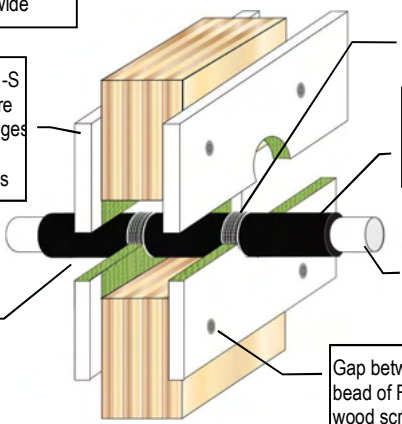
≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 10 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PE, ABS & SAN+ PVC pipes ≤ Ø160mm with wall thickness 3.0-9.5mm, and ≤ Ø260mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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

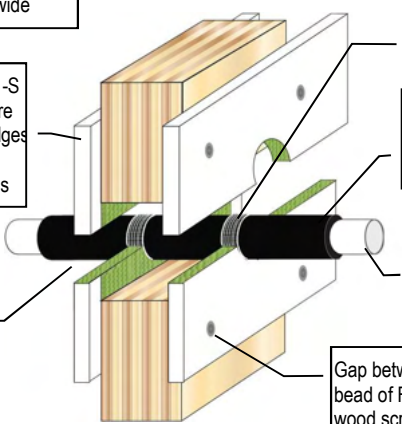
≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 2 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PP pipes with wall thickness 1.8-14.6mm, ≤ Ø68mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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

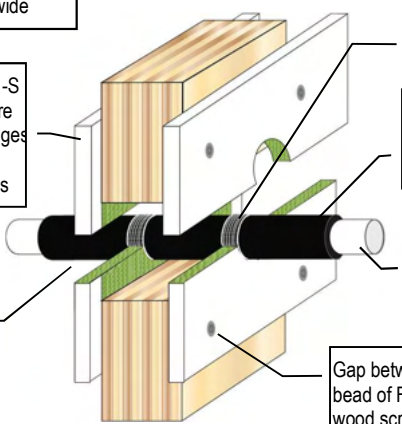
≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 6 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PP pipes with wall thickness 1.8-14.6mm, ≤ Ø178mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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

≥ 100MM TIMBER WALLS



- Maximum aperture 600mm high by 1200mm wide
- 50mm FR Board 1-S oversailing aperture by 100mm with edges coated with FR Coating, both sides
- All services and openings must be sealed with FR Acrylic both sides
- Protecta Pipe Wraps 10 layers of 50mm wide both sides
- 9-50mm continuous elastomeric or PE foam insulation
- PP pipes ≤ Ø160mm with wall thickness 1.8-14.6mm, and ≤ Ø260mm incl. insulation
- Gap between board/wall with bead of FR Acrylic. 100mm wood screws & penny washers in corners and at ≤ 300mm centres, 50mm from edges

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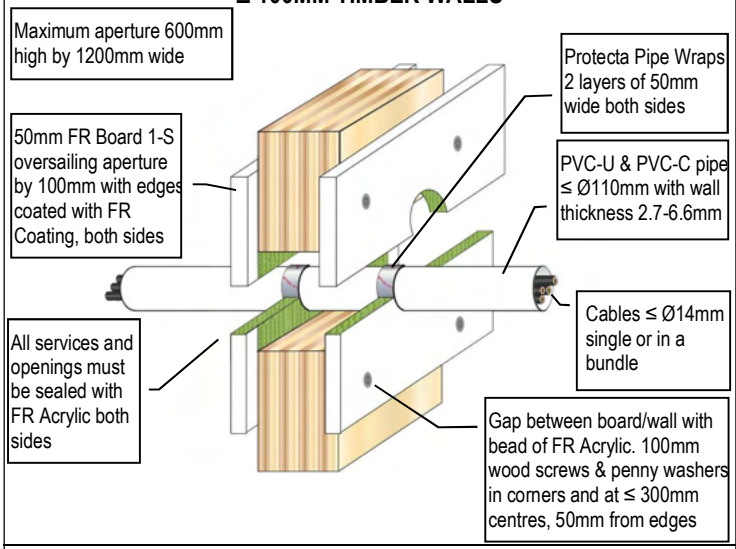
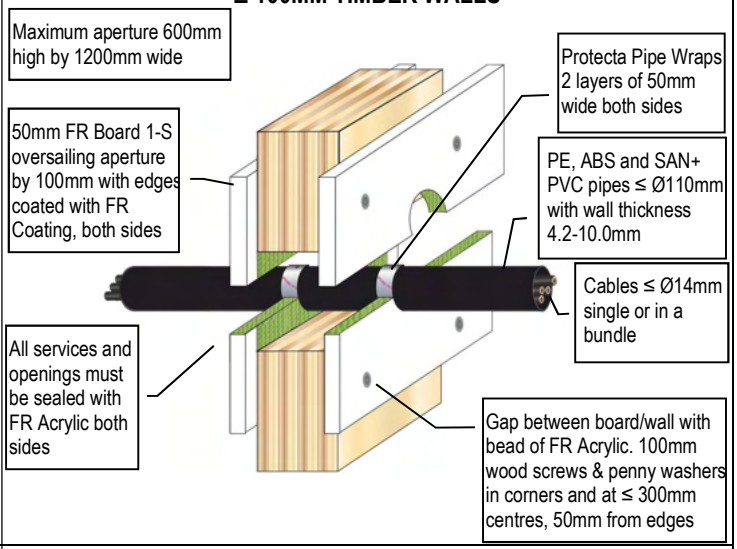
PVC CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM TIMBER WALLS



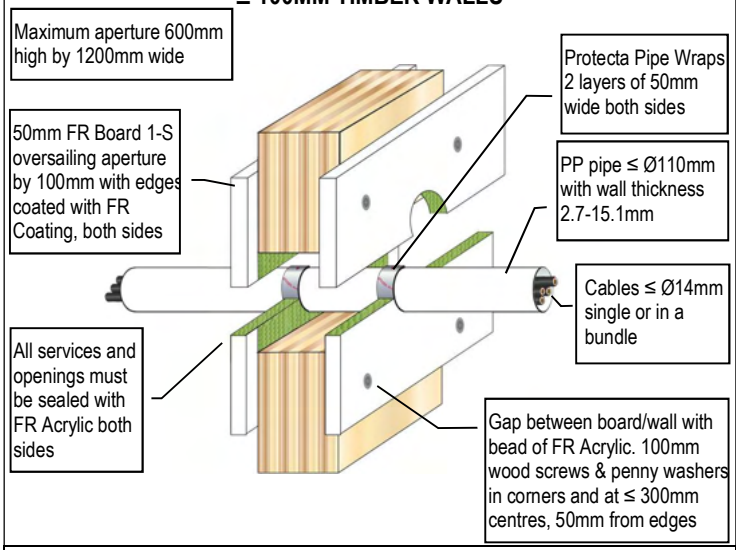
PE CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM TIMBER WALLS



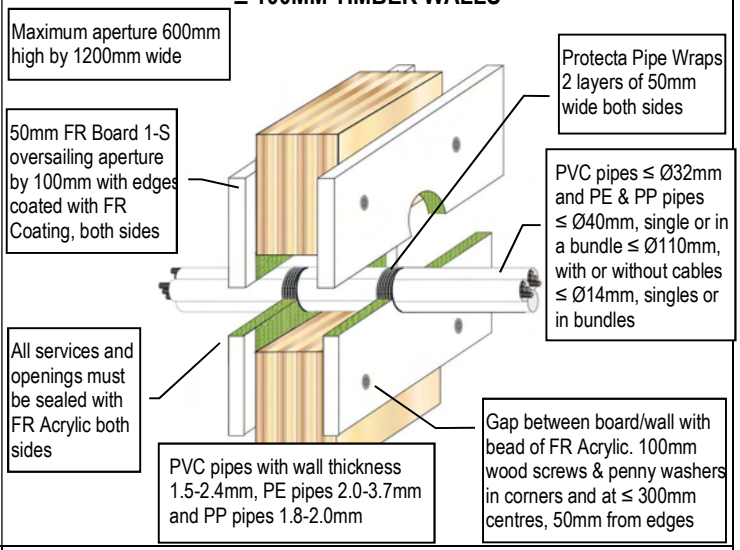
PP CONDUITS FIRE RESISTANCE EI 90 U/C (E 120)

≥ 100MM TIMBER WALLS



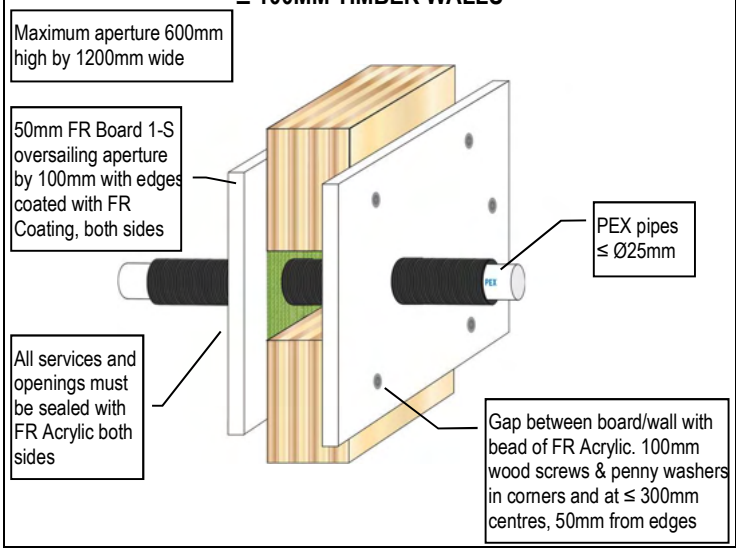
PLASTIC PIPES & CONDUITS FIRE RESISTANCE EI 90 U/C (E 90)

≥ 100MM TIMBER WALLS



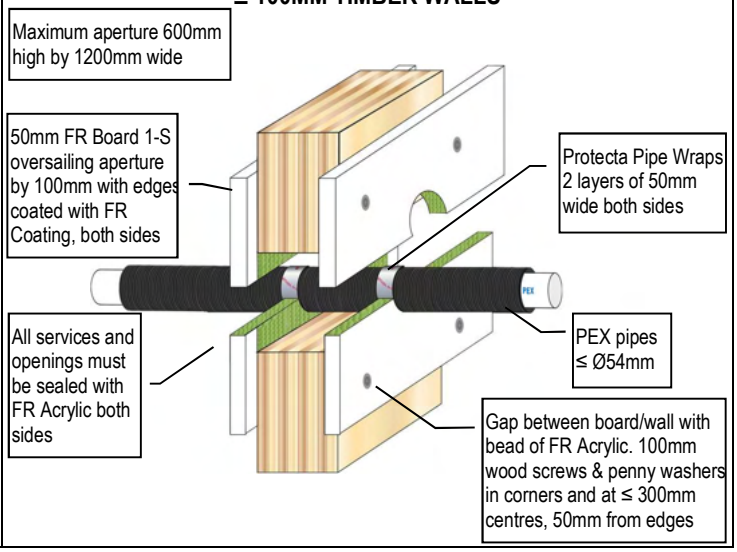
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

≥ 100MM TIMBER WALLS



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

≥ 100MM TIMBER WALLS



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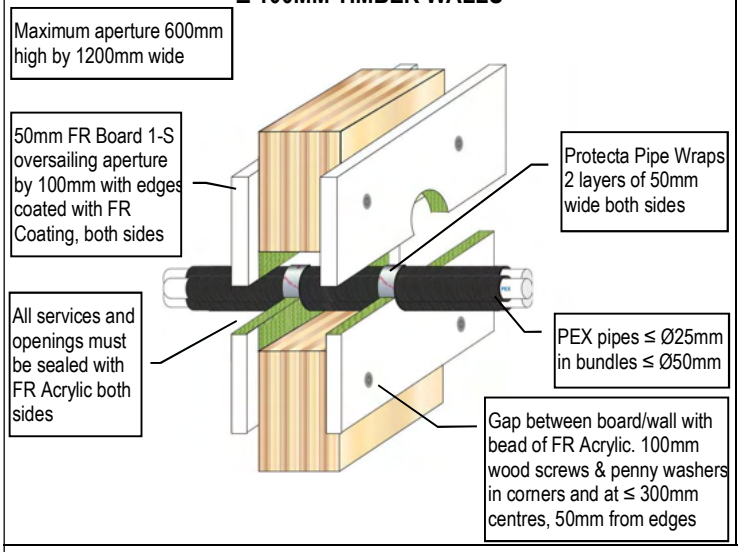
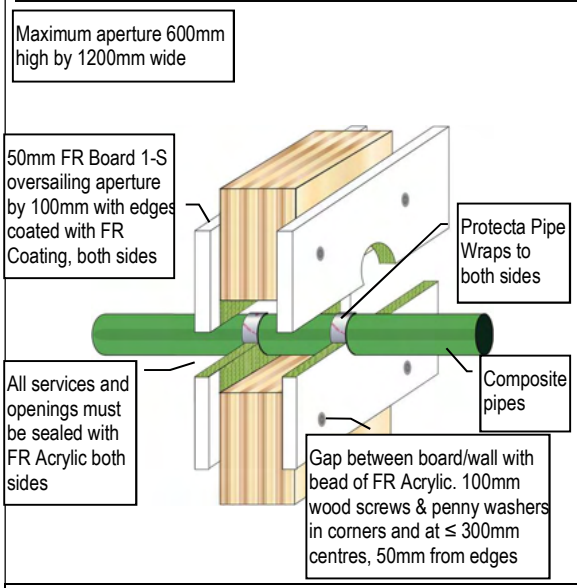
PEX PIPE IN PIPE SYSTEM FIRE RESISTANCE EI 90 C/C (E 90)

≥ 100MM TIMBER WALLS



COMPOSITE AQUATHERM GREEN SDR9 PLASTIC PIPES FIRE RESISTANCE EI 90

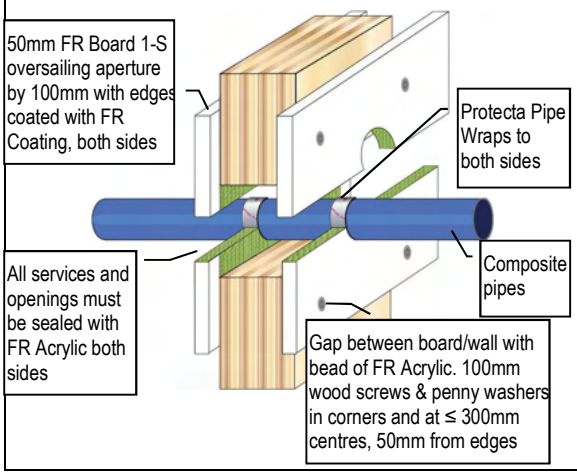
≥ 100MM TIMBER WALLS



Services	FR 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



Services	FR 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)

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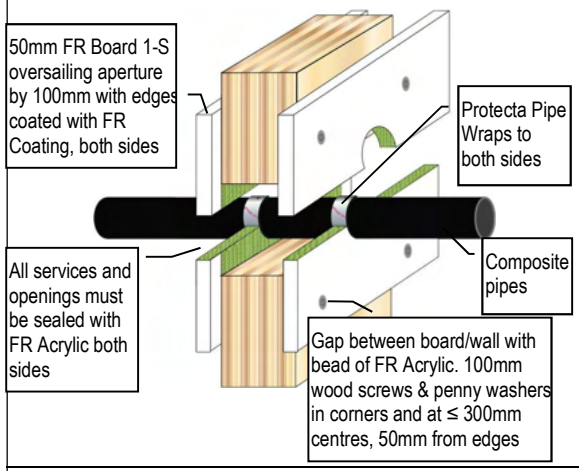
COMPOSITE GEBERIT SILENT-PP PIPES FIRE RESISTANCE EI 90-120

Maximum aperture 600mm high by 1200mm wide

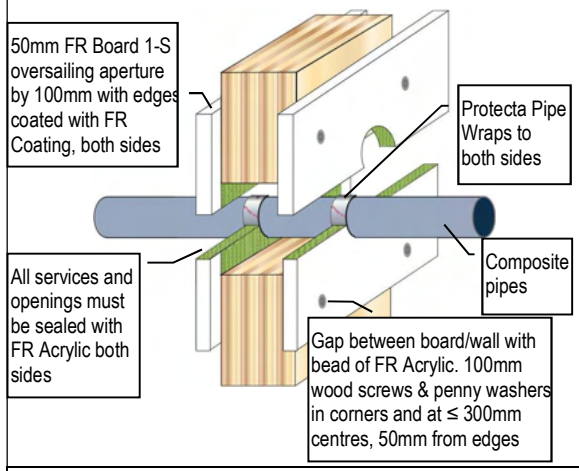


≥ 100MM TIMBER WALLS

Services	FR 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

Maximum aperture 600mm high by 1200mm wide

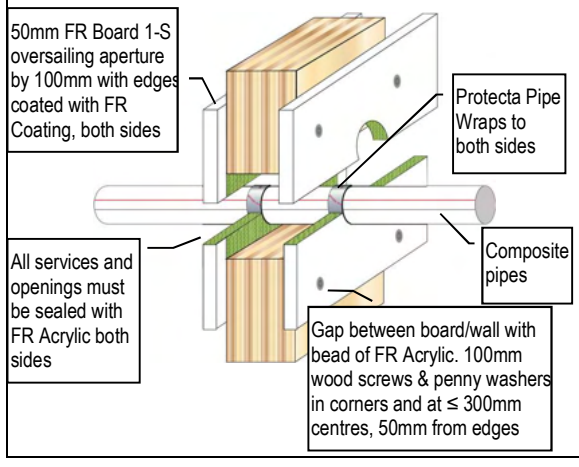


≥ 100MM TIMBER WALLS

Services	FR 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

Maximum aperture 600mm high by 1200mm wide



≥ 100MM TIMBER WALLS

Services	FR 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)

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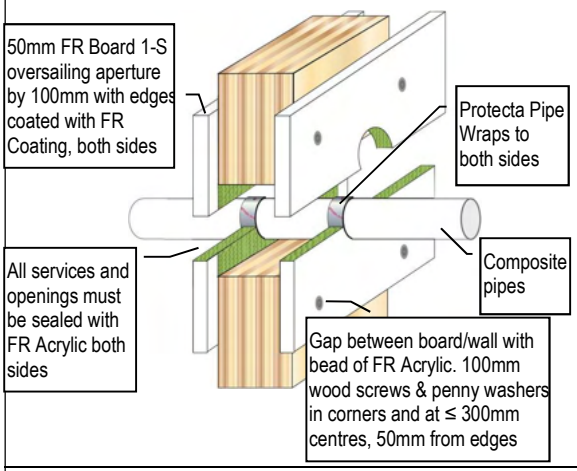
COMPOSITE UPONOR DECIBEL PIPES FIRE RESISTANCE EI 90

Maximum aperture 600mm high by 1200mm wide

≥ 100MM TIMBER WALLS

Services	FR 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)

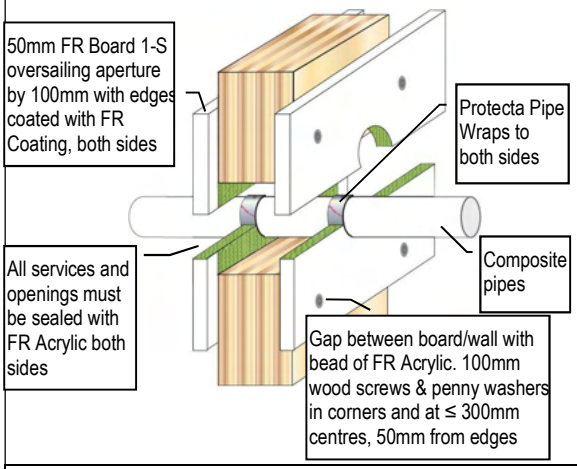


COMPOSITE WAVIN AS+ PLASTIC PIPES FIRE RESISTANCE EI 90

Maximum aperture 600mm high by 1200mm wide

≥ 100MM TIMBER WALLS

Services	FR 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)

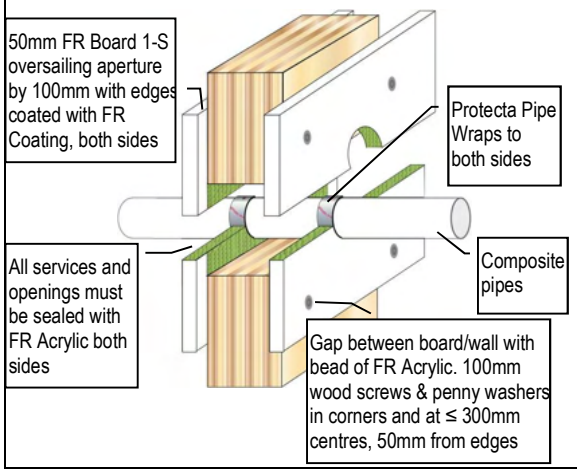


COMPOSITE WAVIN SITECH PLASTIC PIPES FIRE RESISTANCE EI 60-90

Maximum aperture 600mm high by 1200mm wide

≥ 100MM TIMBER WALLS

Services	FR 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)



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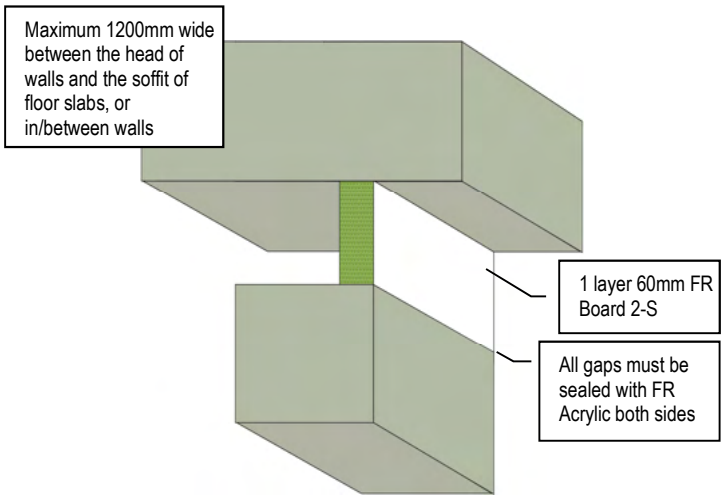
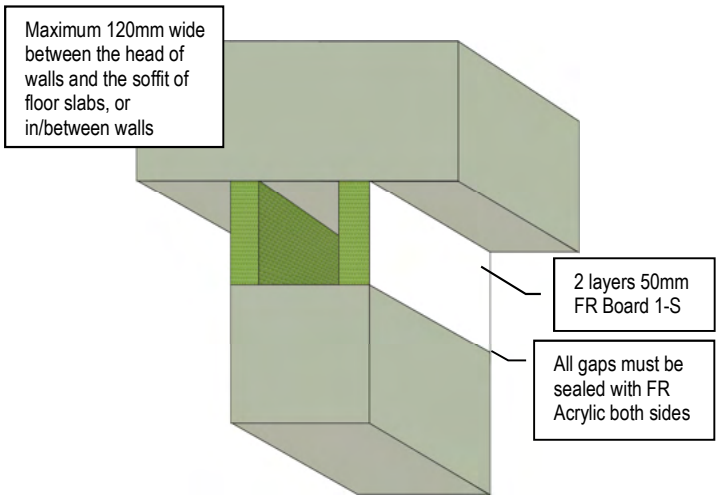
HORIZONTAL SEALS FIRE RESISTANCE EI 90 (E 240)

≥ 150MM RIGID WALLS



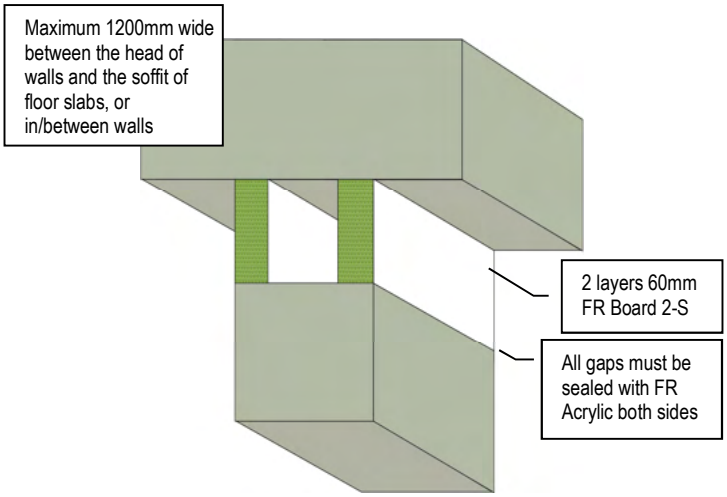
HORIZONTAL SEALS FIRE RESISTANCE EI 180 (E 240)

≥ 150MM RIGID WALLS



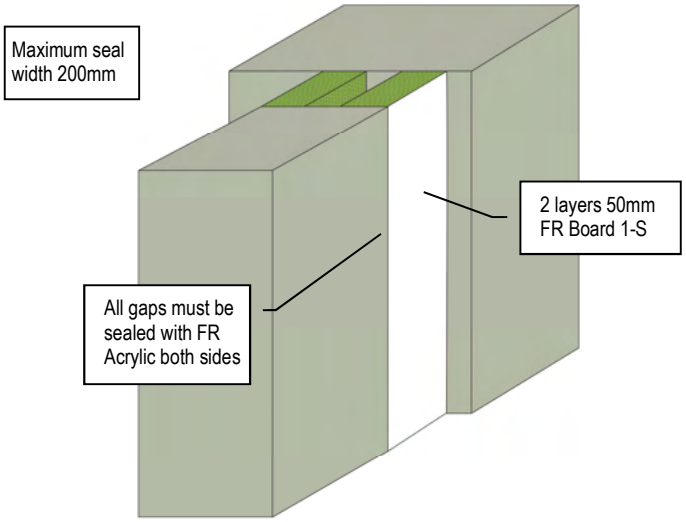
HORIZONTAL SEALS FIRE RESISTANCE EI 180 (E 240)

≥ 150MM RIGID WALLS



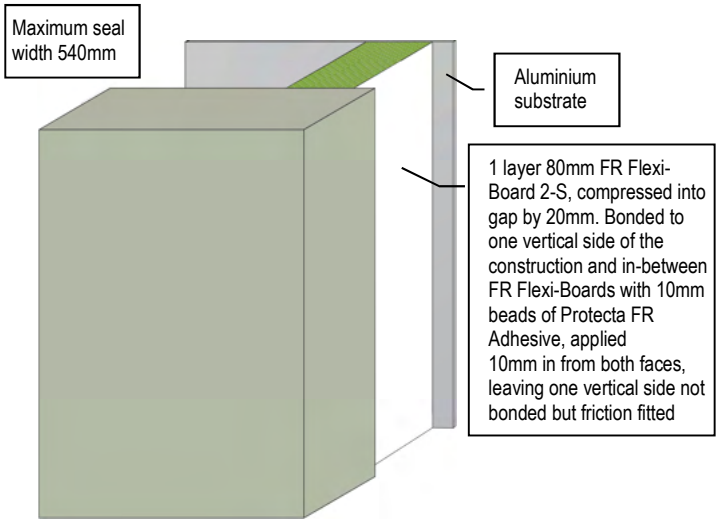
VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 240)

IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS



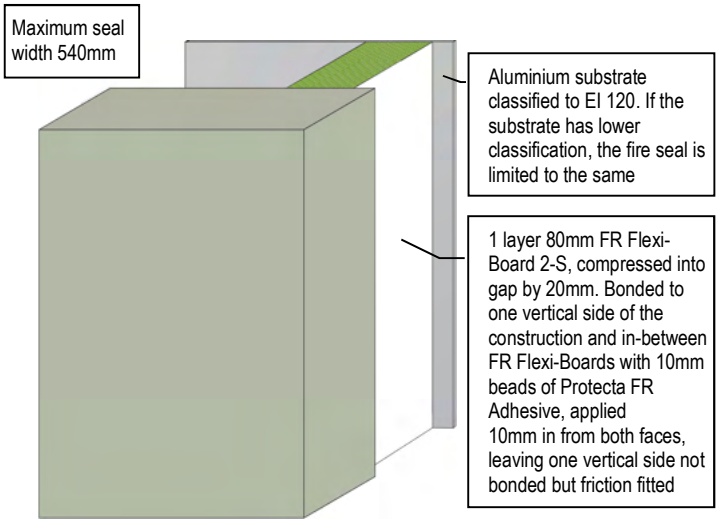
VERTICAL LINEAR SEALS FIRE RESISTANCE EI 30 (E 180)

BETWEEN RIGID WALLS AND ALUMINIUM SUBSTRATES



VERTICAL LINEAR SEALS FIRE RESISTANCE EI 120 (E 180)

BETWEEN RIGID WALLS AND ALUMINIUM SUBSTRATES



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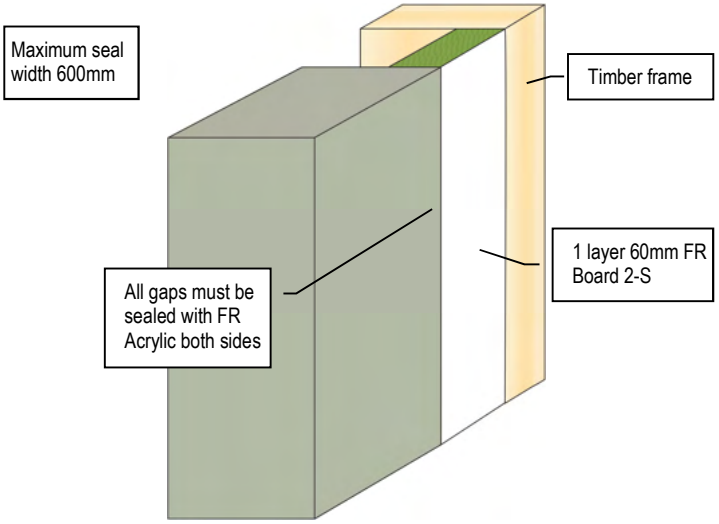
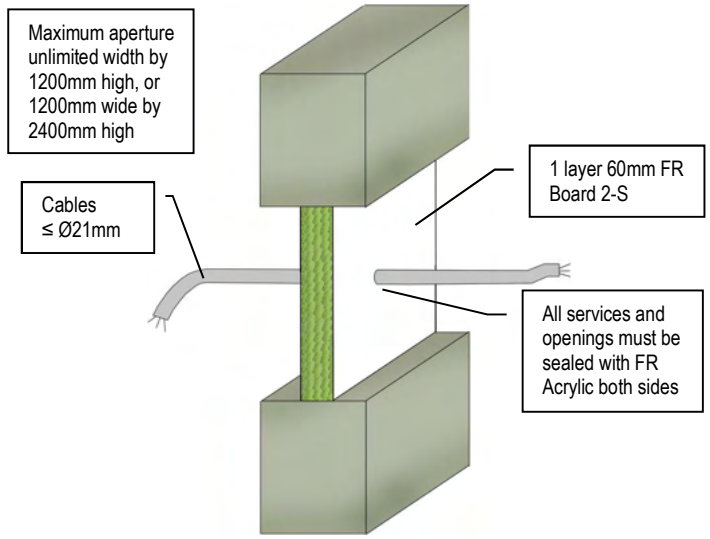
VERTICAL LINEAR SEALS FIRE RESISTANCE EI 60 (E 60)

IN ≥ 150MM RIGID WALLS OR BETWEEN WALLS



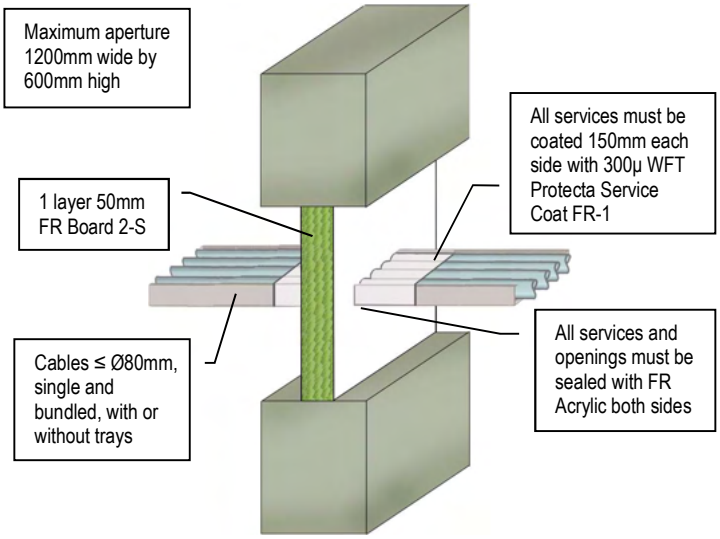
CABLES FIRE RESISTANCE EI 90 (E 120)

≥ 75MM RIGID WALLS



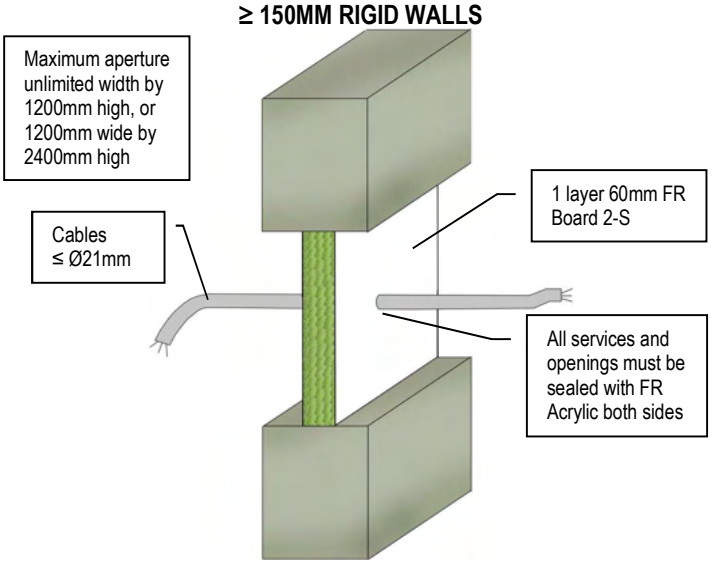
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 60)

≥ 75MM RIGID WALLS



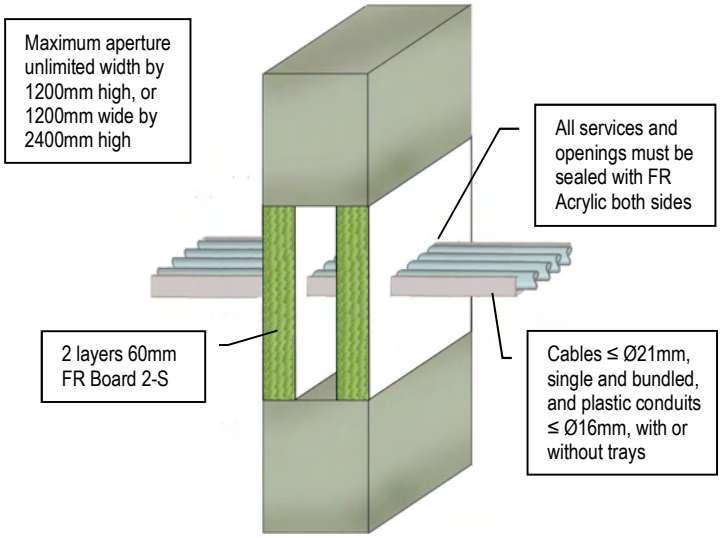
CABLES FIRE RESISTANCE EI 90 (E 240)

≥ 150MM RIGID WALLS



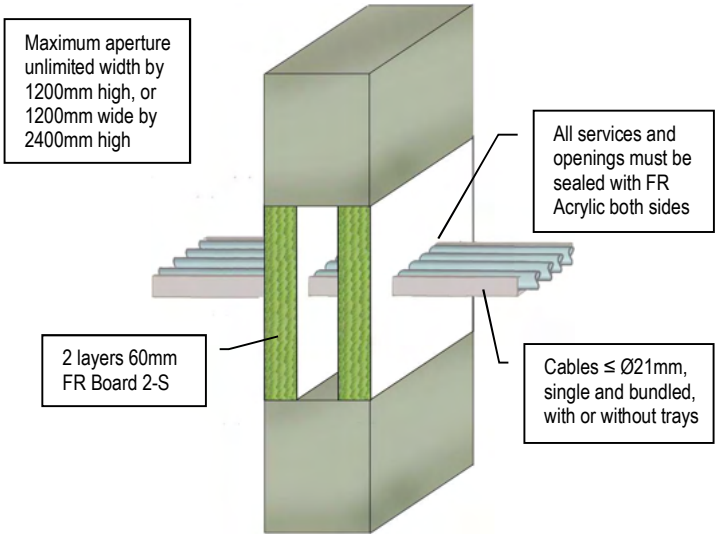
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 180)

≥ 150MM RIGID WALLS



CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 240)

≥ 150MM RIGID WALLS



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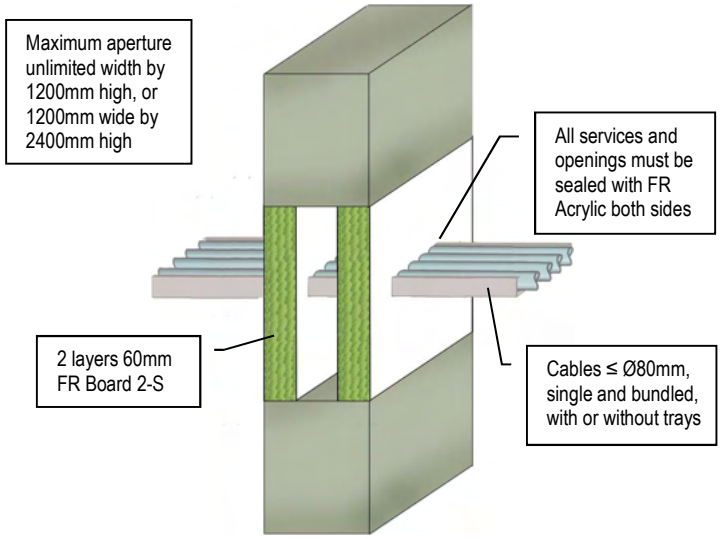
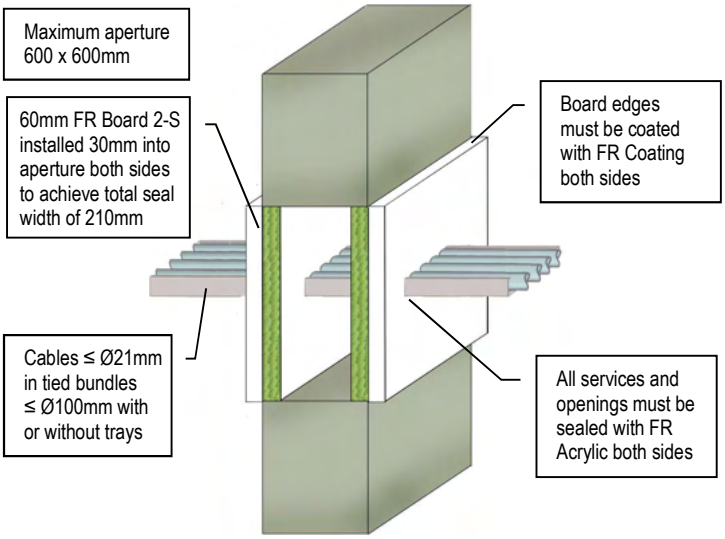
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 180)

≥ 150MM RIGID WALLS



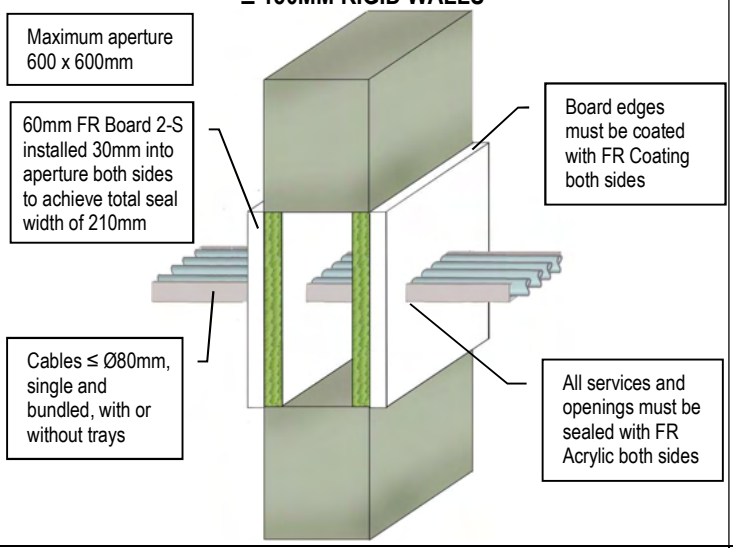
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 240 (E 240)

≥ 150MM RIGID WALLS



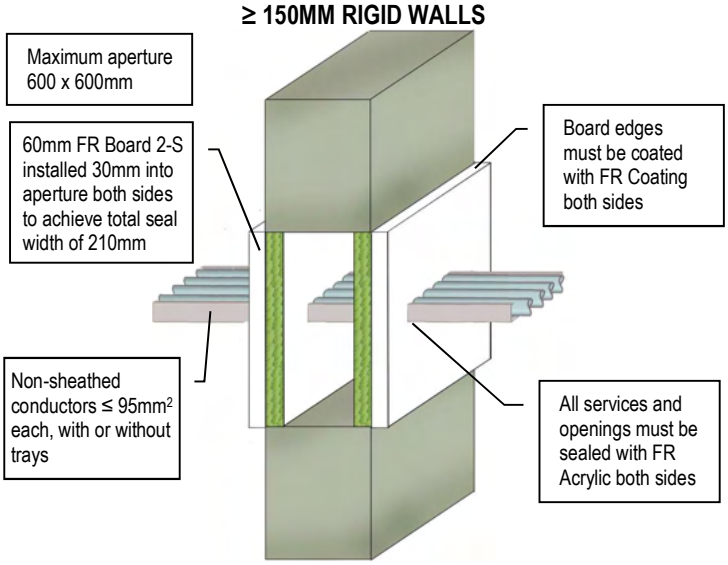
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 240)

≥ 150MM RIGID WALLS



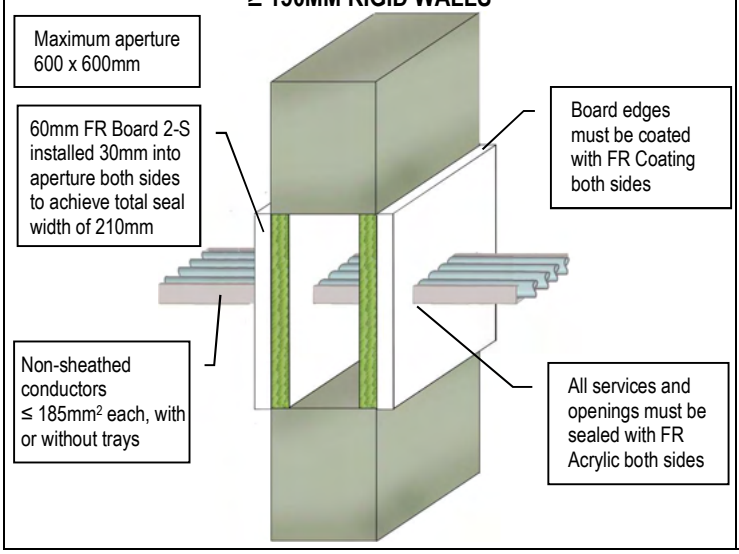
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 180 (E 240)

≥ 150MM RIGID WALLS



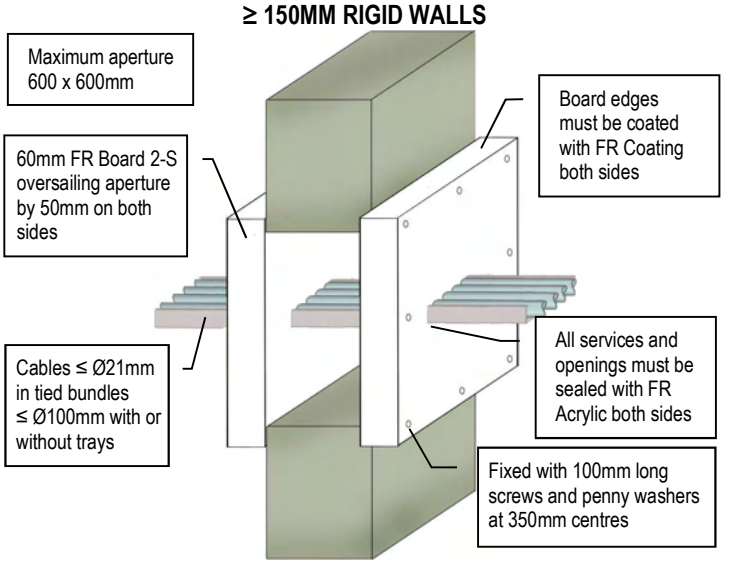
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 240)

≥ 150MM RIGID WALLS



CABLES AND CABLE TRAYS FIRE RESISTANCE EI 240 (E 240)

≥ 150MM RIGID WALLS



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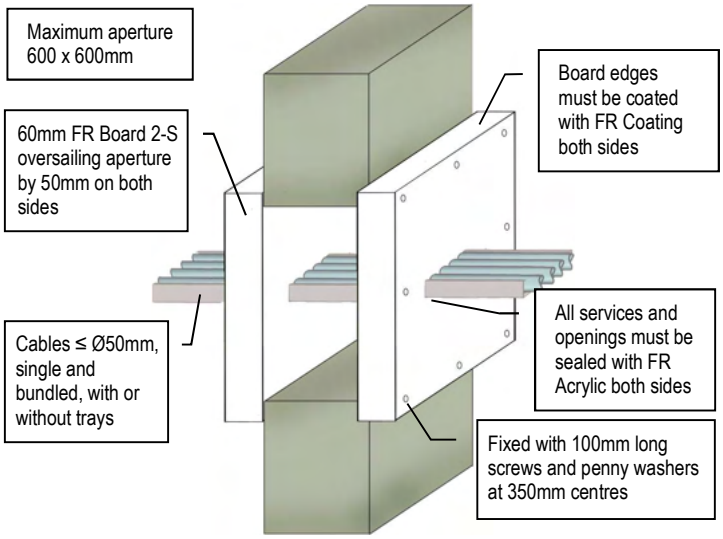
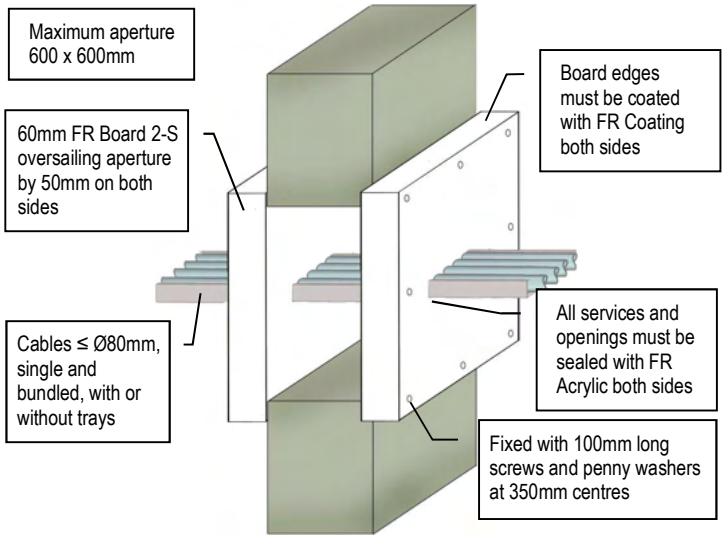
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 240)

≥ 150MM RIGID WALLS



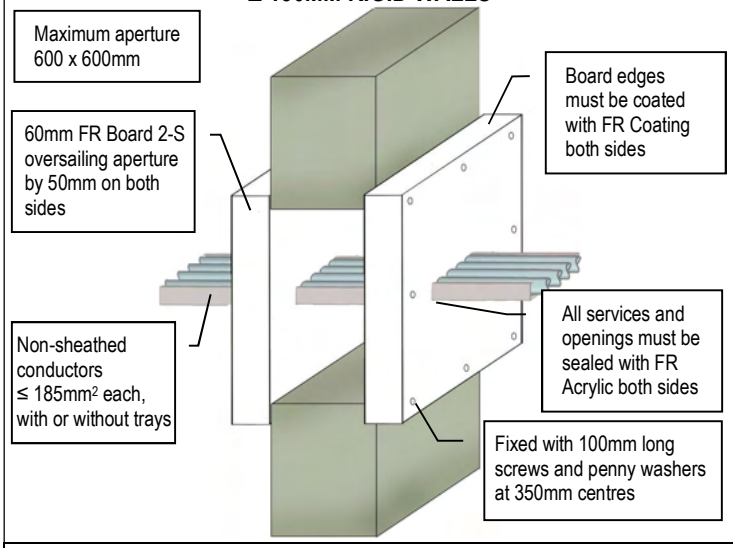
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 240)

≥ 150MM RIGID WALLS



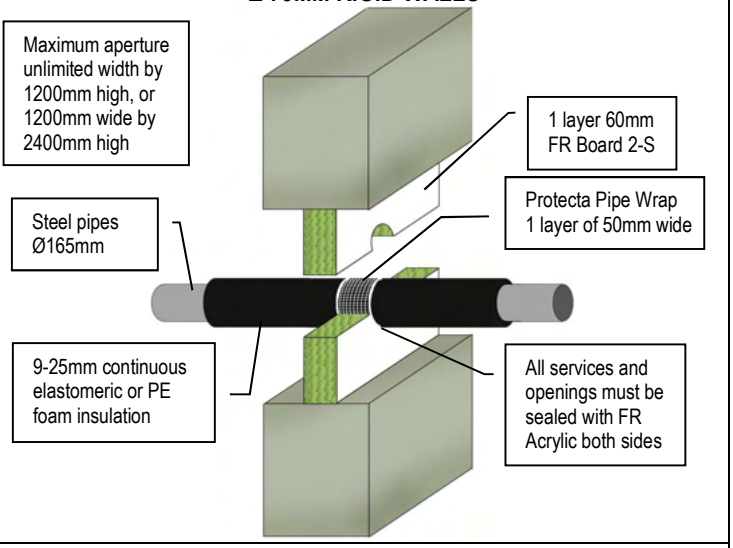
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 120 (E 240)

≥ 150MM RIGID WALLS



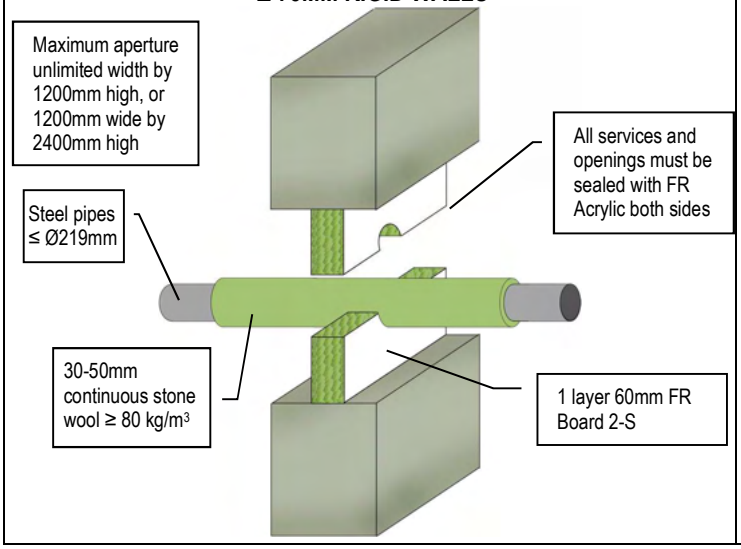
INSULATED STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 120)

≥ 75MM RIGID WALLS



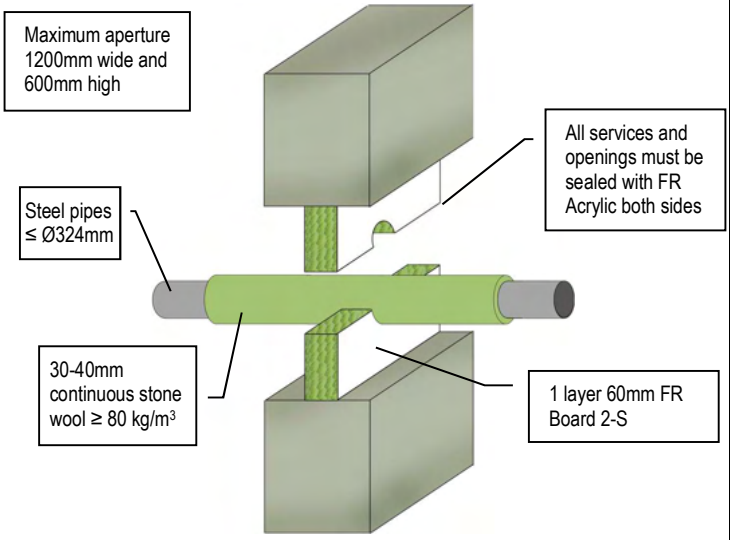
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

≥ 75MM RIGID WALLS



INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 75MM RIGID WALLS



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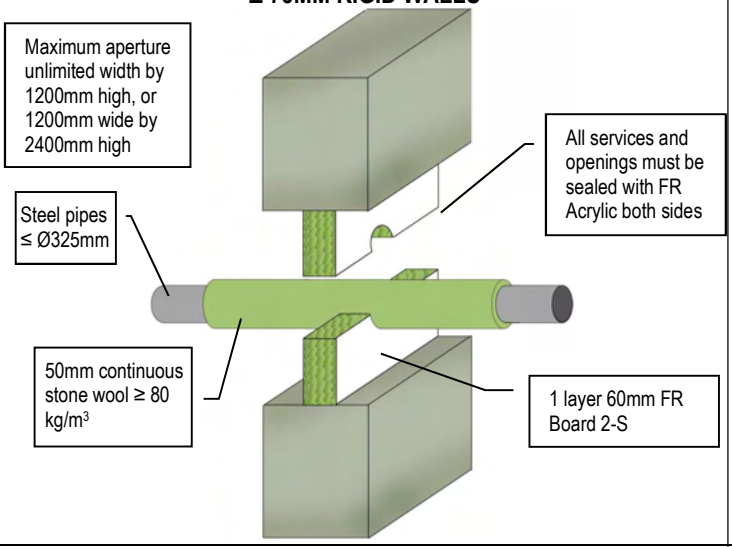
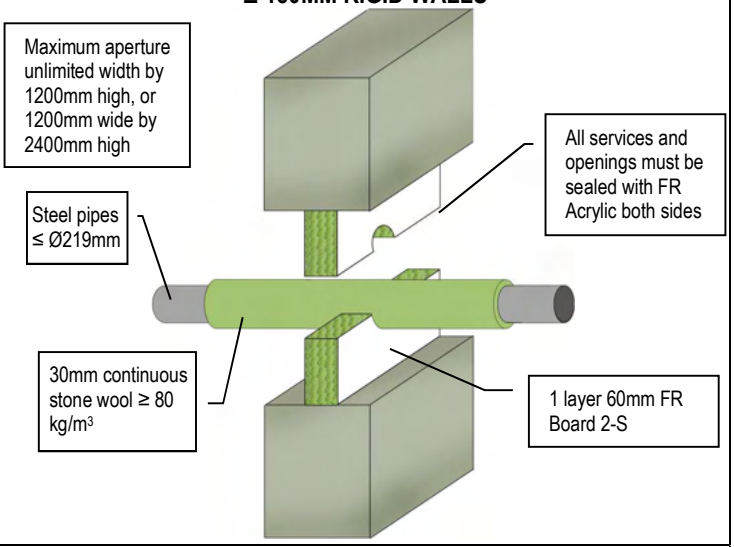
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

≥ 75MM RIGID WALLS



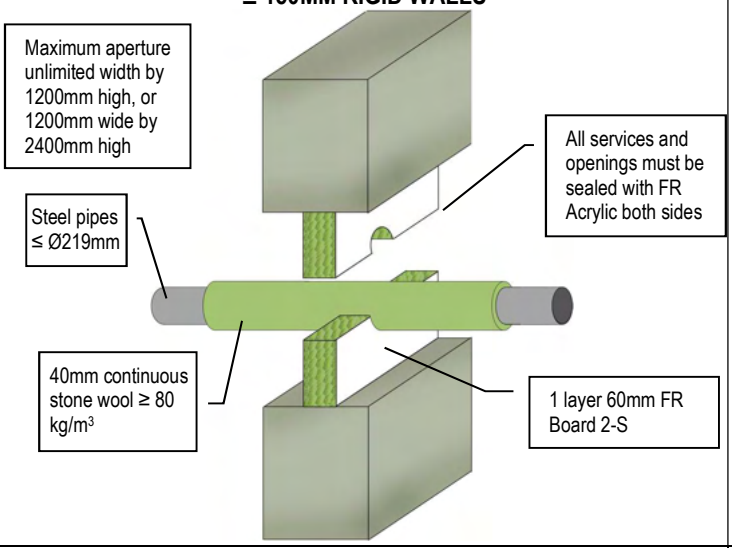
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 240)

≥ 150MM RIGID WALLS



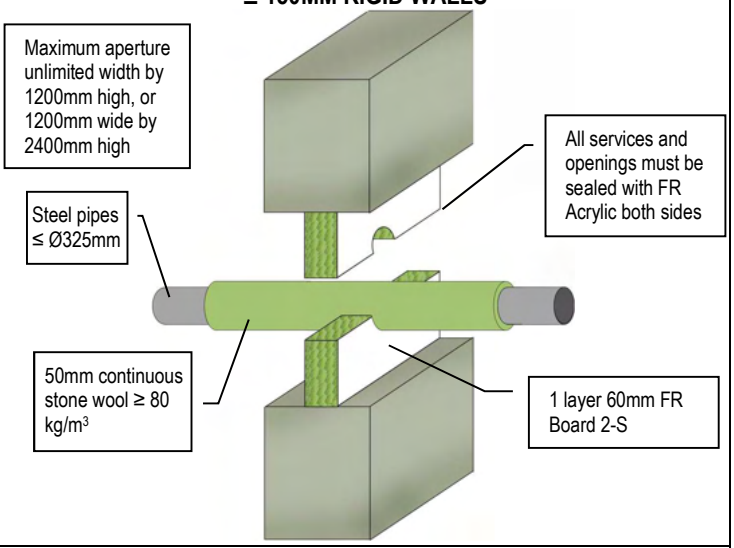
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 180)

≥ 150MM RIGID WALLS



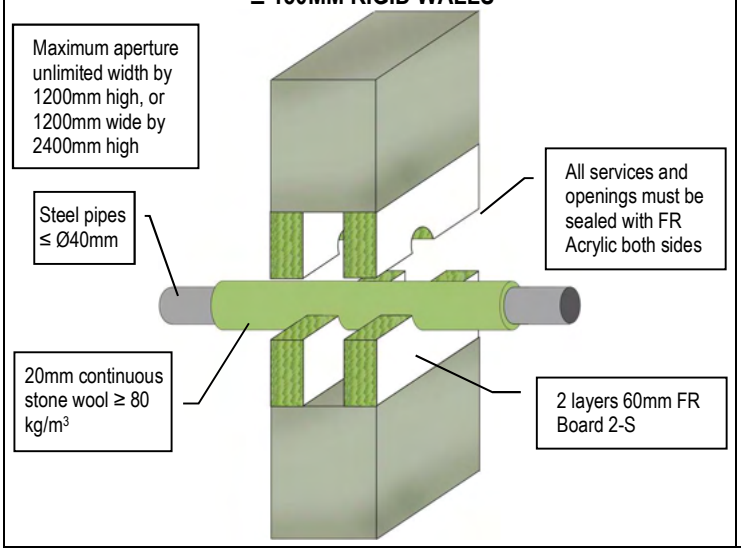
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 180)

≥ 150MM RIGID WALLS



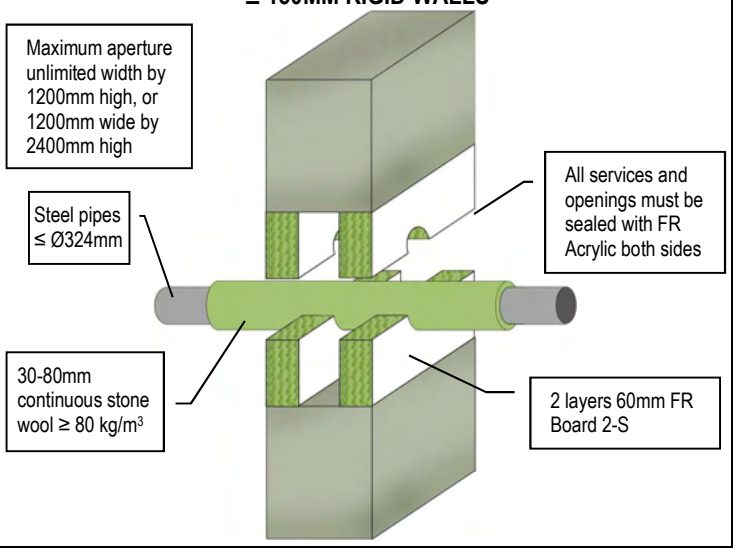
INSULATED STEEL PIPES FIRE RESISTANCE EI 180 C/U (E 240)

≥ 150MM RIGID WALLS



INSULATED STEEL PIPES FIRE RESISTANCE EI 180 C/U (E 240)

≥ 150MM RIGID WALLS



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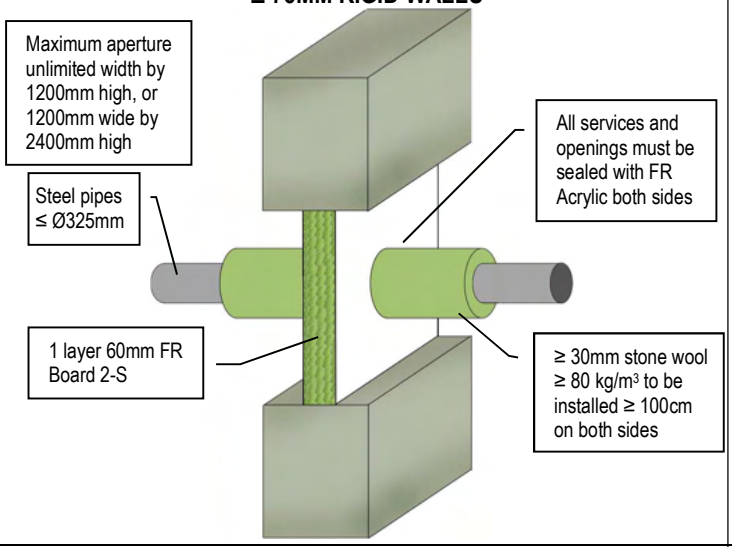
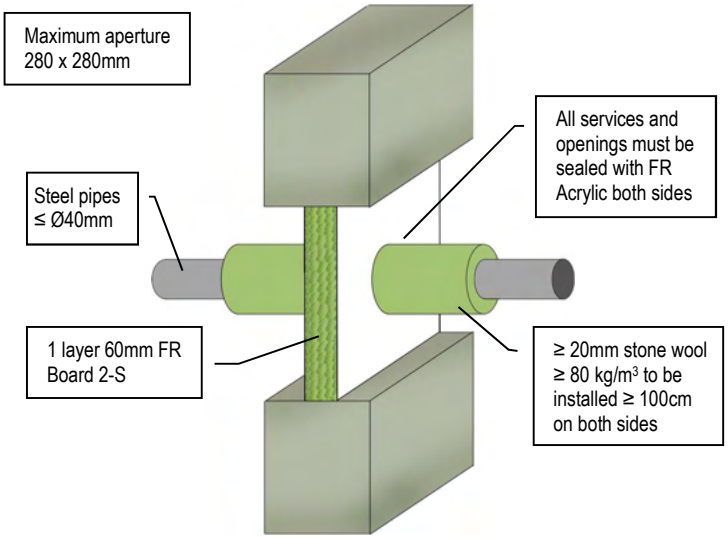
STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 75MM RIGID WALLS



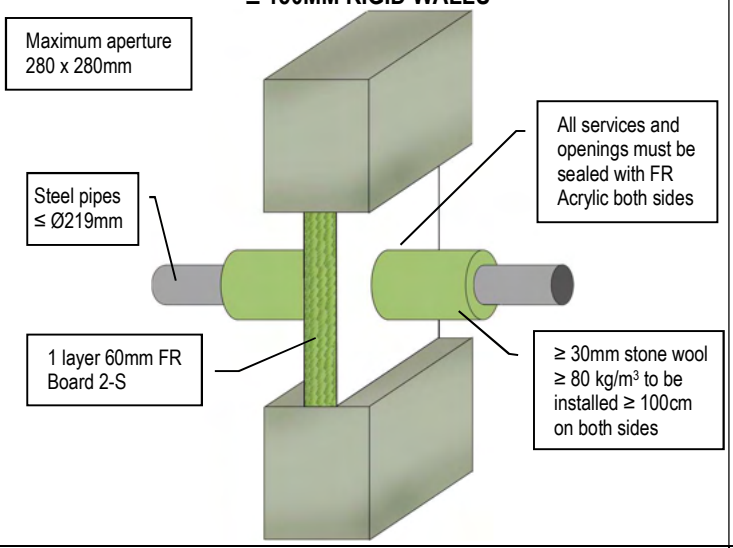
STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS



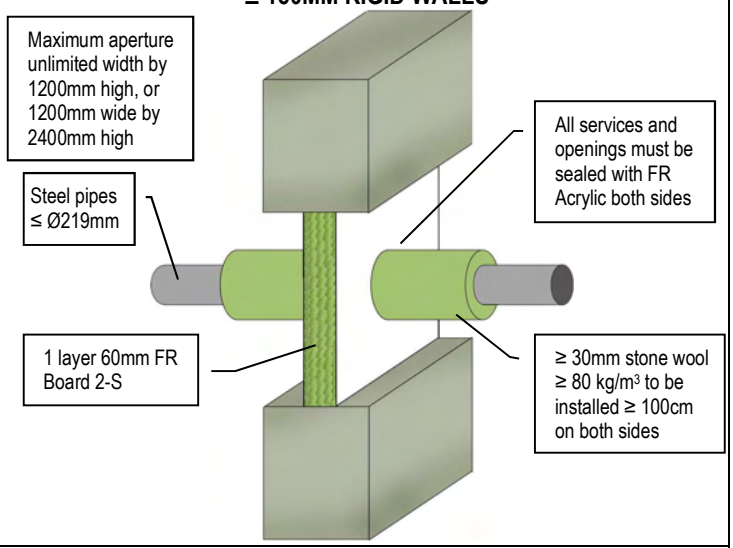
STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS



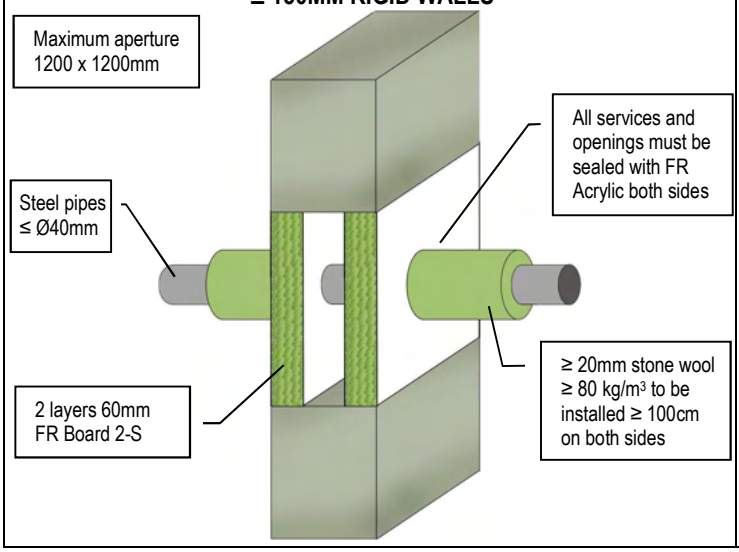
STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 240)

≥ 150MM RIGID WALLS



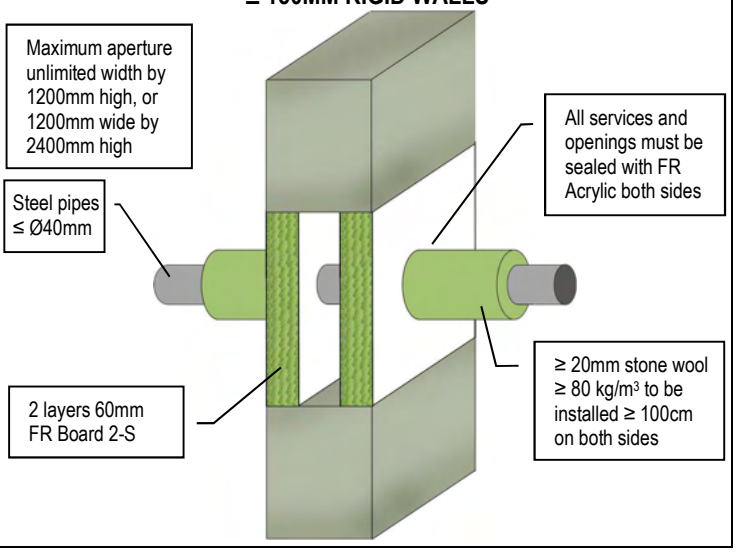
STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS



STEEL PIPES FIRE RESISTANCE EI 180 C/U (E 240)

≥ 150MM RIGID WALLS



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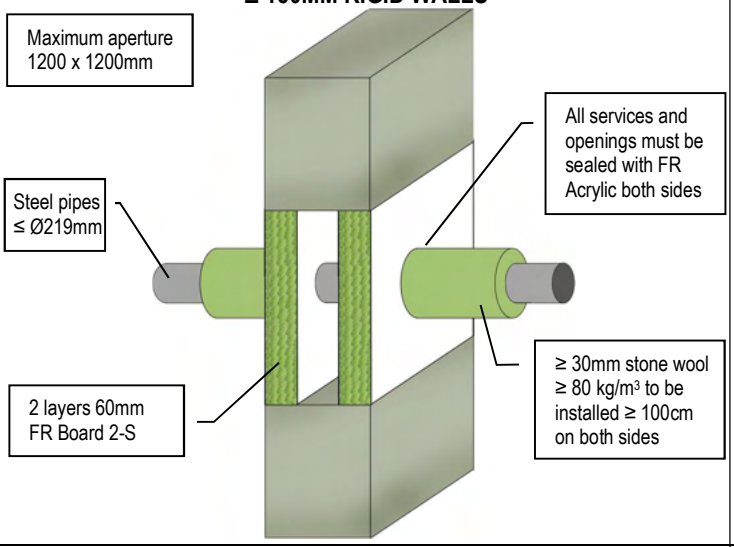
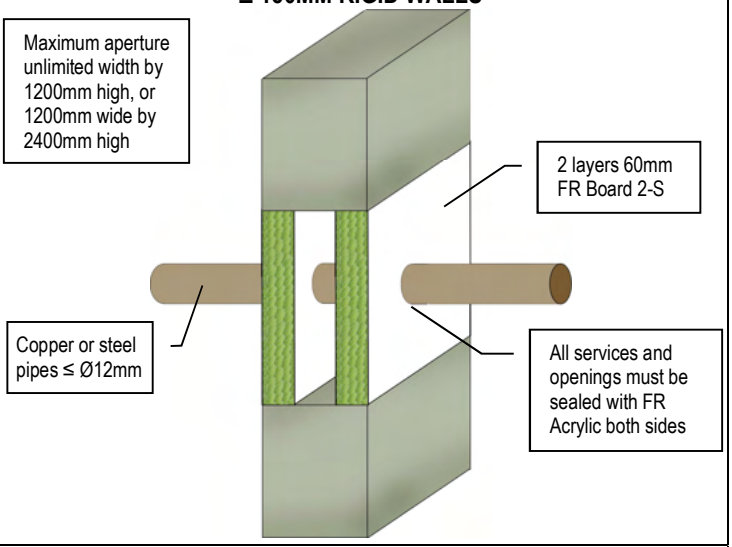
STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS



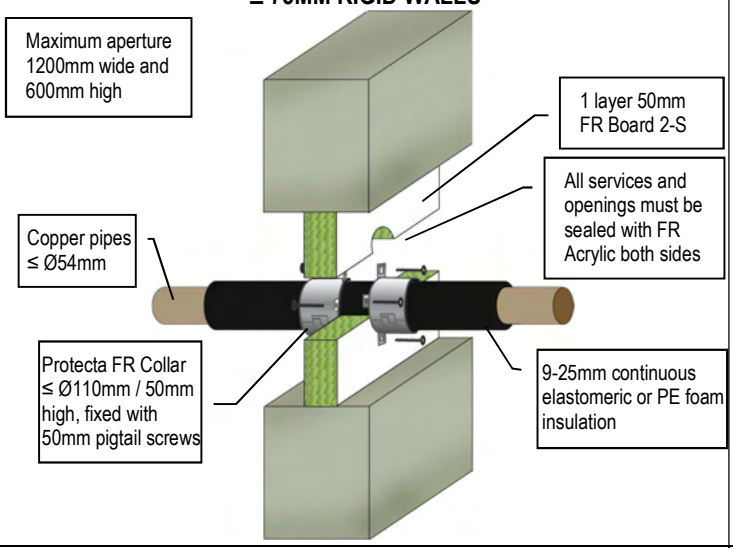
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 120)

≥ 150MM RIGID WALLS



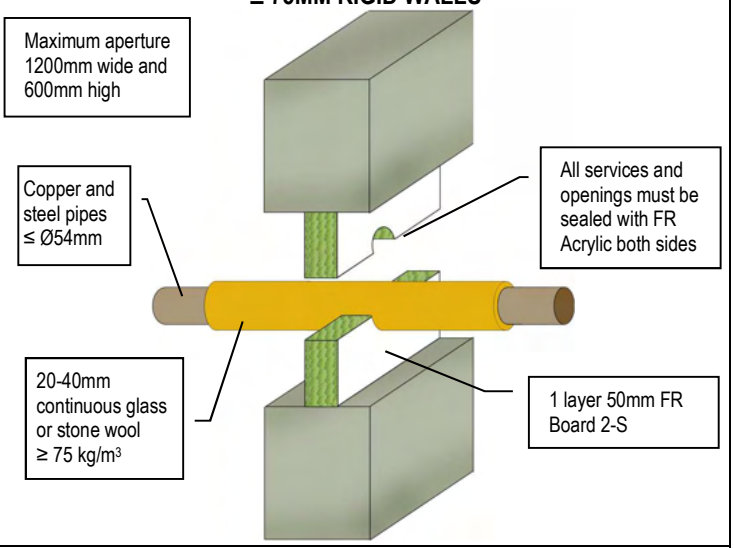
COPPER PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 75MM RIGID WALLS



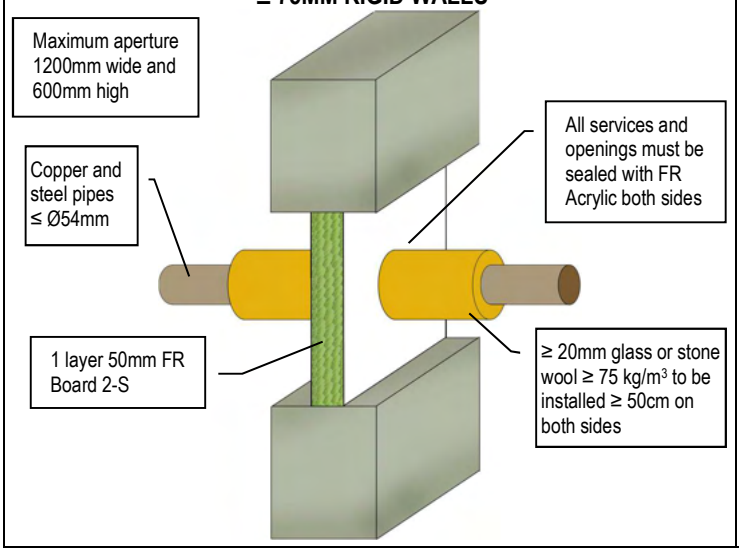
COPPER & STEEL PIPES FIRE RESISTANCE EI 30 C/C (E 60)

≥ 75MM RIGID WALLS



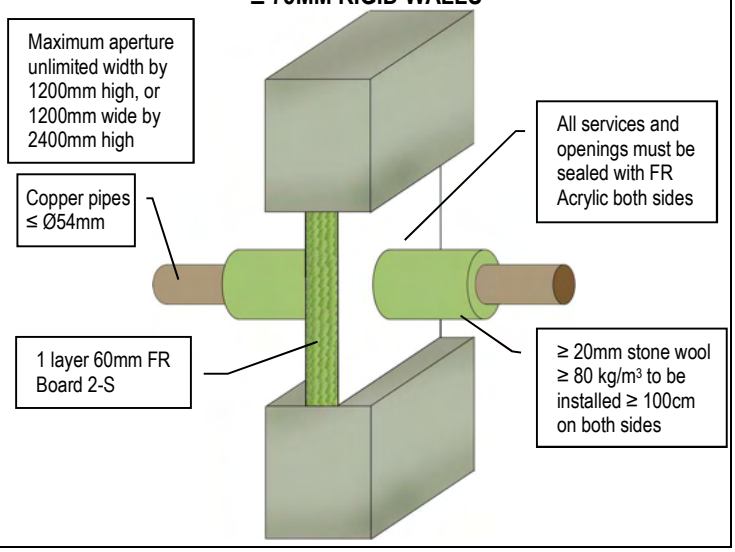
COPPER & STEEL PIPES FIRE RESISTANCE EI 45 C/C (E 60)

≥ 75MM RIGID WALLS



COPPER PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 75MM RIGID WALLS



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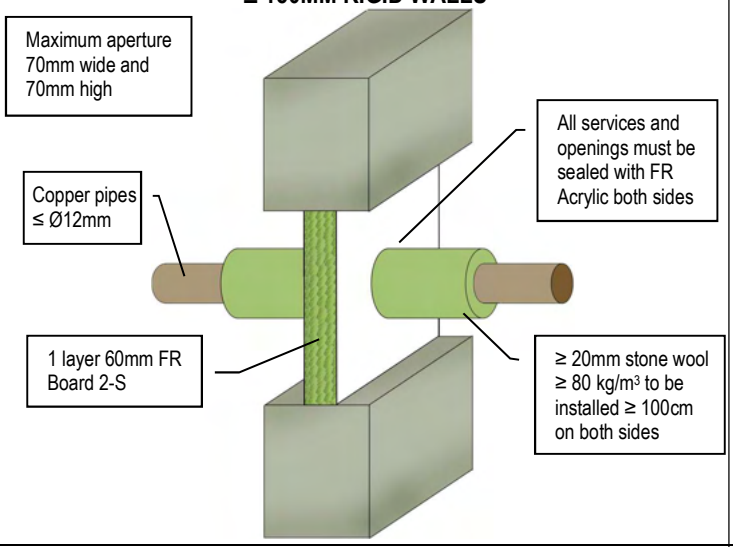
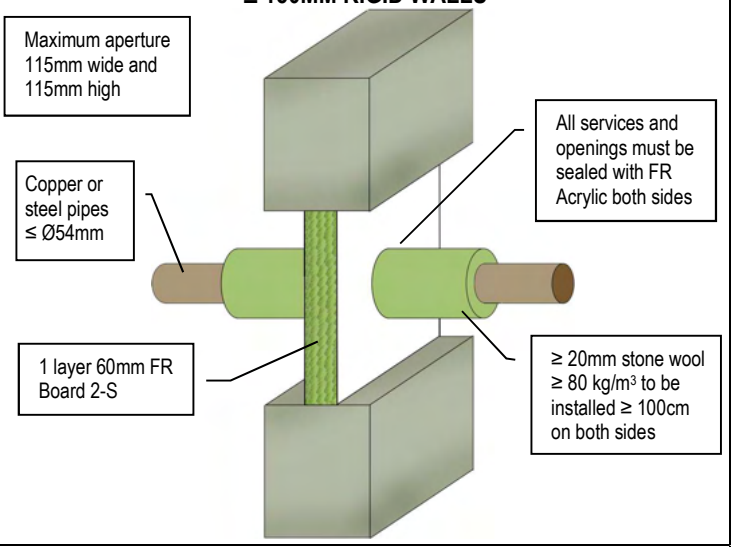
COPPER PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID WALLS



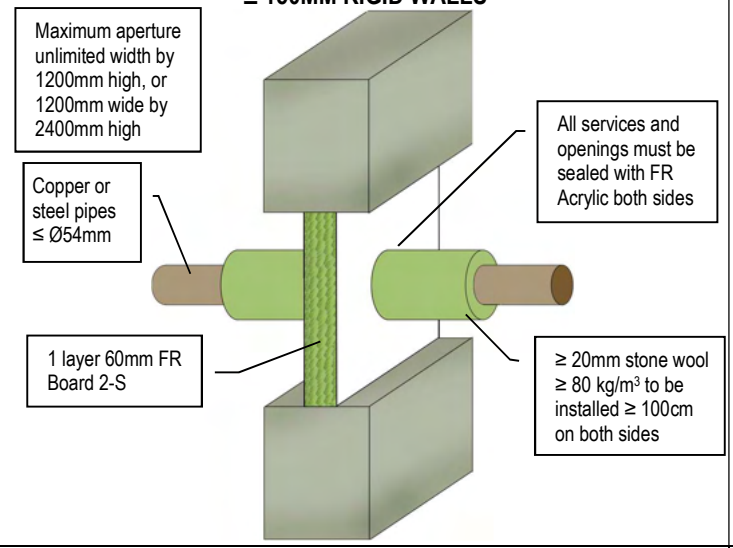
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 240)

≥ 150MM RIGID WALLS



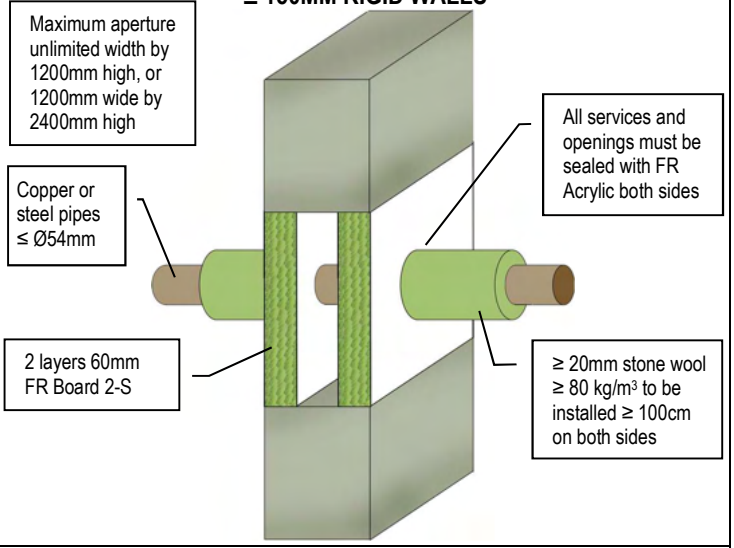
COPPER OR STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 240)

≥ 150MM RIGID WALLS



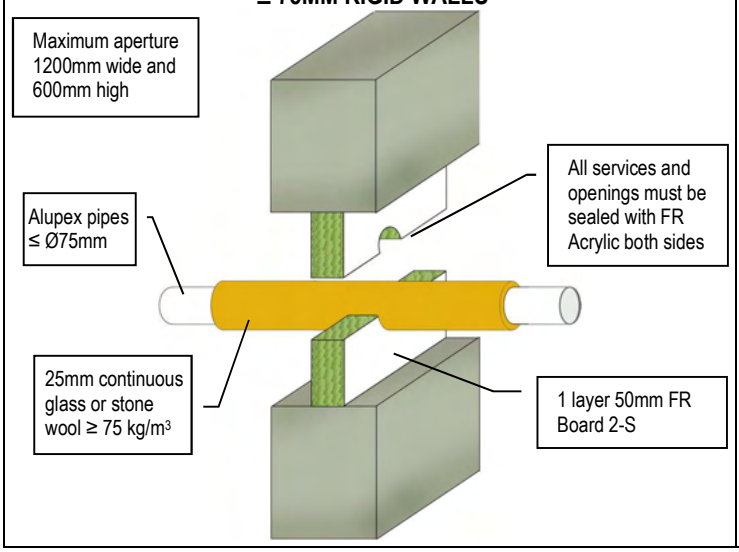
COPPER OR STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 240)

≥ 150MM RIGID WALLS



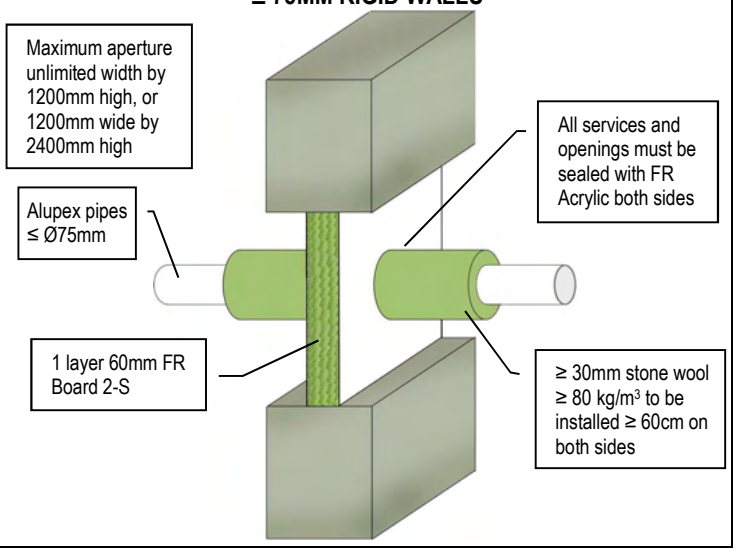
INSULATED ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 60)

≥ 75MM RIGID WALLS



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

≥ 75MM RIGID WALLS



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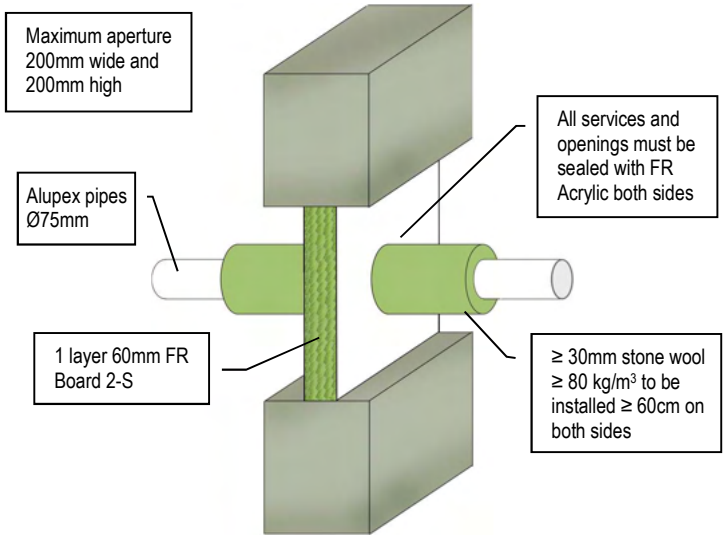
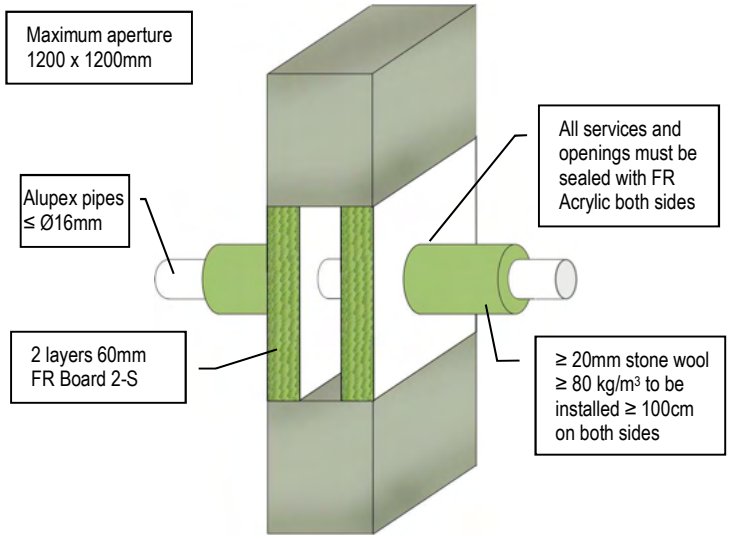
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 150MM RIGID WALLS



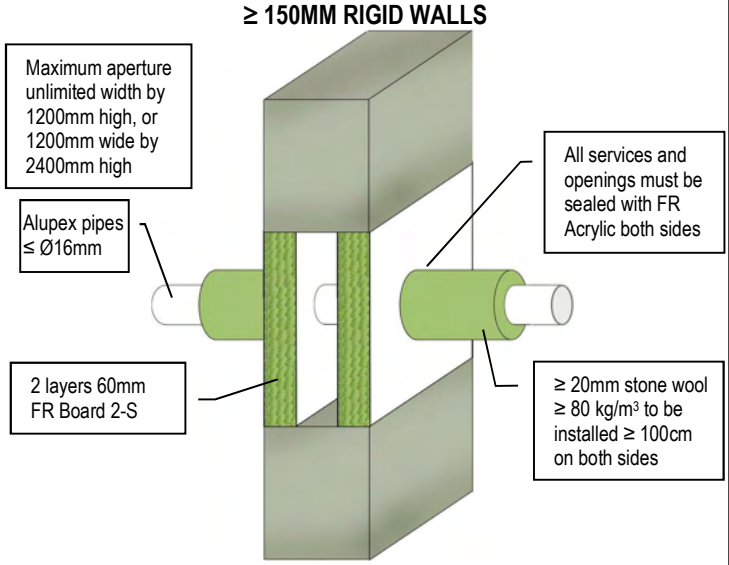
ALUPEX PIPES FIRE RESISTANCE EI 240 U/C (E 240)

≥ 150MM RIGID WALLS



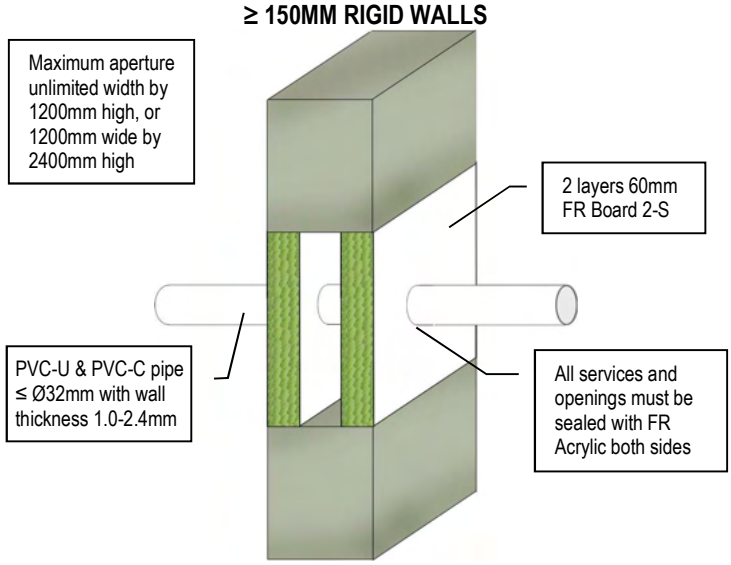
ALUPEX PIPES FIRE RESISTANCE EI 180 U/C (E 240)

≥ 150MM RIGID WALLS



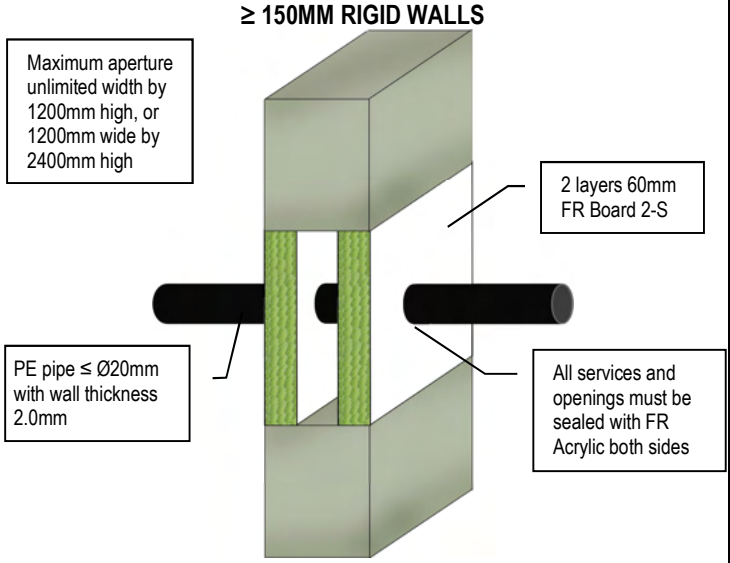
PVC PIPES FIRE RESISTANCE EI 240 U/C (E 240)

≥ 150MM RIGID WALLS



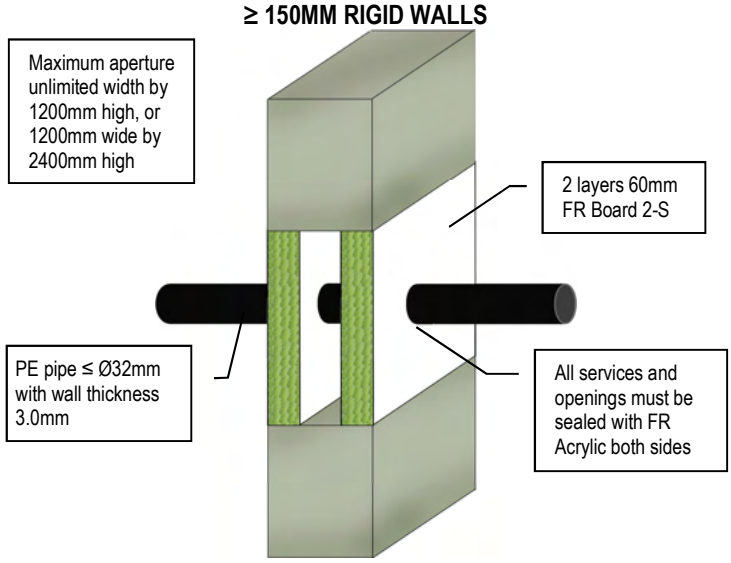
PE PIPES FIRE RESISTANCE EI 120 U/C (E 120)

≥ 150MM RIGID WALLS



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

≥ 150MM RIGID WALLS



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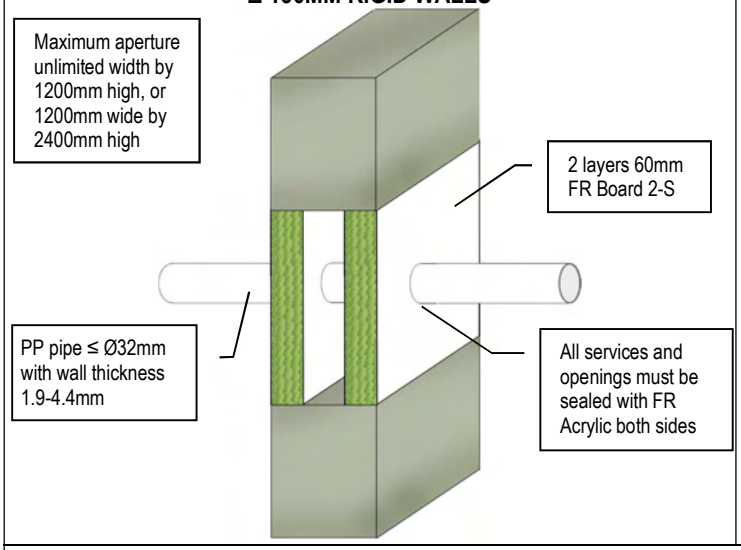
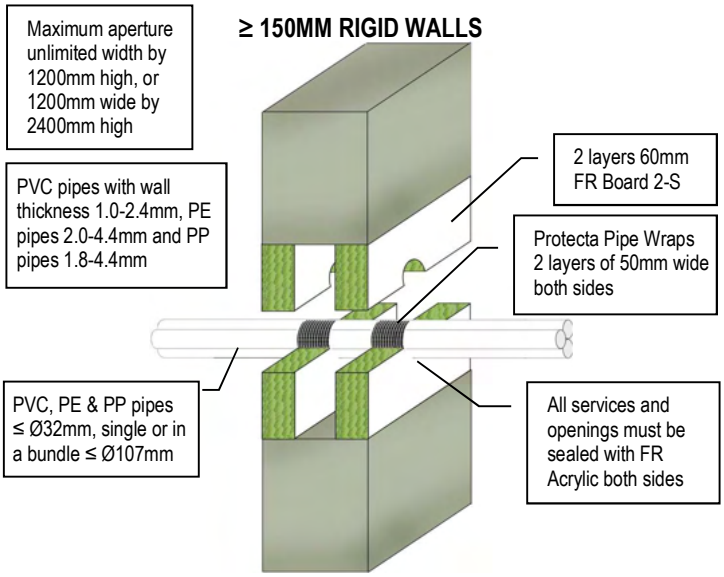
PP PIPES FIRE RESISTANCE EI 60 U/C (E 60)

≥ 150MM RIGID WALLS

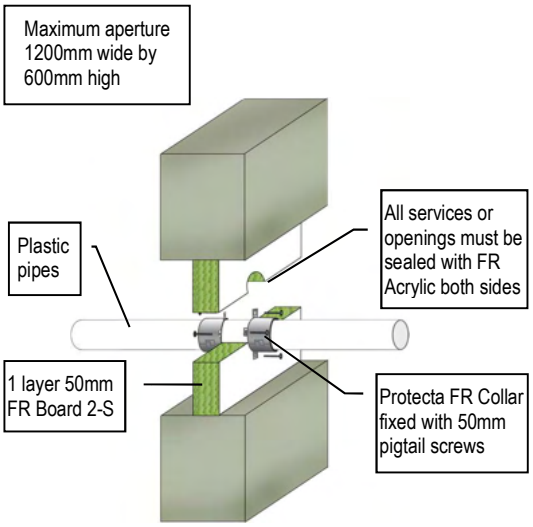


PLASTIC PIPE BUNDLES FIRE RESISTANCE EI 240 U/C (E 240)

≥ 150MM RIGID WALLS



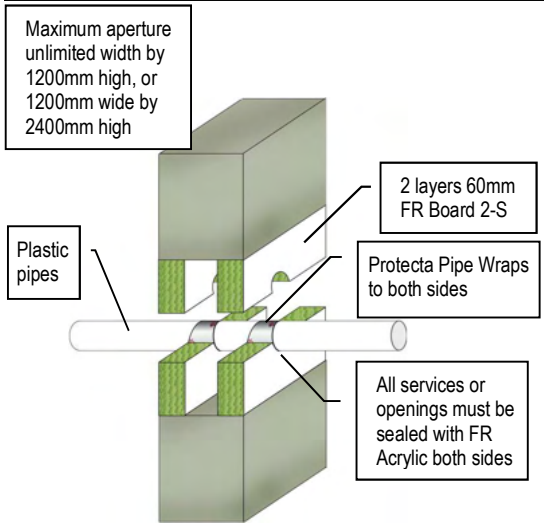
PLASTIC PIPES FIRE RESISTANCE EI 30-60



≥ 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	FR 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)

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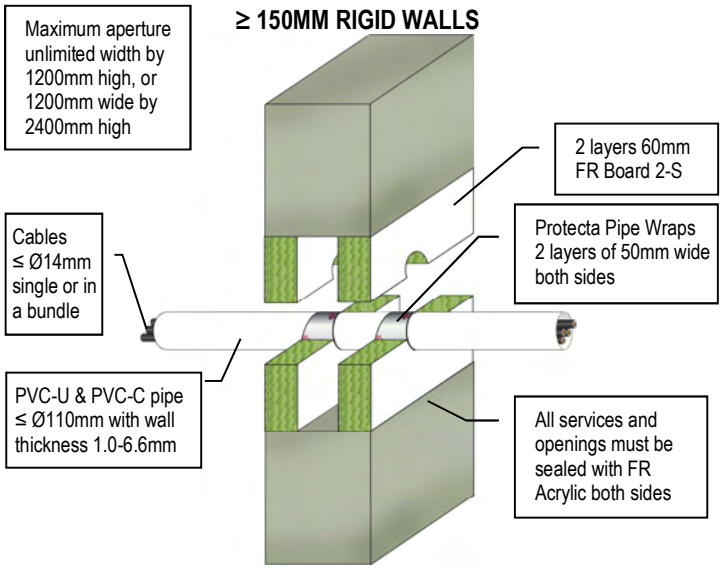
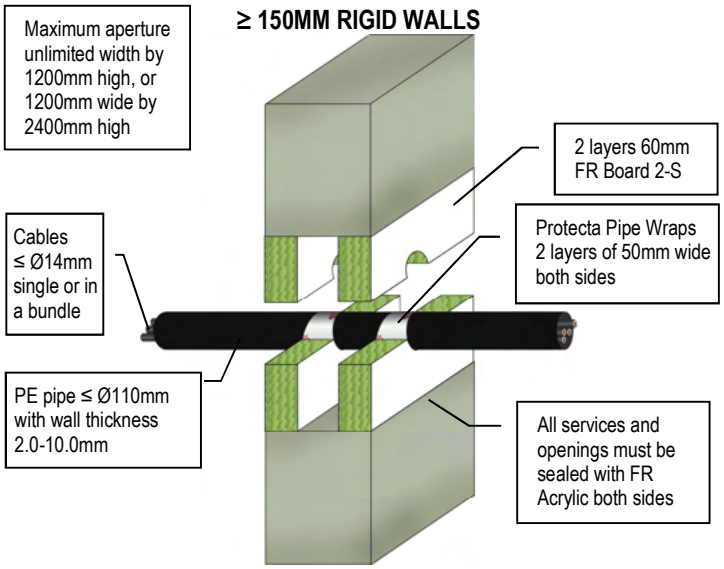
PVC CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

≥ 150MM RIGID WALLS



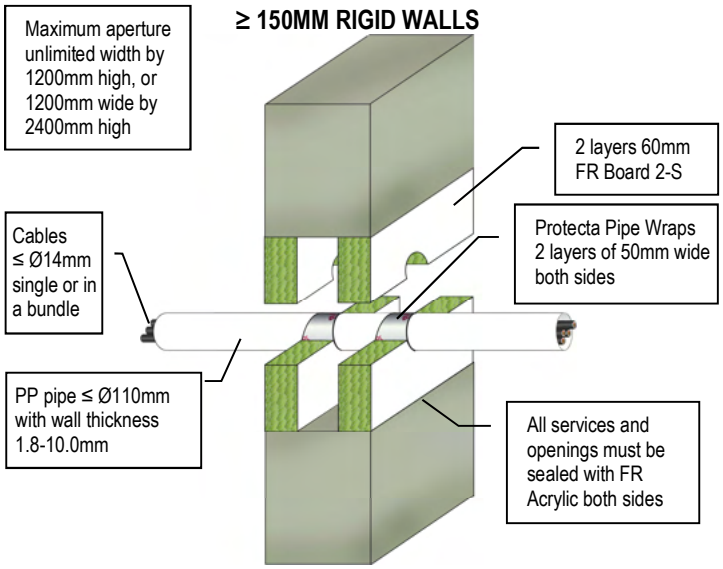
PE CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

≥ 150MM RIGID WALLS



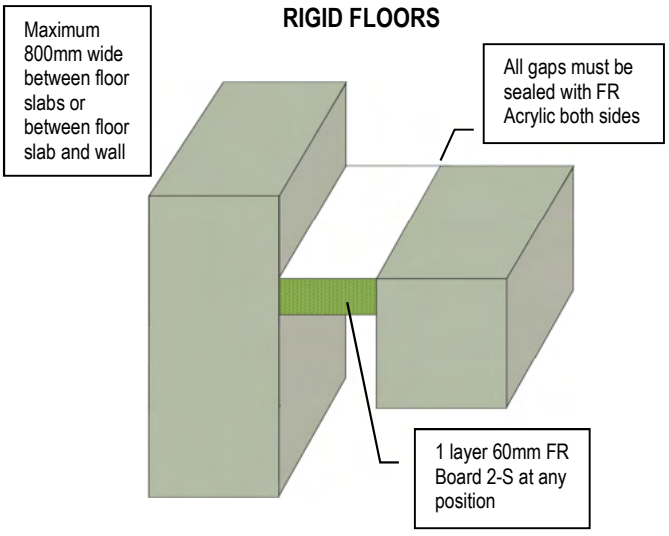
PP CONDUITS FIRE RESISTANCE EI 120 U/C (E 120)

≥ 150MM RIGID WALLS



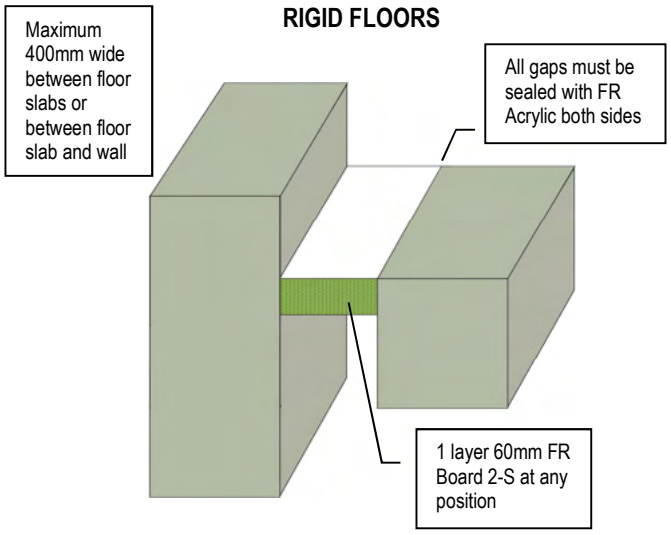
LINEAR SEALS FIRE RESISTANCE EI 90 (E 120)

RIGID FLOORS



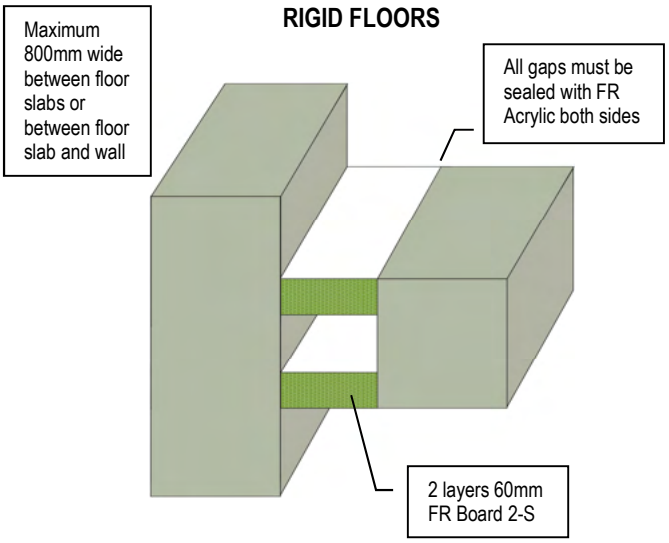
LINEAR SEALS FIRE RESISTANCE EI 120 (E 240)

RIGID FLOORS



LINEAR SEALS FIRE RESISTANCE EI 120 (E 180)

RIGID FLOORS



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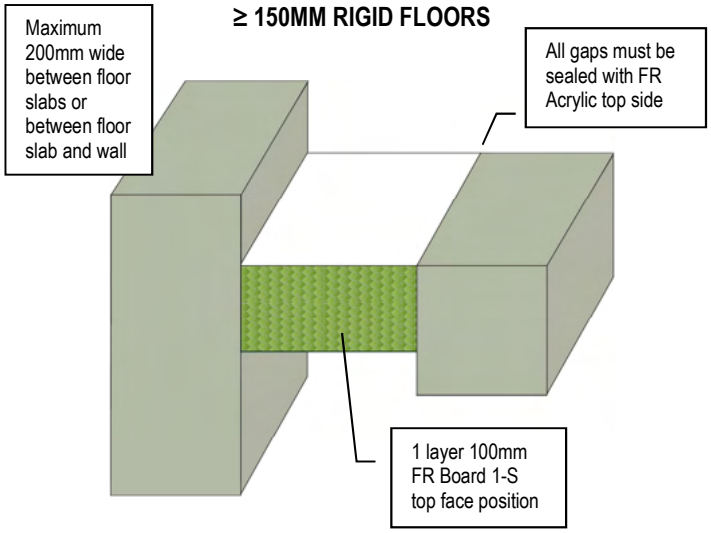
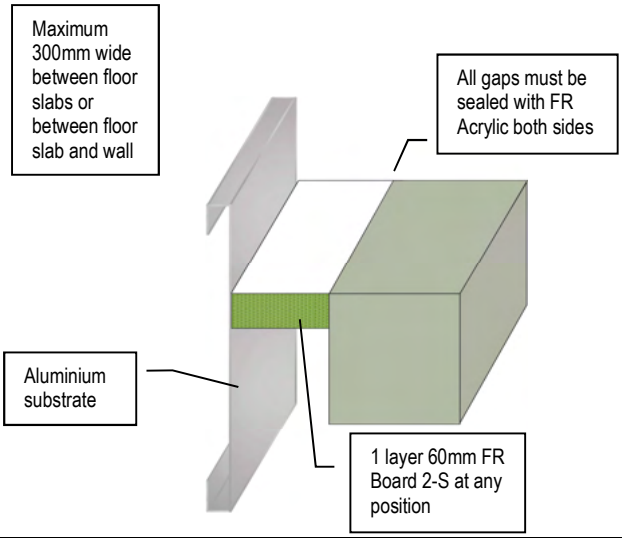
LINEAR SEALS FIRE RESISTANCE EI 240 (E 240)

≥ 150MM RIGID FLOORS



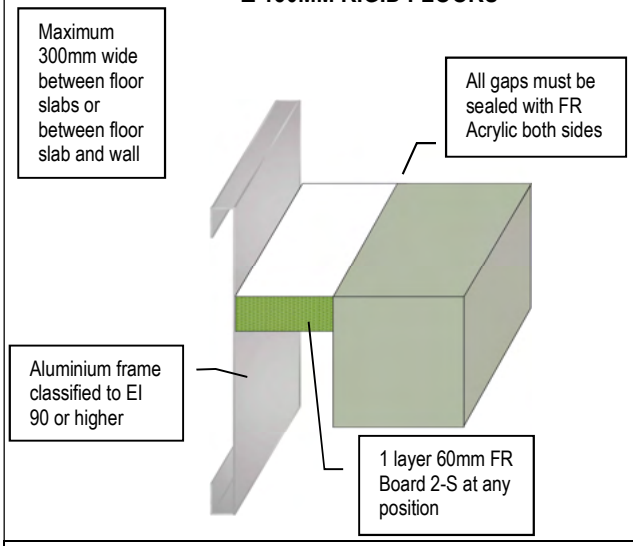
LINEAR SEALS FIRE RESISTANCE EI 60 (E 120)

≥ 150MM RIGID FLOORS



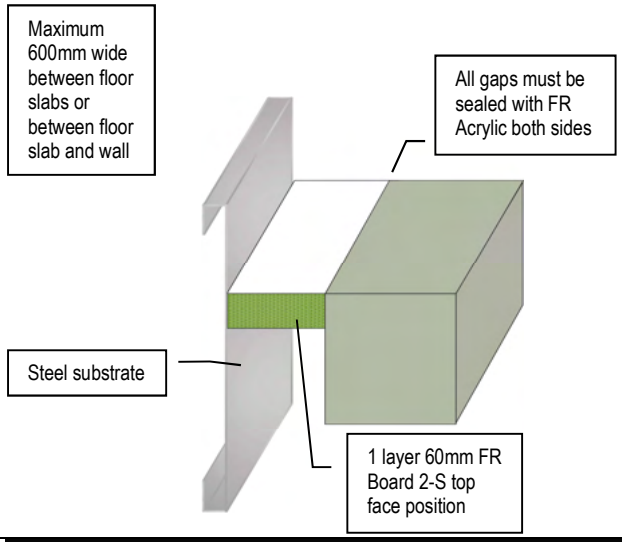
LINEAR SEALS FIRE RESISTANCE EI 90 (E 120)

≥ 150MM RIGID FLOORS



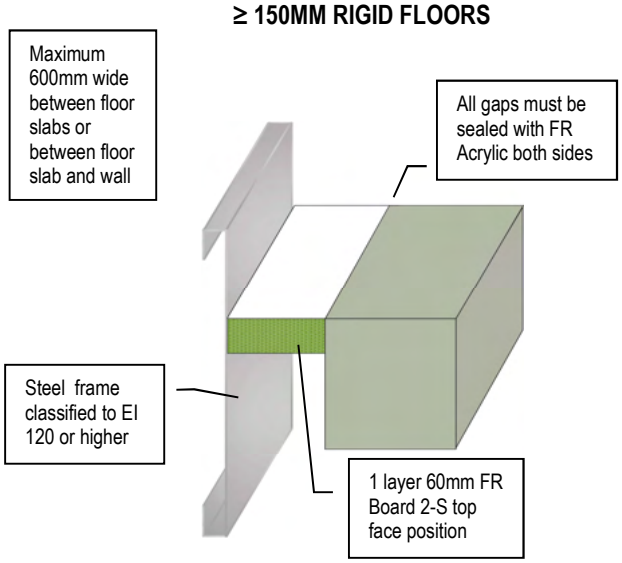
LINEAR SEALS FIRE RESISTANCE E 120

≥ 150MM RIGID FLOORS



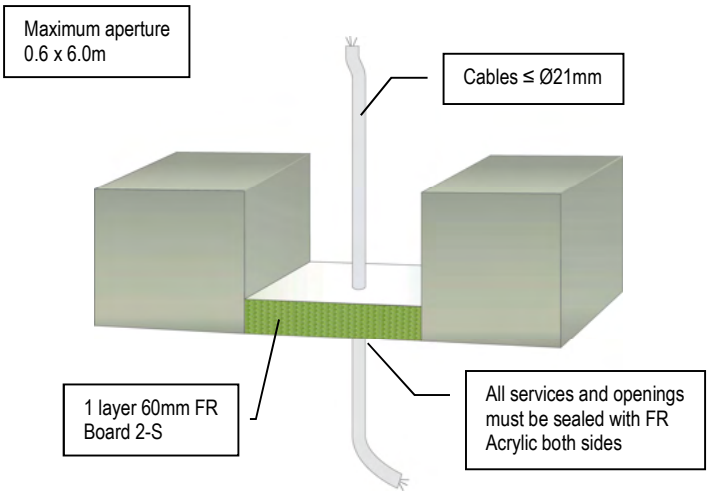
LINEAR SEALS FIRE RESISTANCE EI 120 (E 120)

≥ 150MM RIGID FLOORS



CABLES FIRE RESISTANCE EI 30 (E 240)

≥ 150MM RIGID FLOORS



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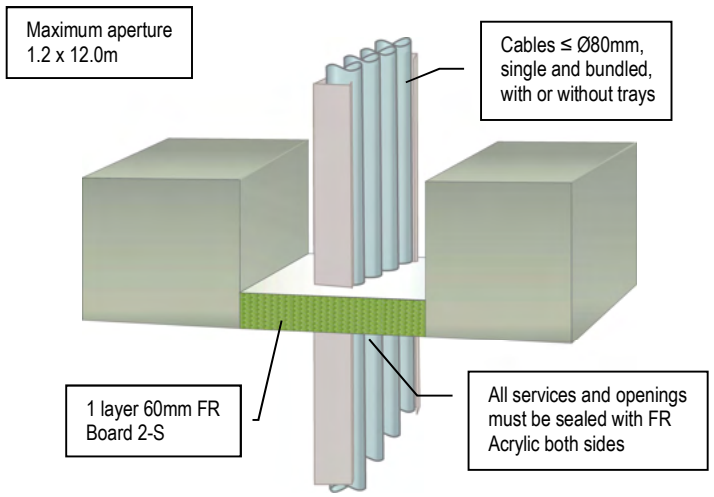
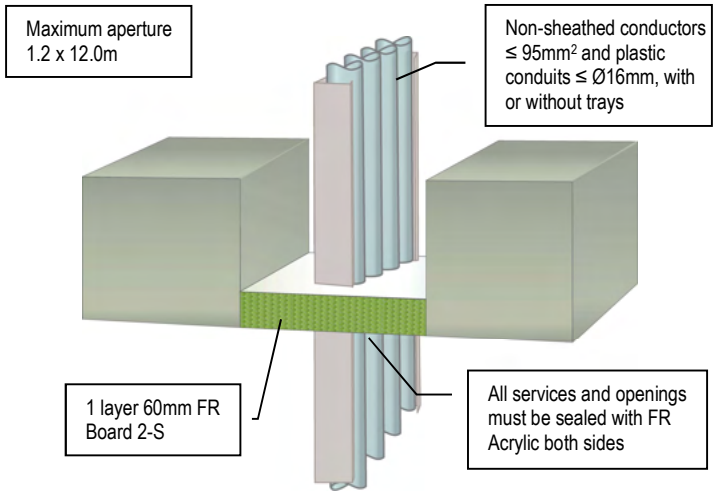
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 90)

≥ 150MM RIGID FLOORS



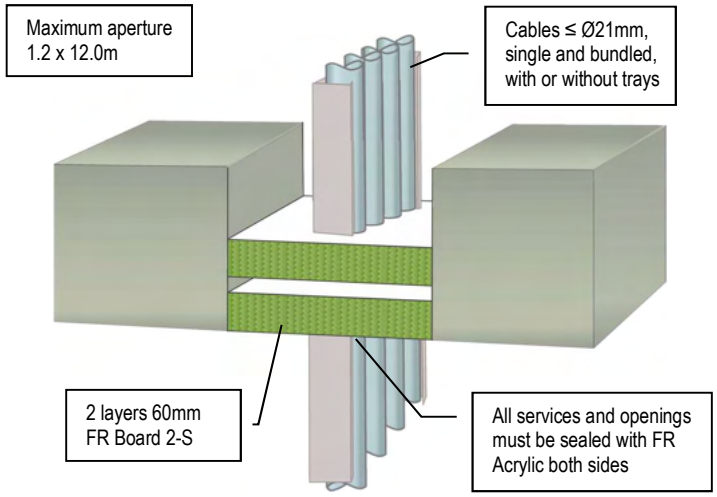
CONDUCTORS AND CONDUITS FIRE RESISTANCE EI 30 (E 45)

≥ 150MM RIGID FLOORS



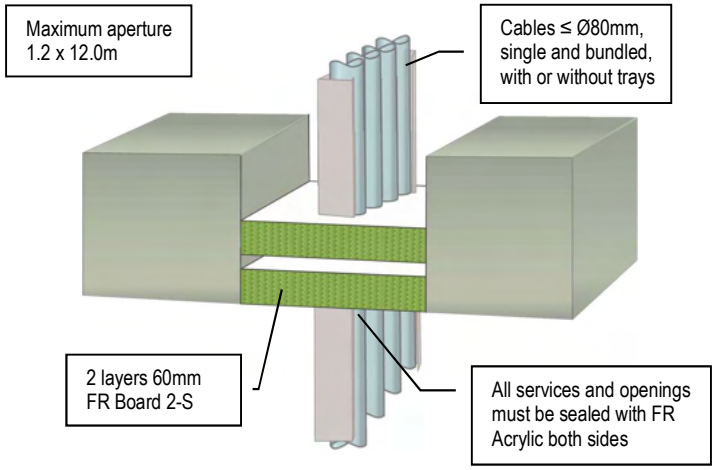
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 120 (E 120)

≥ 150MM RIGID FLOORS



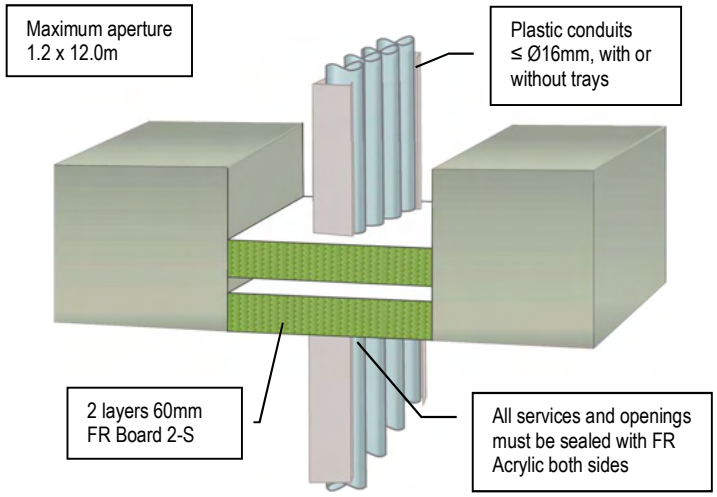
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 120)

≥ 150MM RIGID FLOORS



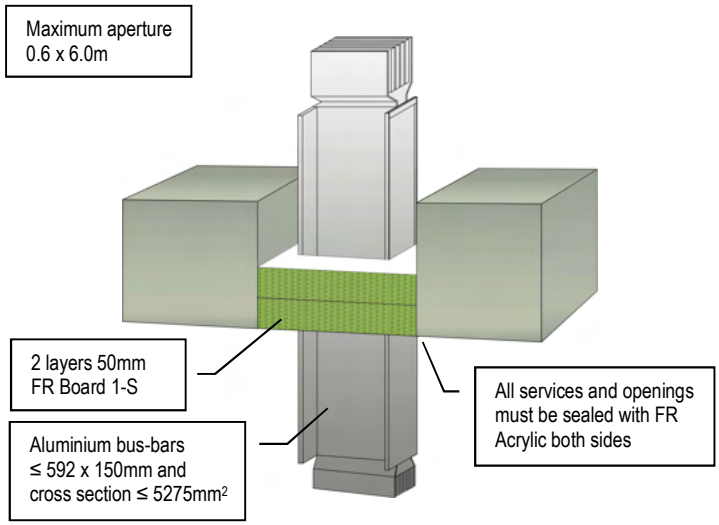
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 90 (E 120)

≥ 150MM RIGID FLOORS



BUS-BARS FIRE RESISTANCE EI 20 (E 180)

≥ 150MM RIGID FLOORS



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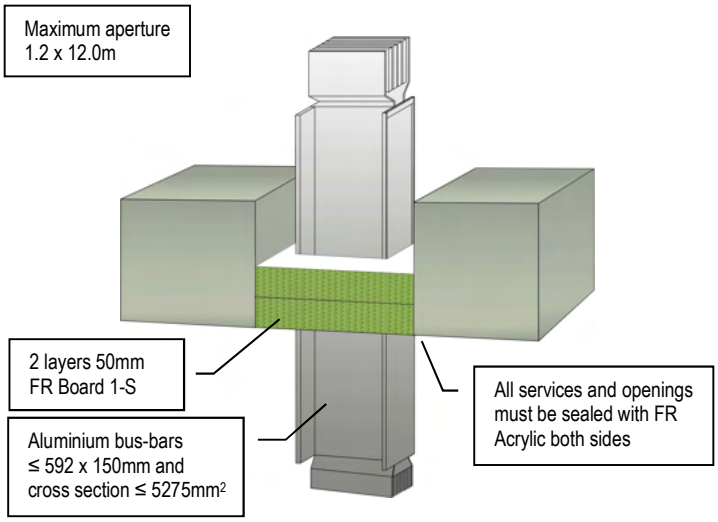
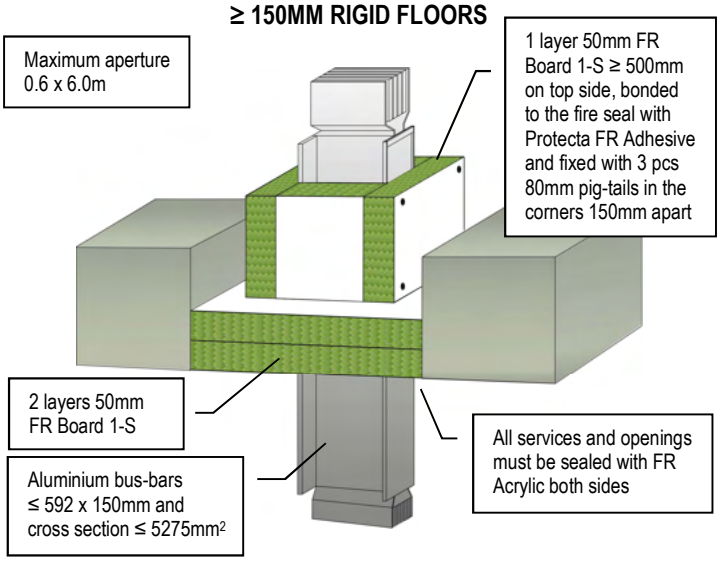
BUS-BARS FIRE RESISTANCE EI 20 (E 120)

≥ 150MM RIGID FLOORS



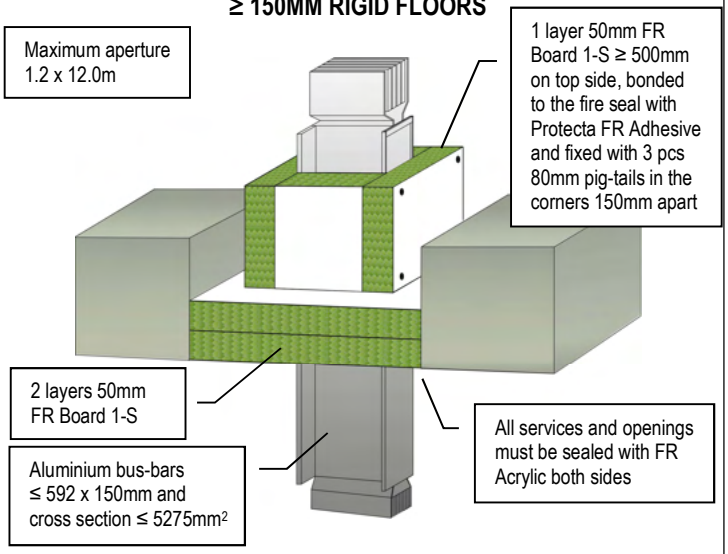
BUS-BARS FIRE RESISTANCE EI 60 (E 240)

≥ 150MM RIGID FLOORS



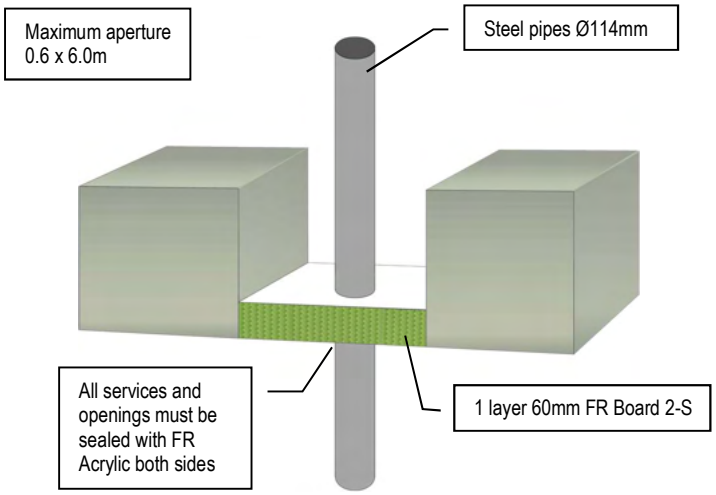
BUS-BARS FIRE RESISTANCE EI 60 (E 120)

≥ 150MM RIGID FLOORS



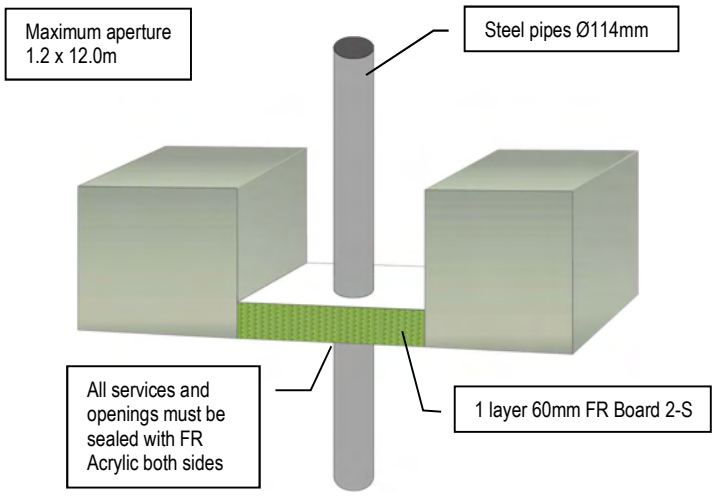
STEEL PIPES FIRE RESISTANCE EI 20 C/C (E 240)

≥ 150MM RIGID FLOORS



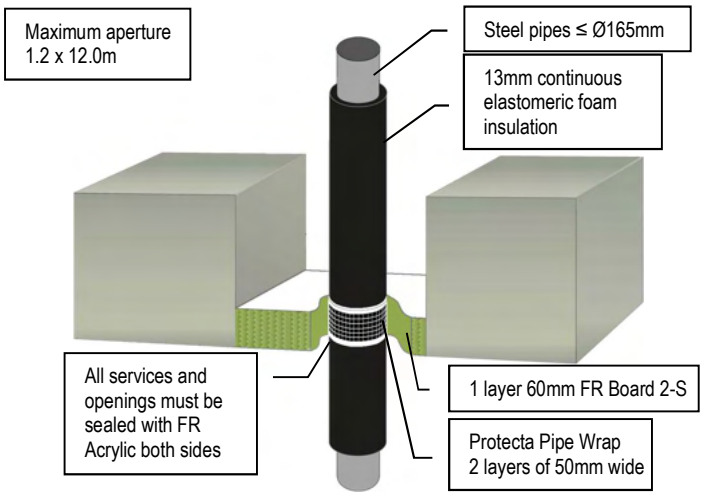
STEEL PIPES FIRE RESISTANCE EI 20 C/C (E 120)

≥ 150MM RIGID FLOORS



INSULATED STEEL PIPES FIRE RESISTANCE EI 45 C/U (E 90)

≥ 150MM RIGID FLOORS



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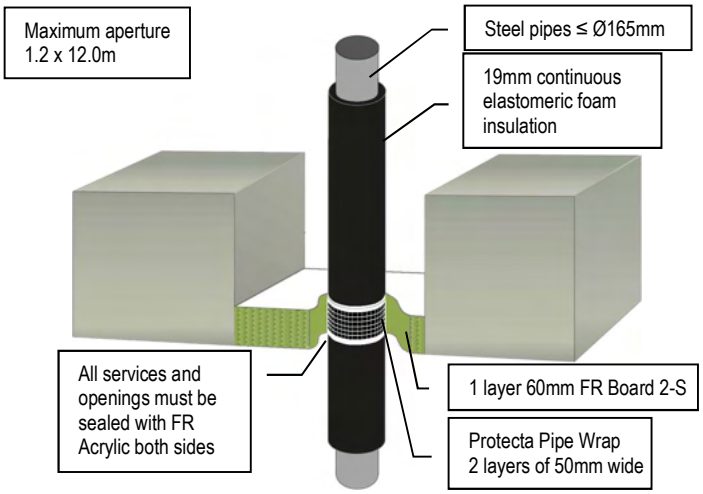
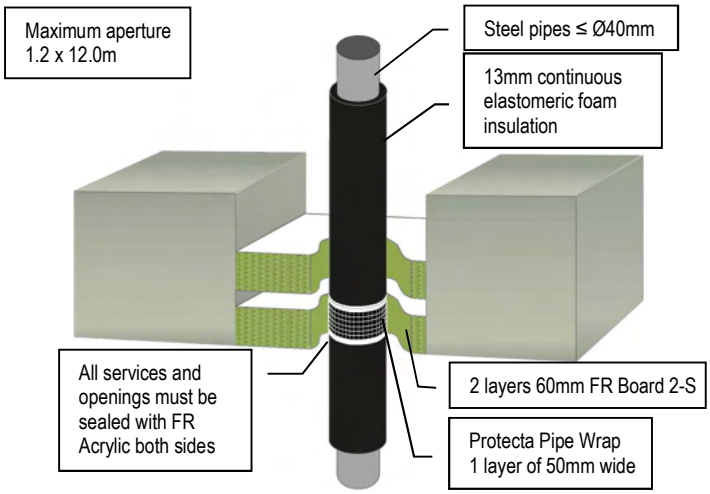
INSULATED STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 90)

≥ 150MM RIGID FLOORS



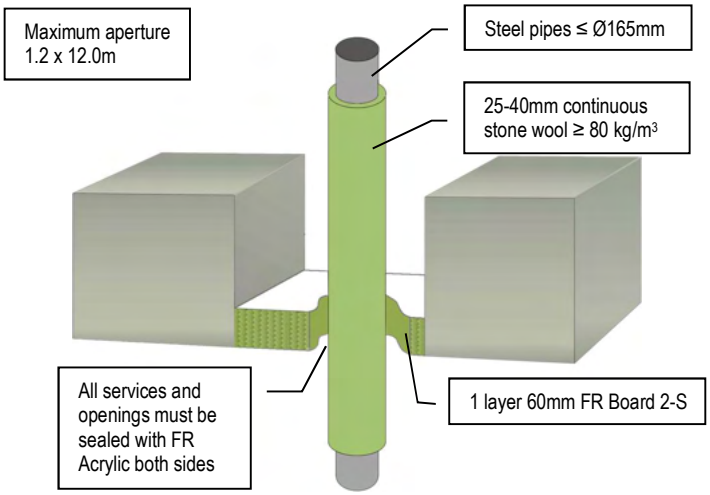
INSULATED STEEL PIPES FIRE RESISTANCE EI 120 C/U (E180)

≥ 150MM RIGID FLOORS



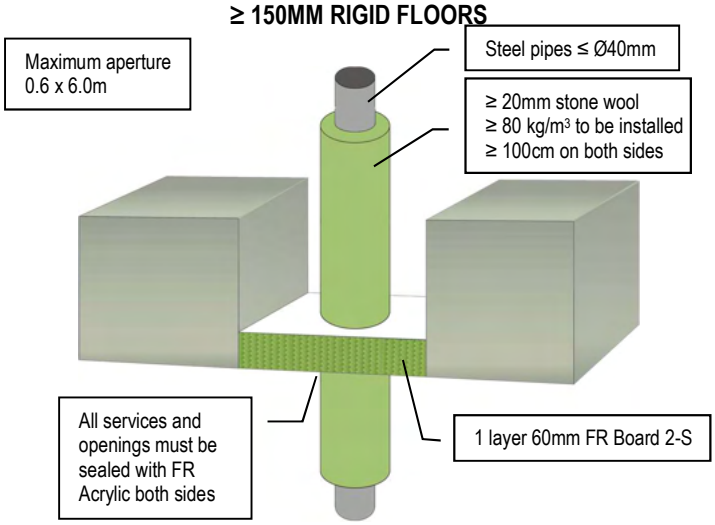
INSULATED STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 150MM RIGID FLOORS



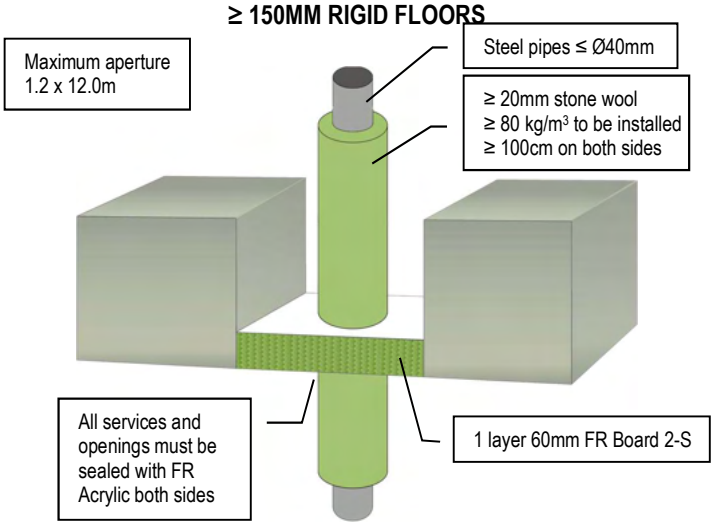
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 240)

≥ 150MM RIGID FLOORS



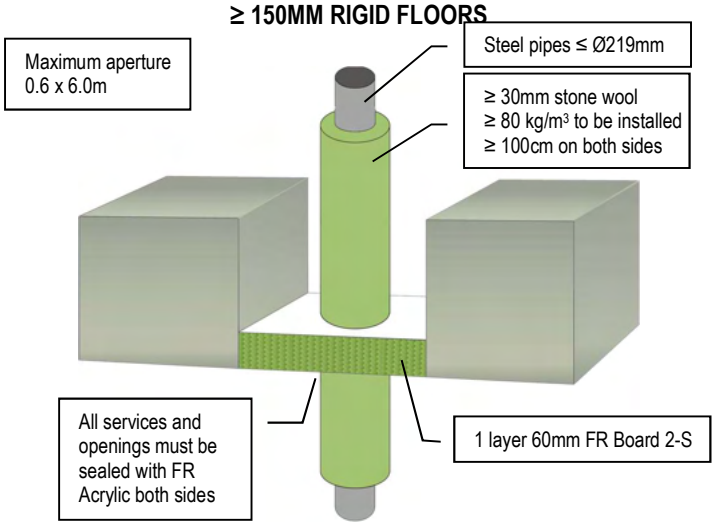
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 120)

≥ 150MM RIGID FLOORS



STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 240)

≥ 150MM RIGID FLOORS



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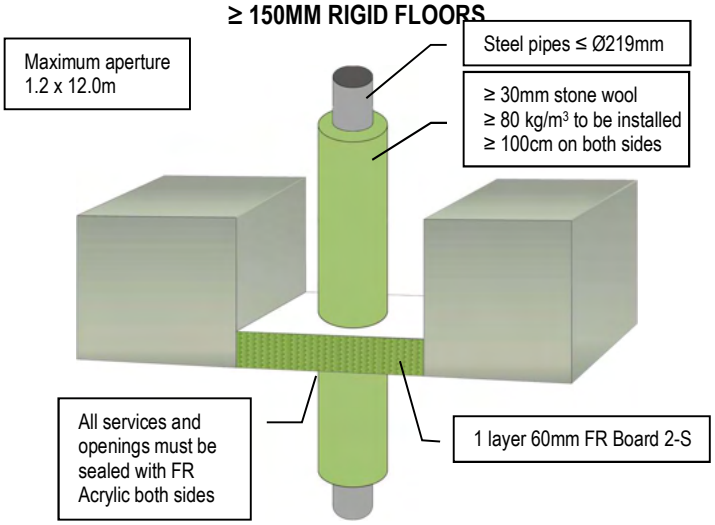
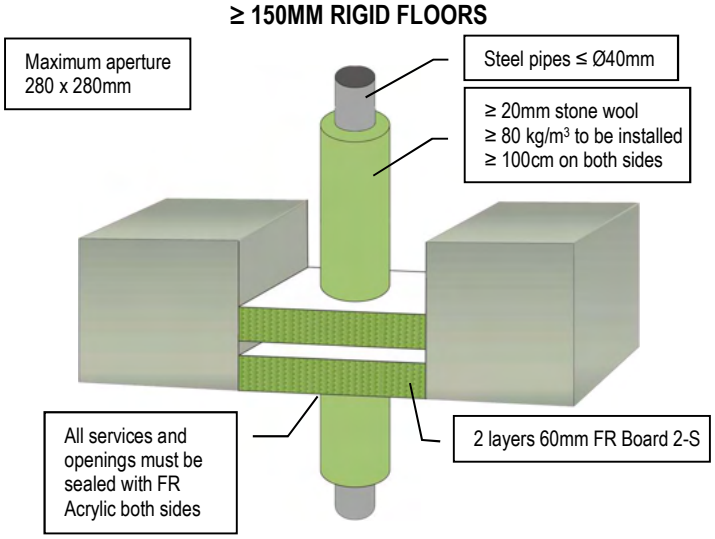
STEEL PIPES FIRE RESISTANCE EI 90 C/U (E 120)

≥ 150MM RIGID FLOORS



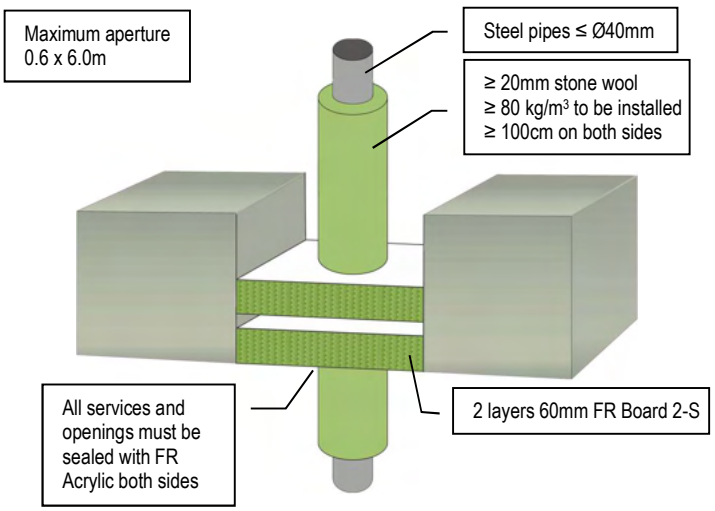
STEEL PIPES FIRE RESISTANCE EI 240 C/U (E 240)

≥ 150MM RIGID FLOORS



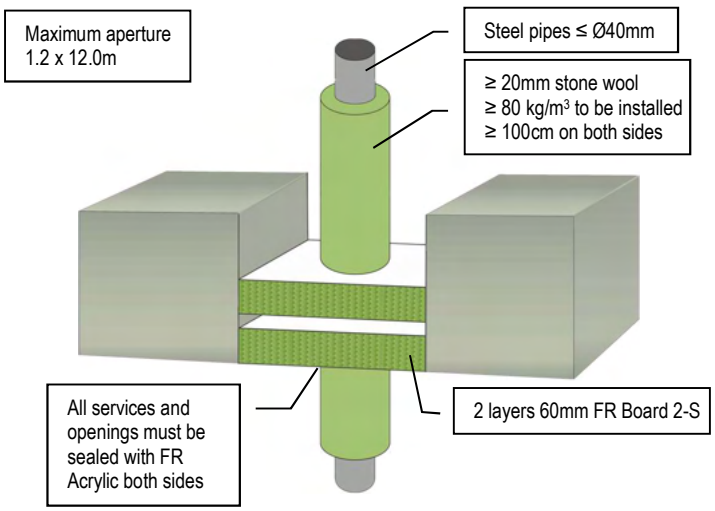
STEEL PIPES FIRE RESISTANCE EI 180 C/U (E 180)

≥ 150MM RIGID FLOORS



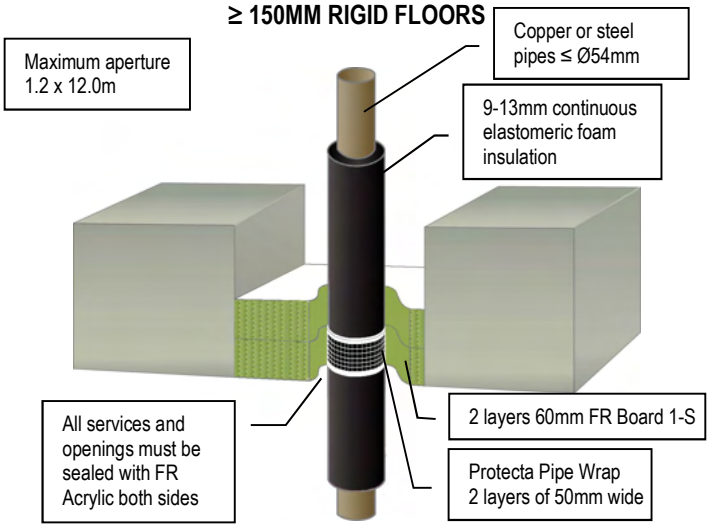
STEEL PIPES FIRE RESISTANCE EI 120 C/U (E 180)

≥ 150MM RIGID FLOORS



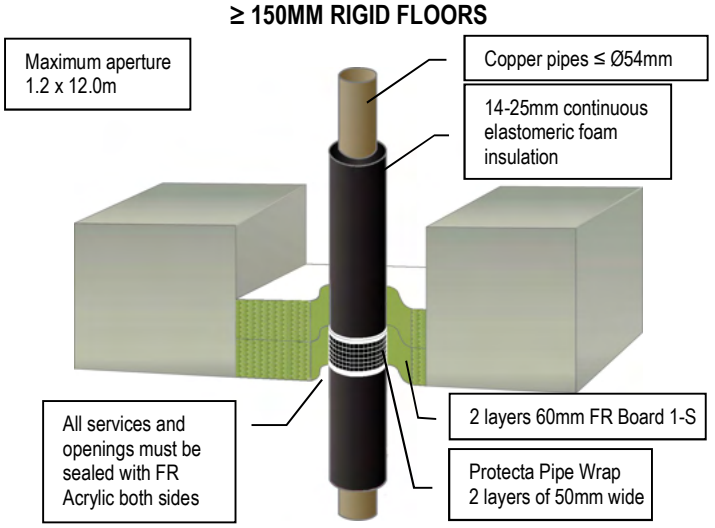
COPPER OR STEEL PIPES FIRE RESISTANCE EI 60 C/C (E 240)

≥ 150MM RIGID FLOORS



COPPER PIPES FIRE RESISTANCE EI 45 C/C (E 180)

≥ 150MM RIGID FLOORS



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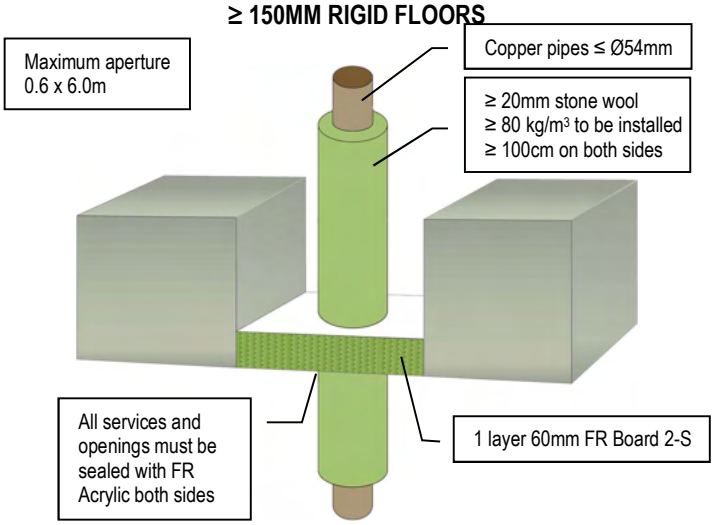
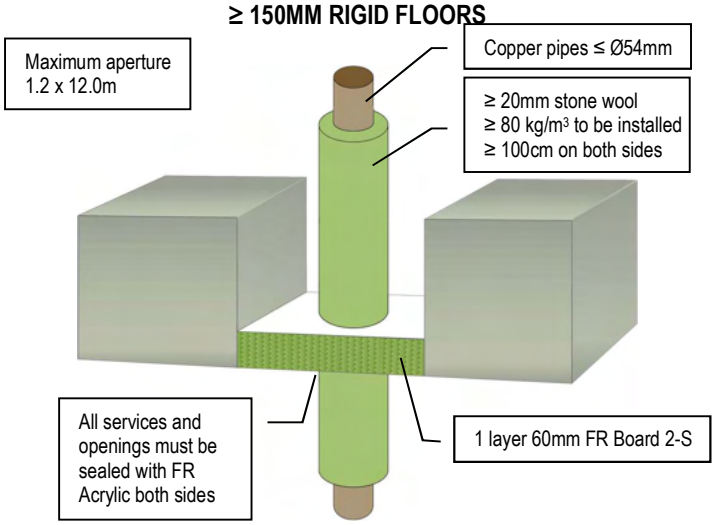
COPPER PIPES FIRE RESISTANCE E 240 C/U

≥ 150MM RIGID FLOORS



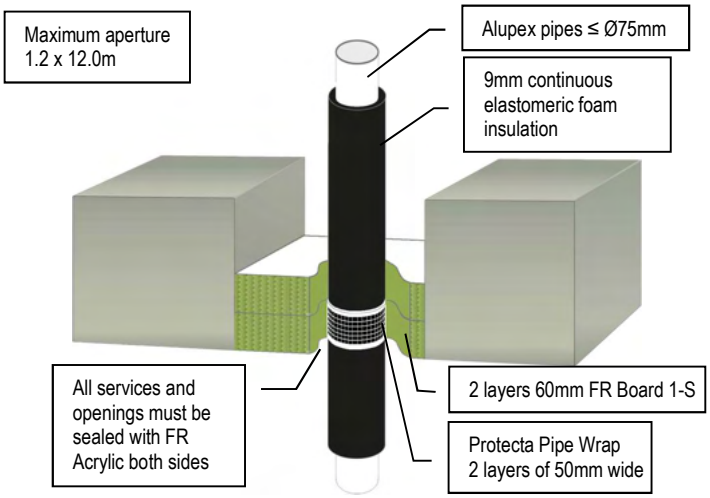
COPPER PIPES FIRE RESISTANCE E 120 C/U

≥ 150MM RIGID FLOORS



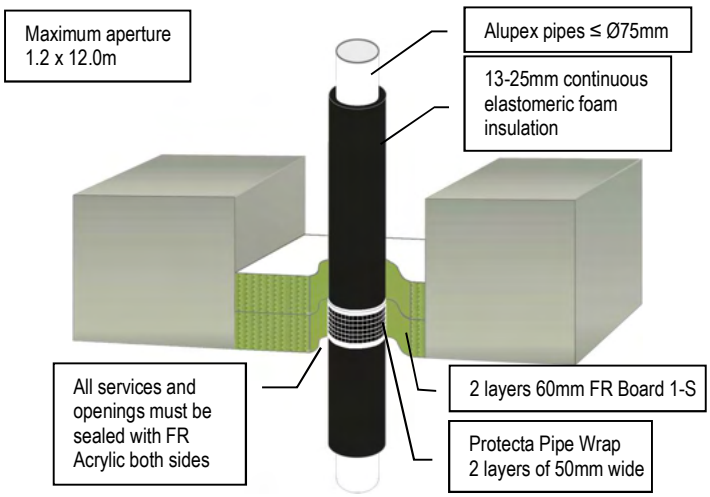
ALUPEX PIPES FIRE RESISTANCE EI 120 C/C (E 120)

≥ 150MM RIGID FLOORS



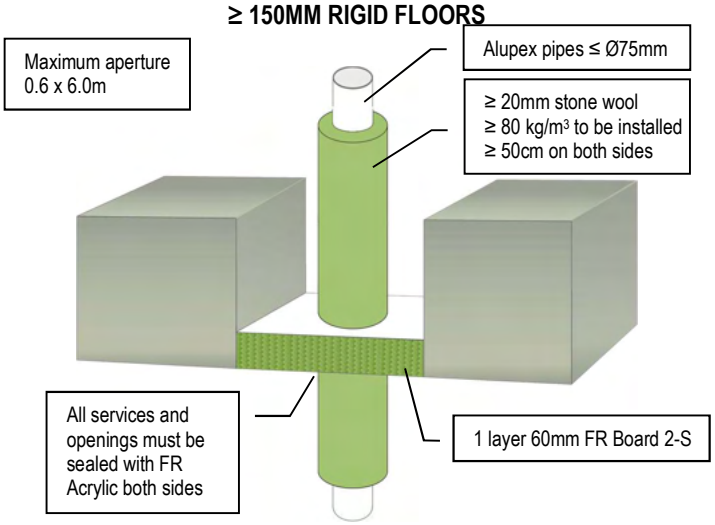
ALUPEX PIPES FIRE RESISTANCE EI 45 C/C (E 60)

≥ 150MM RIGID FLOORS



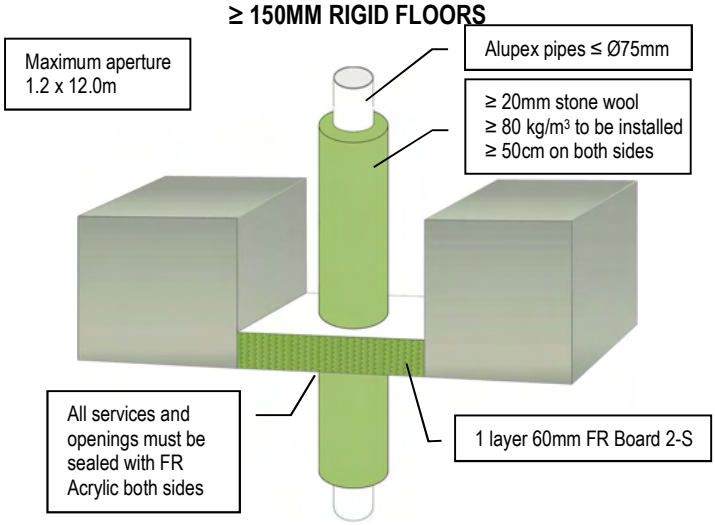
ALUPEX PIPES FIRE RESISTANCE EI 90 C/C (E 240)

≥ 150MM RIGID FLOORS



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

≥ 150MM RIGID FLOORS



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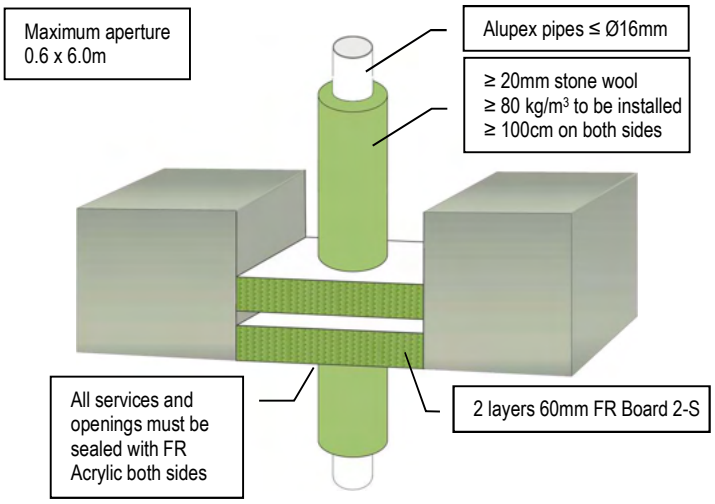
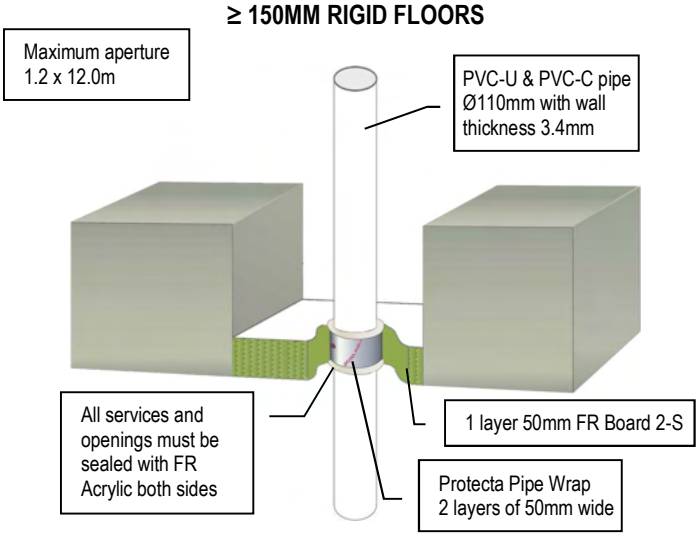
ALUPEX PIPES FIRE RESISTANCE EI 180 C/C (E 240)

≥ 150MM RIGID FLOORS



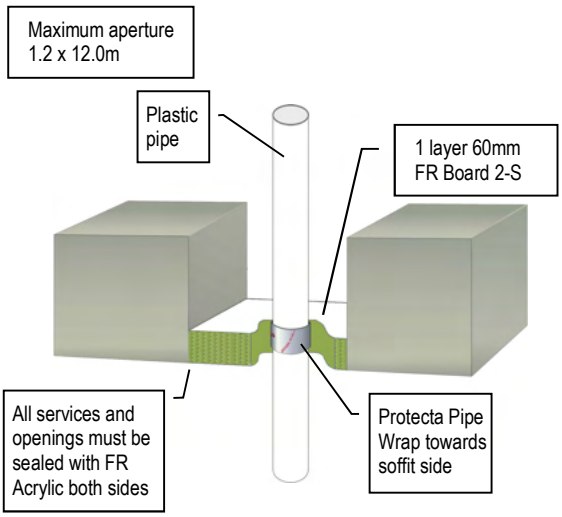
PVC PIPES FIRE RESISTANCE EI 90 U/C (E 90)

≥ 150MM RIGID FLOORS



PLASTIC PIPES FIRE RESISTANCE EI 60

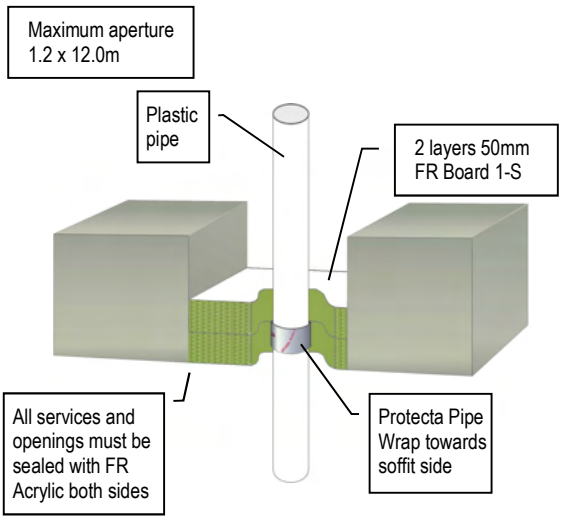
≥ 125MM RIGID FLOORS



Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 120)
≤ Ø 110mm PVC	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤ Ø 40mm PE	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤ Ø 110mm PE	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤ Ø 110mm PP	2.7 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 C/C (E 60)

PLASTIC PIPES FIRE RESISTANCE EI 60

≥ 125MM RIGID FLOORS



Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 120)
≤ Ø 110mm PVC	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤ Ø 40mm PE	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤ Ø 110mm PE	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤ Ø 110mm PP	2.7 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 C/C (E 60)
≤ Ø 160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60)

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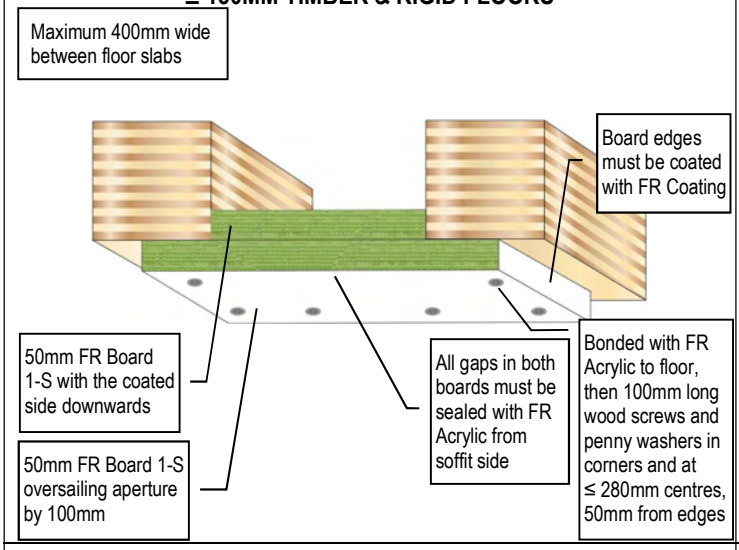
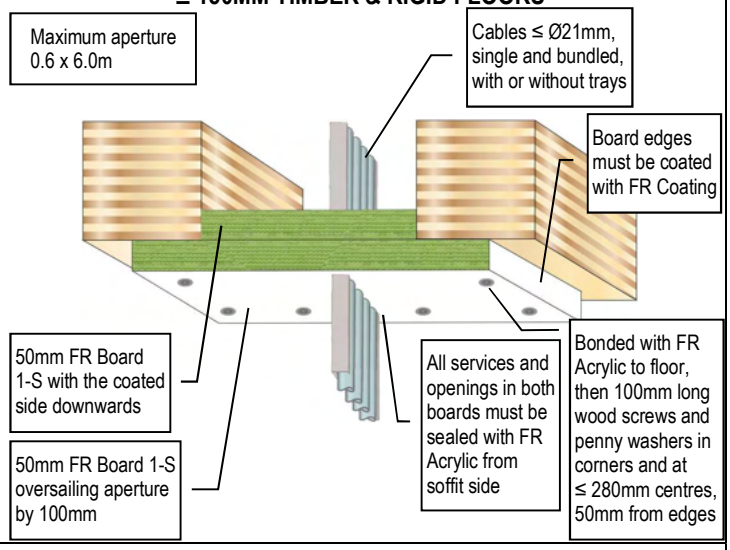
LINEAR SEALS FIRE RESISTANCE EI 90 (E 90)

≥ 150MM TIMBER & RIGID FLOORS



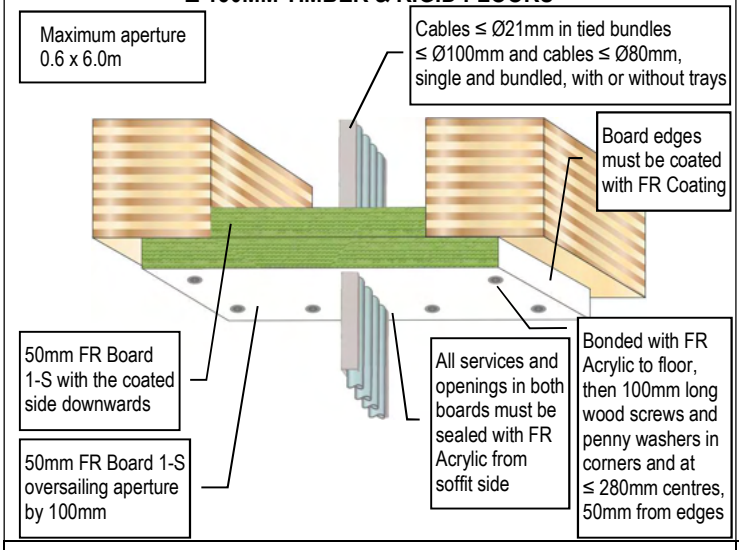
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 45 (E 90)

≥ 150MM TIMBER & RIGID FLOORS



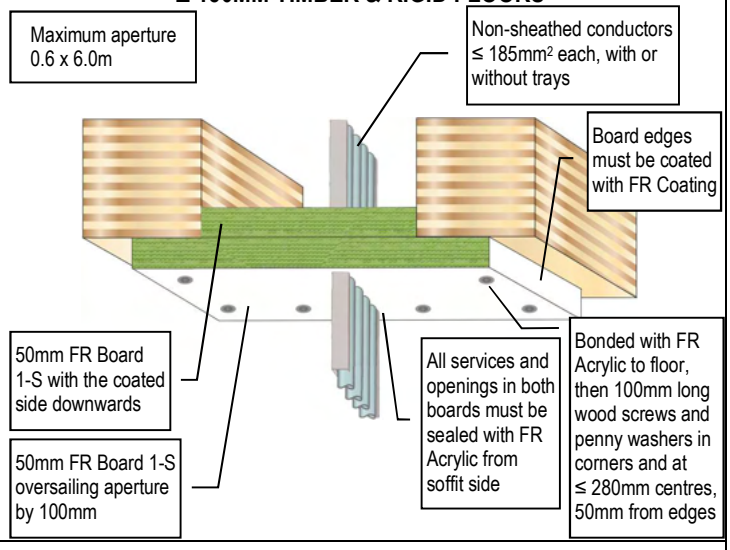
CABLES AND CABLE TRAYS FIRE RESISTANCE EI 60 (E 90)

≥ 150MM TIMBER & RIGID FLOORS



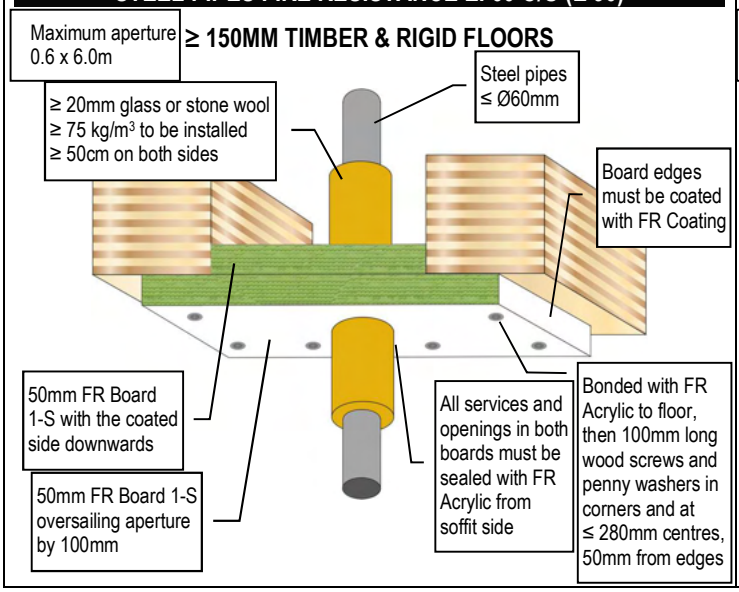
CONDUCTORS AND CABLE TRAYS FIRE RESISTANCE EI 30 (E 90)

≥ 150MM TIMBER & RIGID FLOORS



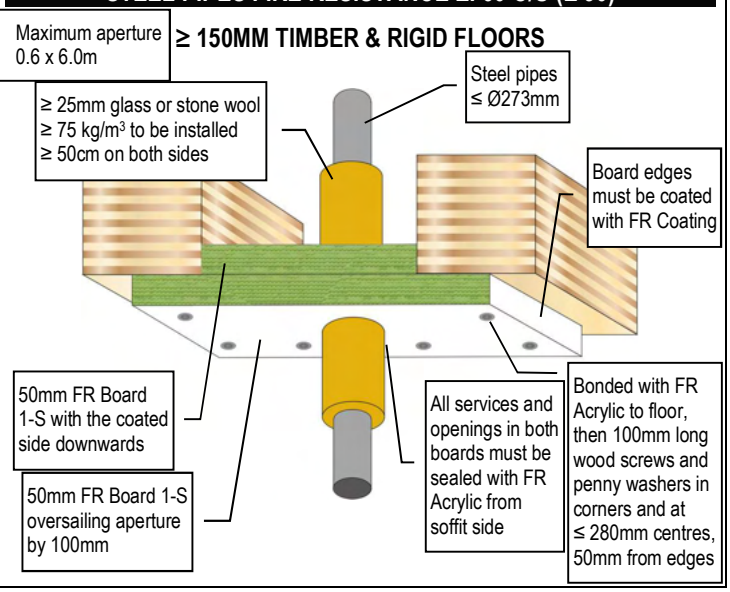
STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 150MM TIMBER & RIGID FLOORS



STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90)

≥ 150MM TIMBER & RIGID FLOORS



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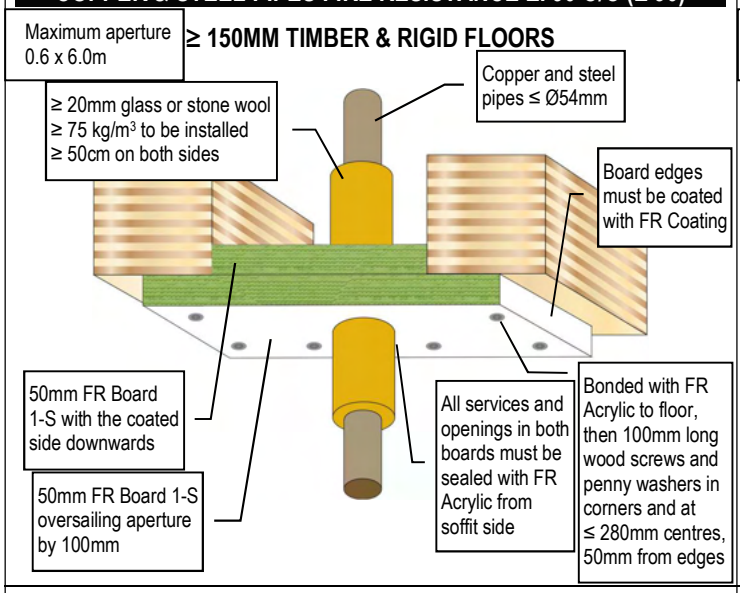
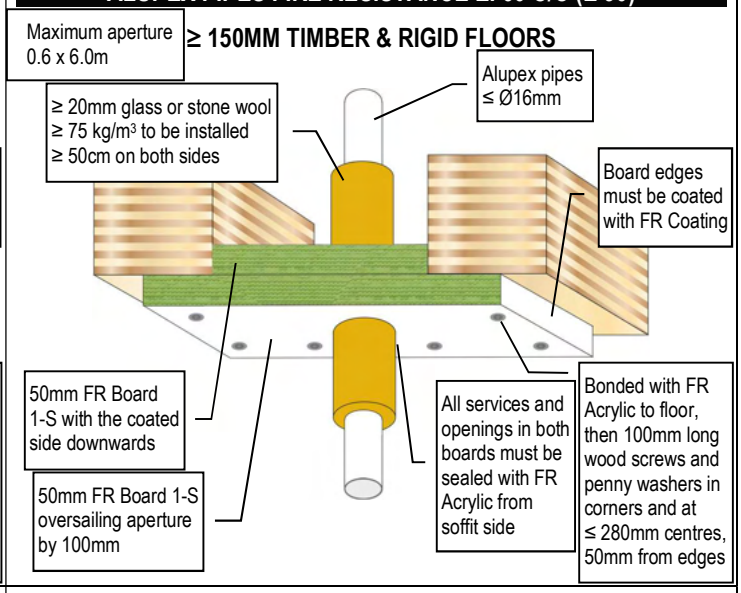
COPPER & STEEL PIPES FIRE RESISTANCE EI 90 C/C (E 90)

≥ 150MM TIMBER & RIGID FLOORS



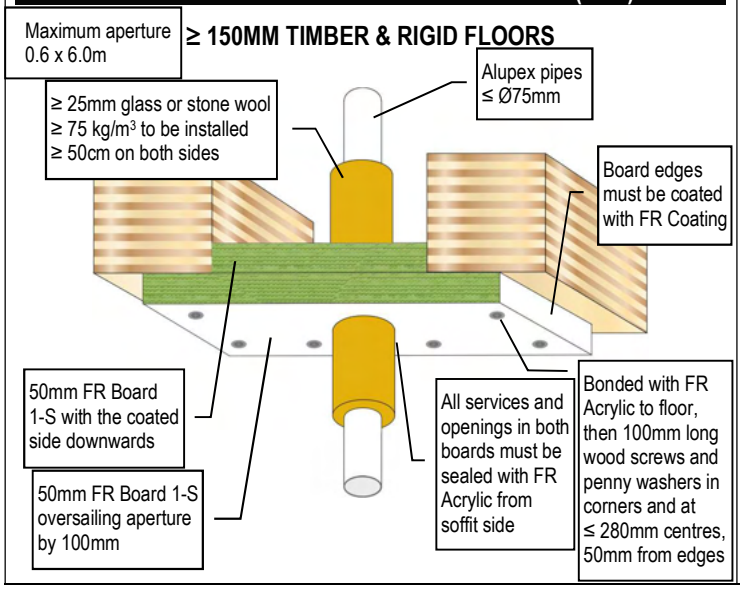
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 150MM TIMBER & RIGID FLOORS



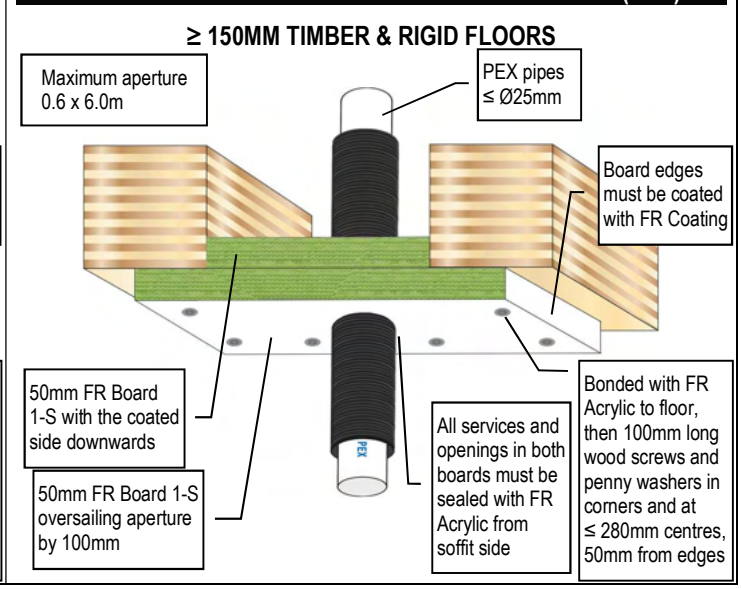
ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 90)

≥ 150MM TIMBER & RIGID FLOORS



PEX PIPE IN PIPES SYSTEM FIRE RESISTANCE EI 90 (E 90)

≥ 150MM TIMBER & RIGID FLOORS



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“	Stone-wool, interrupted	19
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PVC pipes, small, w/o pipe wraps	-	21
PE pipes, small, w/o wraps	-	21
PP pipes, small, w/o pipe wraps	-	22
Plastic pipes, large	-	22 - 24
PE pipes	Elastomeric & PE, continuous	24 - 25
PP pipes	Elastomeric & PE, continuous	25
Plastic conduits	-	26 - 27
Bundled plastic pipes and conduits	-	27
PEX pipe-in-pipes	-	28 - 29
Aquatherm Green pipes	-	29 - 30
Bluepower pipes	-	30 - 31
Geberit Silent pipes	-	31 - 32
POLO-KAL NG pipes	-	32 - 33
Rehau Raupiano pipes	-	33 - 34
Uponor Decibel pipes	-	34 - 35
Wavin AS+ pipes	-	35 - 36
Wavin SiTech pipes	-	36 - 37

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Timber walls

Services	Service insulation	Page no.
Linear seals	-	37
Cables and cable trays	-	38
Bus-bars	-	38
Steel pipes	-	38 - 39
"	Coat-back	39
"	Elastomeric & PE, continuous	39 - 40
"	Phenolic, continuous	40
"	Glass-wool, continuous	40
"	Stone-wool, continuous	40
"	Glass-wool, interrupted	40
"	Stone-wool, interrupted	41
Flexible steel gas pipes	-	41
Copper pipes	-	41 - 42
"	Elastomeric & PE, continuous	42
"	Phenolic, continuous	42 - 43
"	PU, continuous	43
"	Glass- & stone-wool, continuous	43
"	Glass-wool, interrupted	44
"	Stone-wool, interrupted	44
Alupex pipes	-	44
"	Elastomeric & PE, continuous	44
"	Glass- & stone-wool, continuous	45
"	Glass-wool, interrupted	45
"	Stone-wool, interrupted	45
Metallic pipes w/ graphite	Elastomeric, phenolic & PE, continuous	45
PVC pipes, small, w/o pipe wraps	-	46
PE pipes, small, w/o wraps	-	46
PP pipes, small, w/o pipe wraps	-	46
Plastic pipes, large	-	46
PE pipes	Elastomeric & PE, continuous	47
PP pipes	Elastomeric & PE, continuous	47
Plastic conduits	-	48
Bundled plastic pipes and conduits	-	48
PEX pipe-in-pipes	-	48 - 49
Aquatherm Green pipes	-	49
Bluepower pipes	-	49
Geberit Silent pipes	-	50
POLO-KAL NG pipes	-	50
Rehau Raupiano pipes	-	50
Uponor Decibel pipes	-	51
Wavin AS+ pipes	-	51
Wavin SiTech pipes	-	51

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Rigid walls, additional items

Services	Service insulation	Page no.
Linear seals	-	52 - 53
Cables and cable trays	-	53 - 55
Steel pipes	Elastomeric & PE, continuous	55
“	Stone-wool, continuous	55 - 56
“	Stone-wool, interrupted	57 - 58
Copper pipes	-	58
“	Elastomeric & PE, continuous	58
“	Glass- & stone-wool, continuous	58
“	Glass-wool, interrupted	58
“	Stone-wool, interrupted	58 - 59
Alupex pipes	Glass- & stone-wool, continuous	59
“	Stone-wool, interrupted	59 - 60
Plastic pipes, small, w/o pipe wraps	-	60 - 61
Bundled plastic pipes	-	61
Plastic pipes, large	-	61
Plastic conduits	-	62

Rigid floors

Services	Service insulation	Page no.
Linear seals	-	62 – 63
Cables and cable trays	-	63 - 64
Bus-bars	-	64 - 65
“	FR Board	65
Steel pipes	-	65
“	Elastomeric, continuous	65 - 66
“	Stone-wool, continuous	66
“	Stone-wool, interrupted	66 – 67
Copper pipes	Elastomeric, continuous	67
“	Stone-wool, interrupted	68
Alupex pipes	Elastomeric, continuous	68
“	Stone-wool, interrupted	68 - 69
Plastic pipes	-	69

Timber & rigid floors

Services	Service insulation	Page no.
Linear seals	-	70
Cables and cable trays	-	70
Steel pipes	Glass & stone-wool, interrupted	70
Copper pipes	Glass & stone-wool, interrupted	71
Alupex pipes	Glass & stone-wool, interrupted	71
PEX pipe-in-pipes	-	71

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