PROTECTA[®] FR BOARD

INSTALLATION INSTRUCTIONS

<mark>())</mark> Protecta

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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 200 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. The total amount of cross sections of services (including insulation) should not exceed 60 % of the penetration area.

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 650 kg/m³. Rigid floors must have a minimum thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m³. 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 250 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.

TEST STANDARDS

This Installation Instructions and the Technical Data Sheet are based on the product's European Technical Assessment issued in accordance with regulation (EU) No 305/2011 on the basis of EAD 350454-00-1104, September 2017, tested to EN 1366-3, -4 & -12 in conjunction with EN 1363-1. The product hold the following approval marks: CE-Mark, UL-EU Certificate, UAE Certificate of Compliance and AS Assessment.



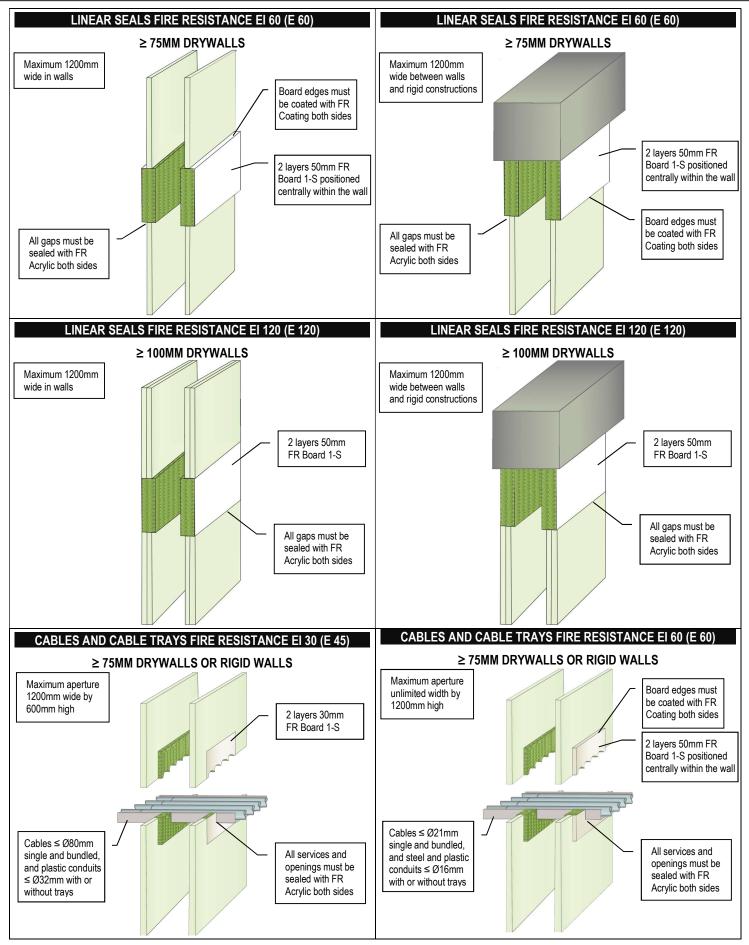
INSTALLATION

- For fire sealing service penetrations and linear seals, installation must be in accordance to the detailed drawings on pages 2 to 61. Where PVC pipes are mentioned, this includes PVC-C and PVC-U. 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. Where PP pipes are mentioned, this includes PP-MV, PP-H, PP-R and similar if the pipe is according to EN 1451-1 or DIN 8077/8078.
- 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.
- Protecta* FR Coating and Protecta* FR Acrylic 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.
- 4. Select the type and number of boards to meet the required fire classification using the detailed drawings. Boards of a greater thickness than stated can be used, and where a single sided coated board is stated, a double sided coated board of the same thickness or greater may be used.
- 5. 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.
- 6. When fitting double layer 60 mm thick boards into masonry or concrete 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.
- 7. When fitting single layer boards into constructions, the board can be positioned to either side of the construction or anywhere in between.
- 8. When installing Protecta[®] FR Board in hollow floor slabs, fire seals specified as single layer boards should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal flush on both sides.
- Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta[®] FR Coating or Protecta[®] FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
- All joints, gaps or imperfections in the installed seal must be filled with Protecta* FR Acrylic on both sides, and any visible mineral fibres must be coated with Protecta* FR Coating.
- Protecta[®] FR Board can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta[®] FR Acrylic seals by painting over with Protecta[®] FR Coating.

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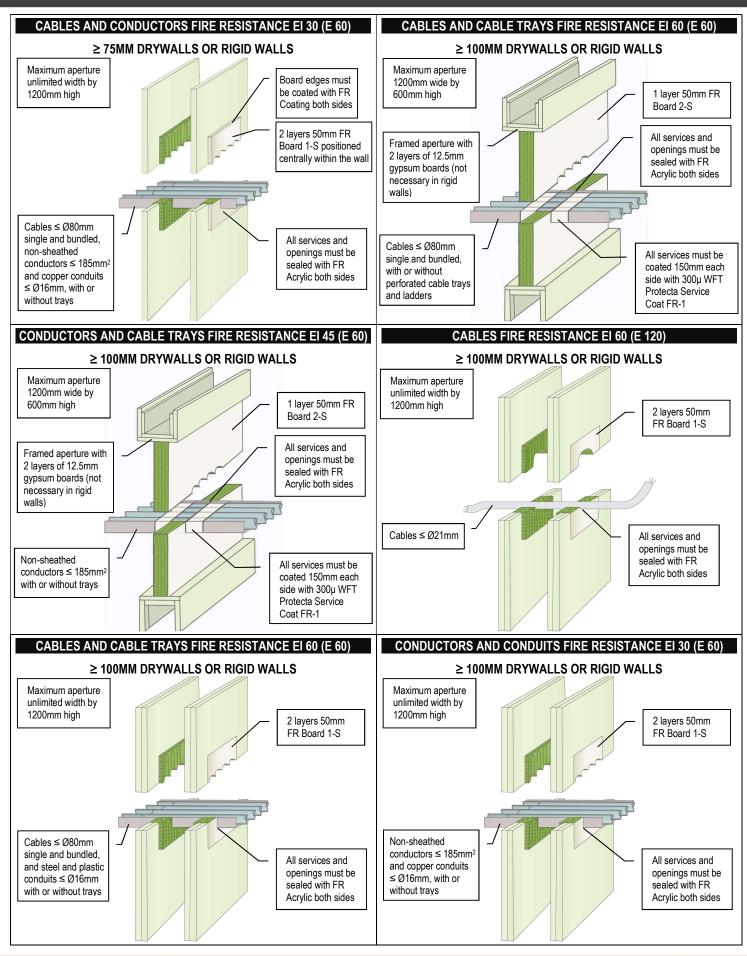




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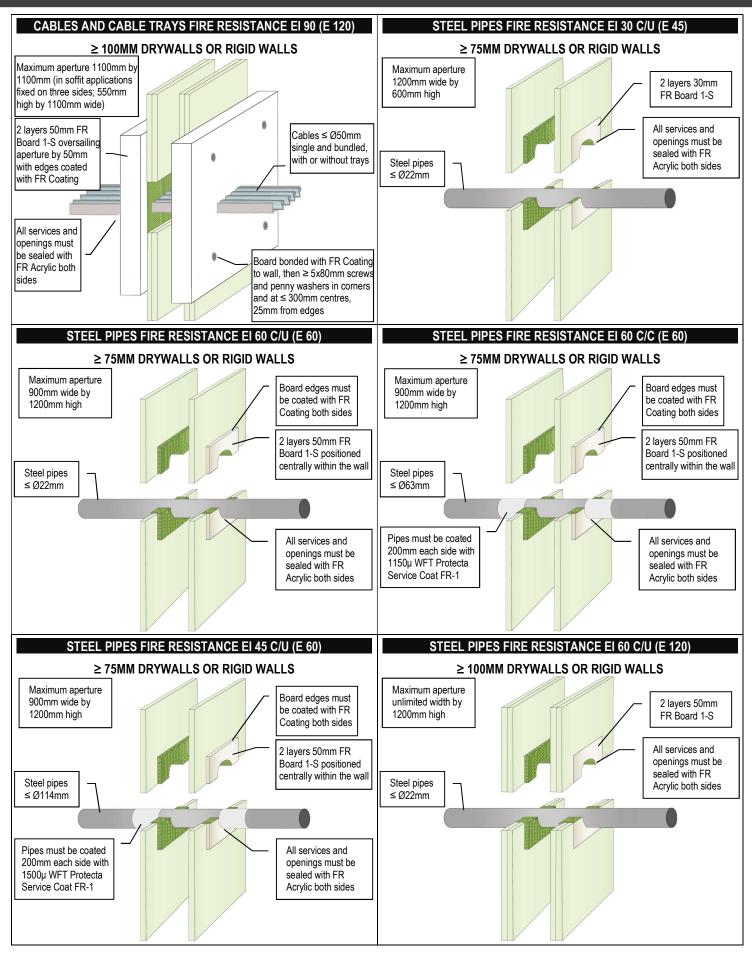


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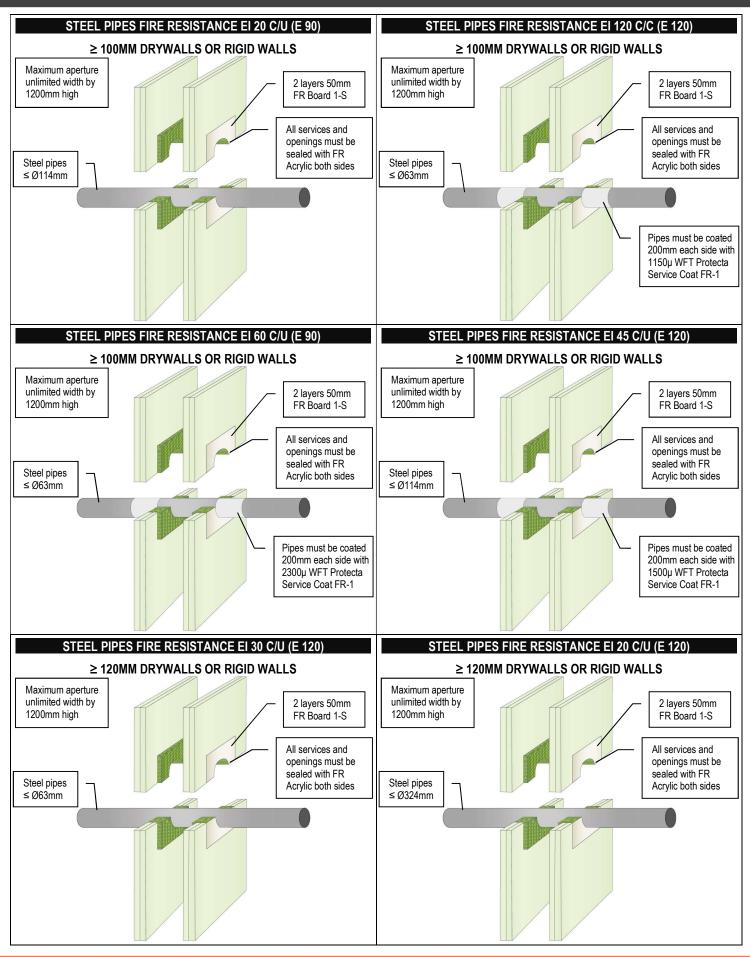


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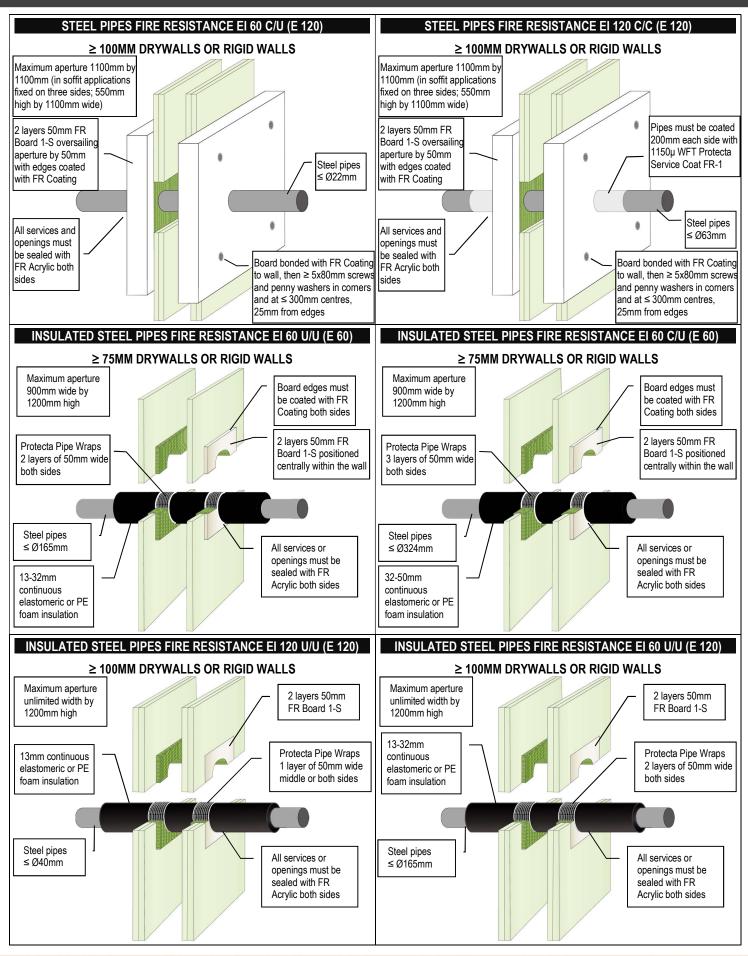
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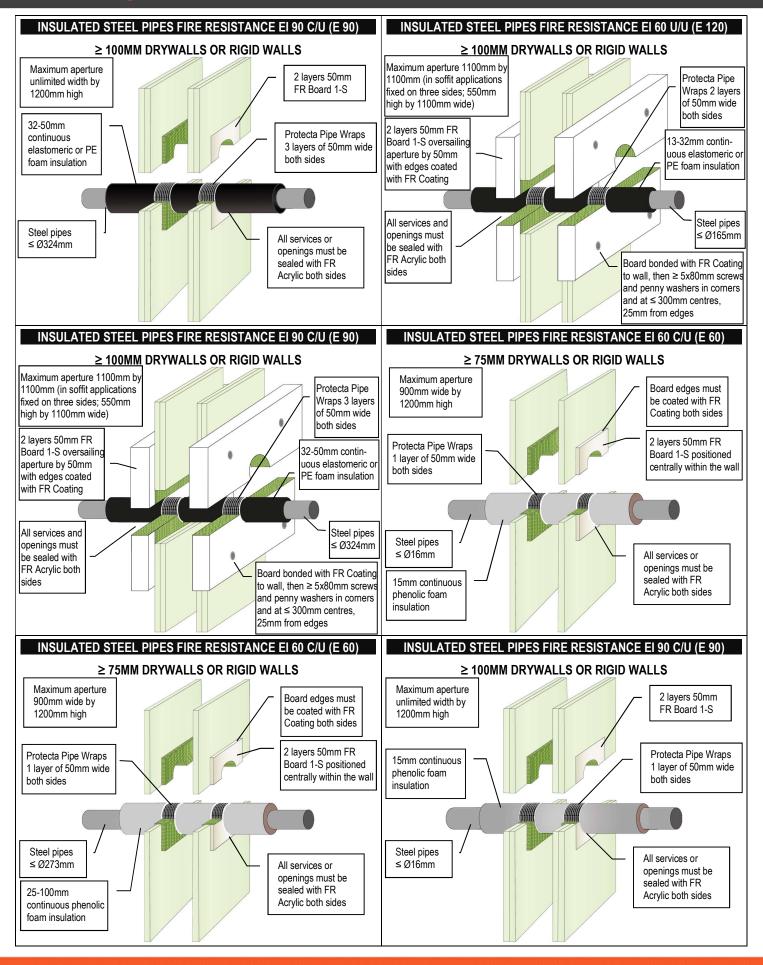


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Detail Drawings Protecta® FR Board



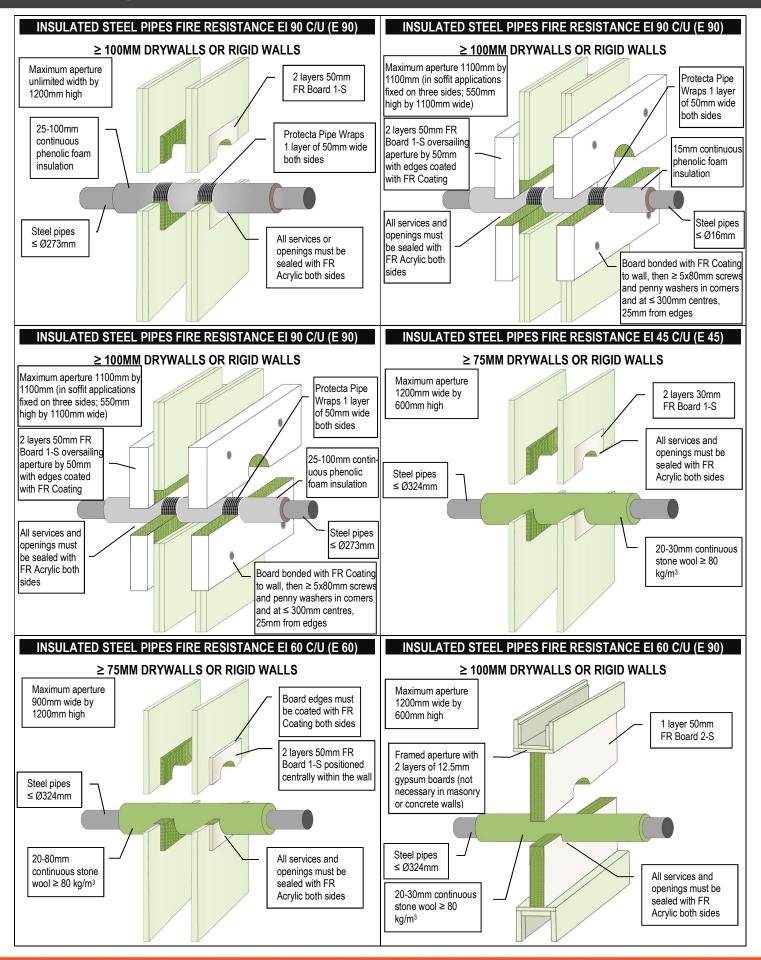
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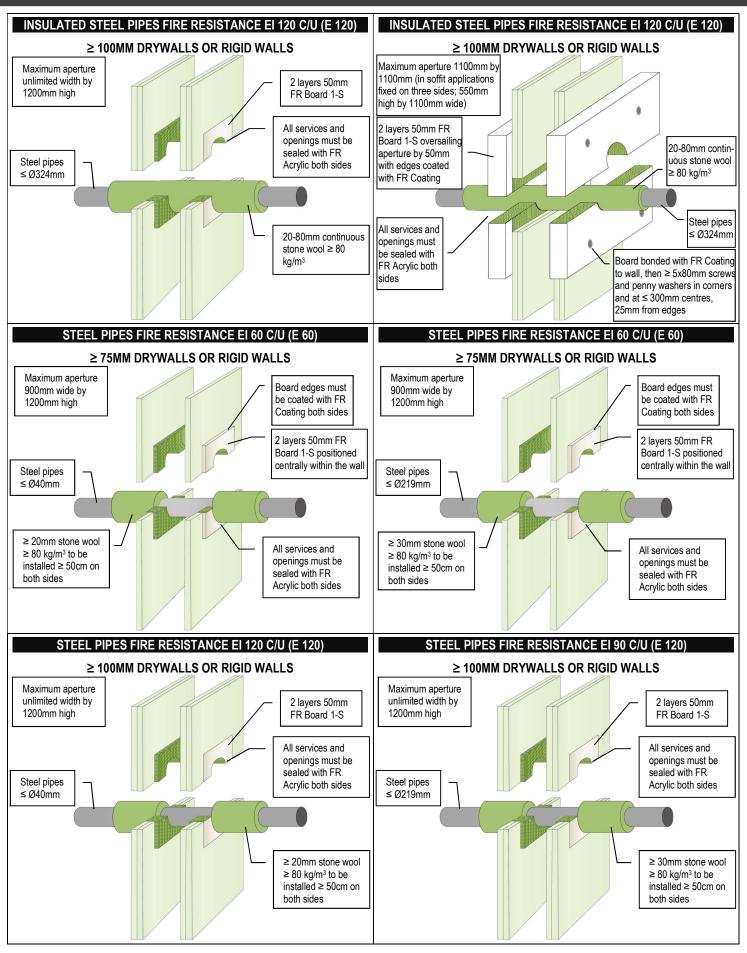


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Detail Drawings Protecta® FR Board



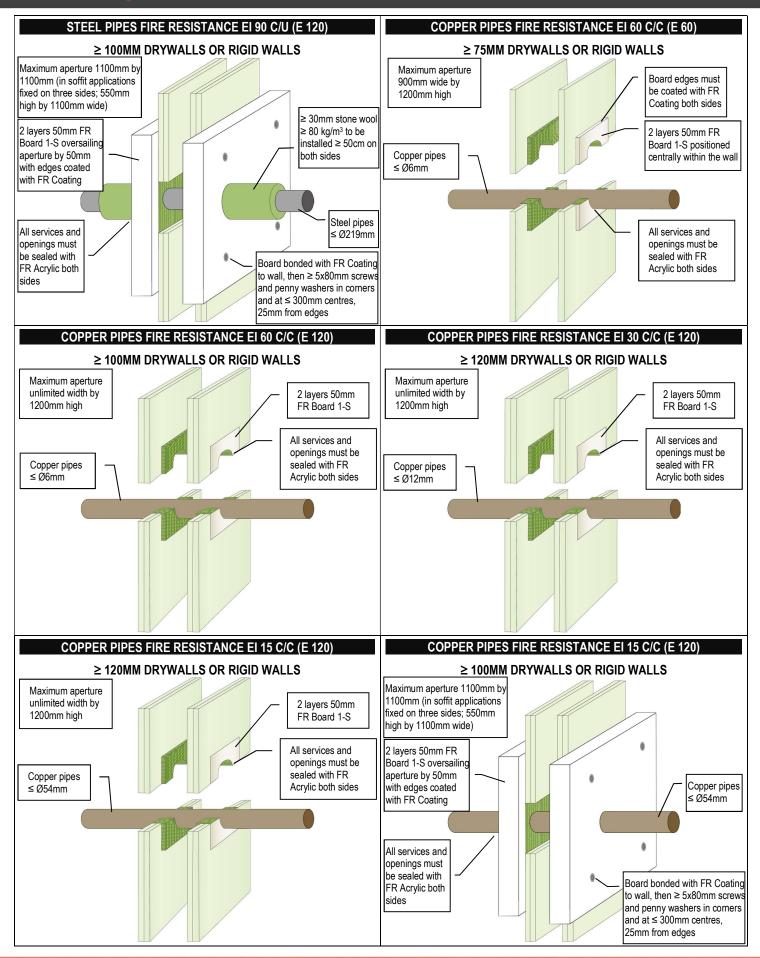
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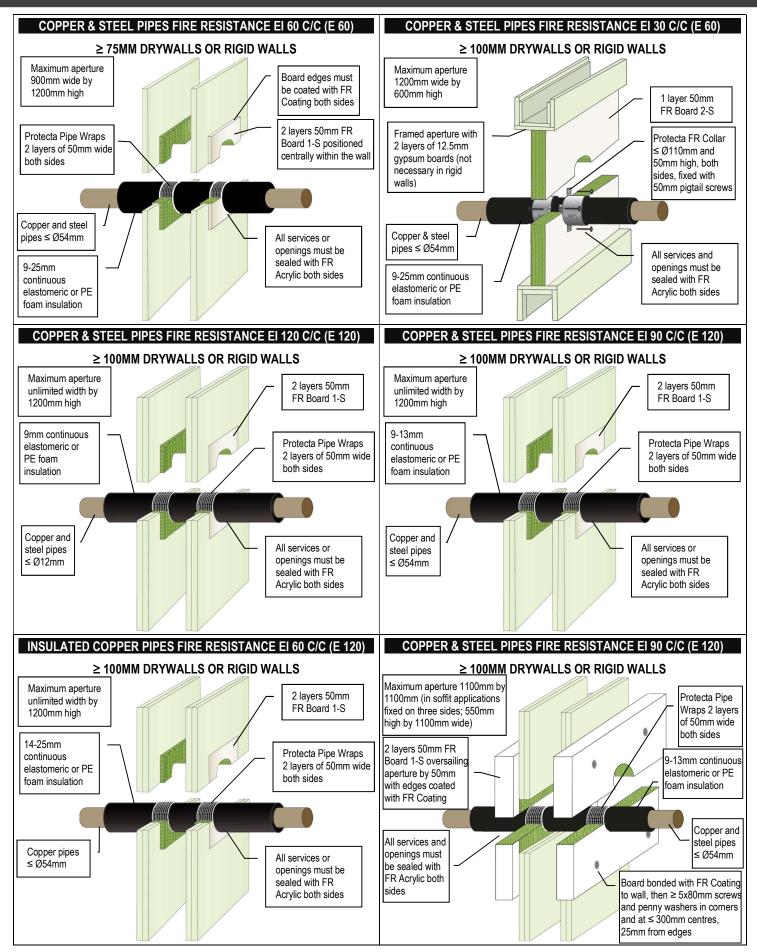




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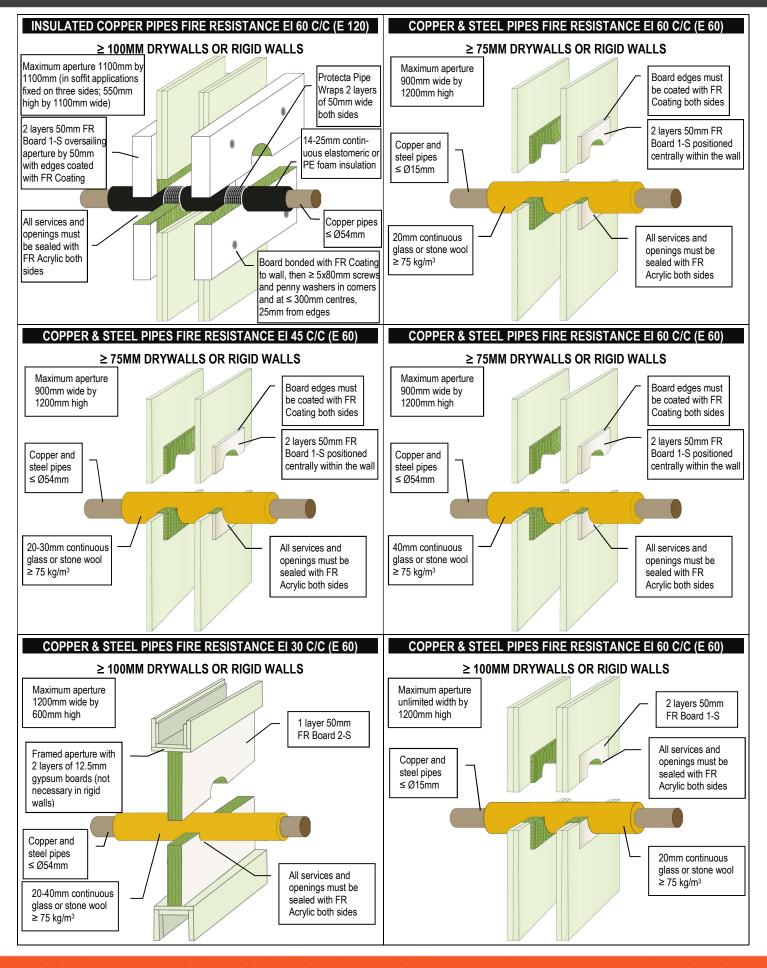
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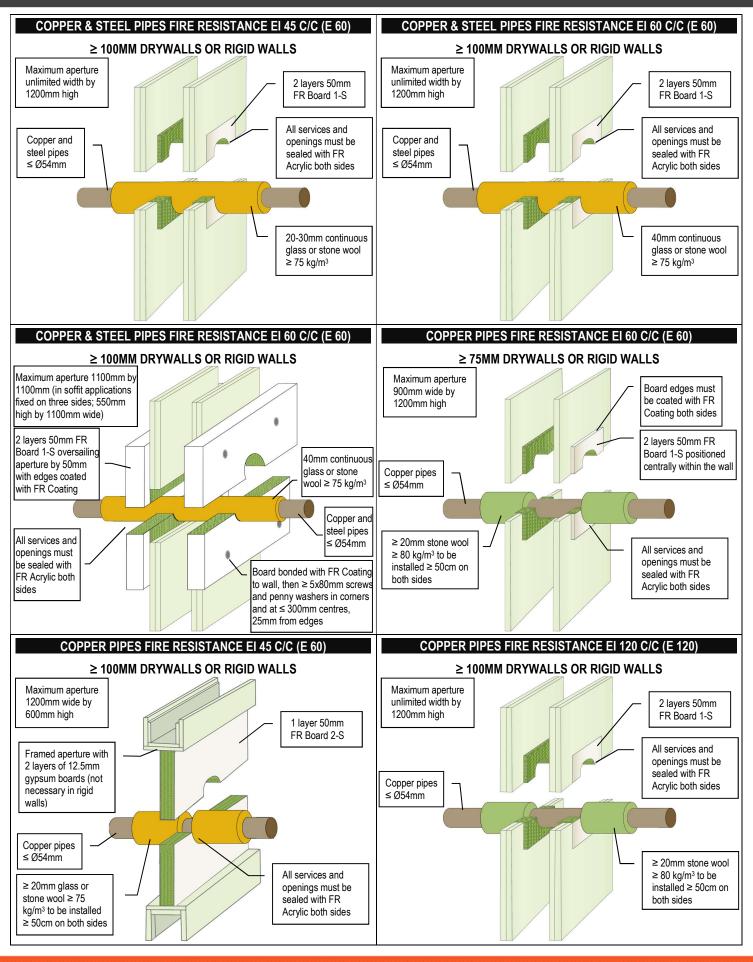
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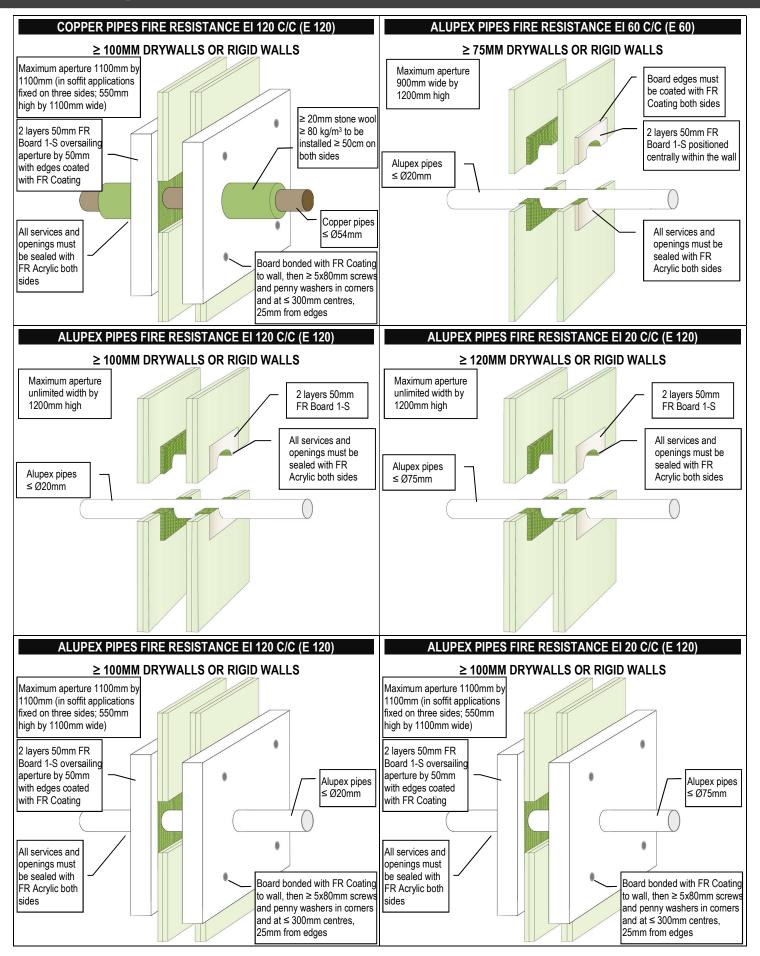
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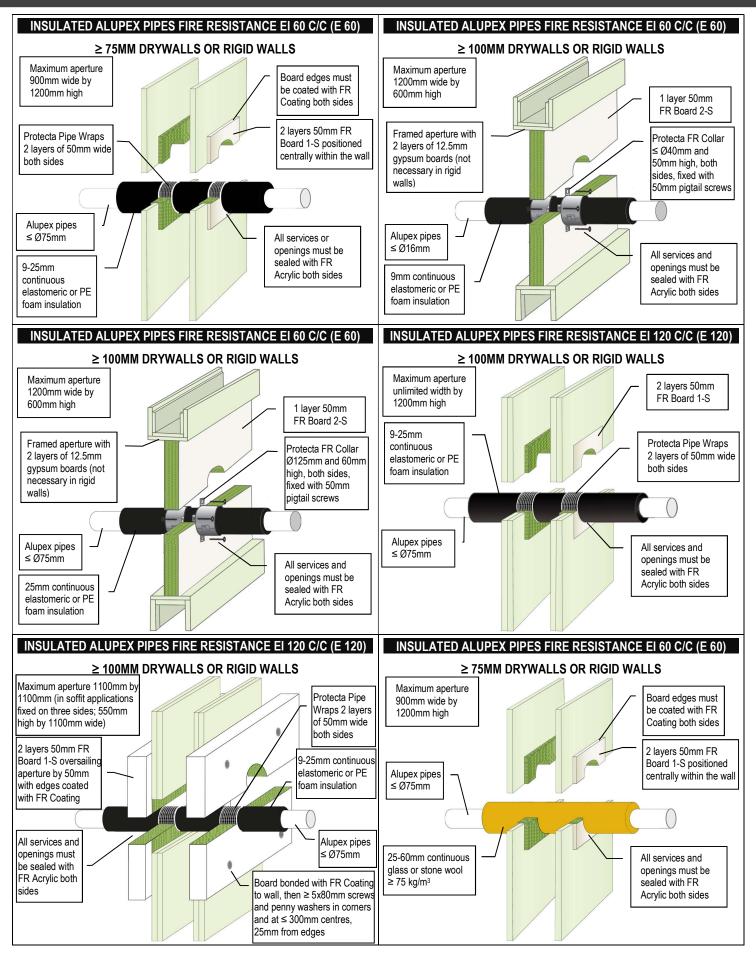
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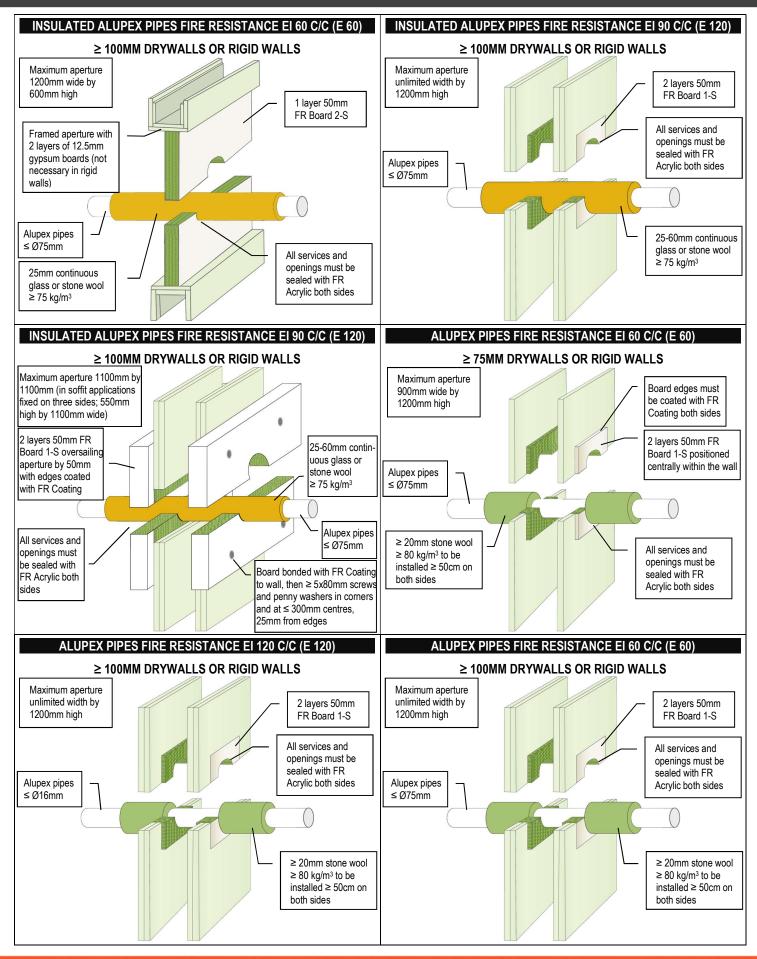
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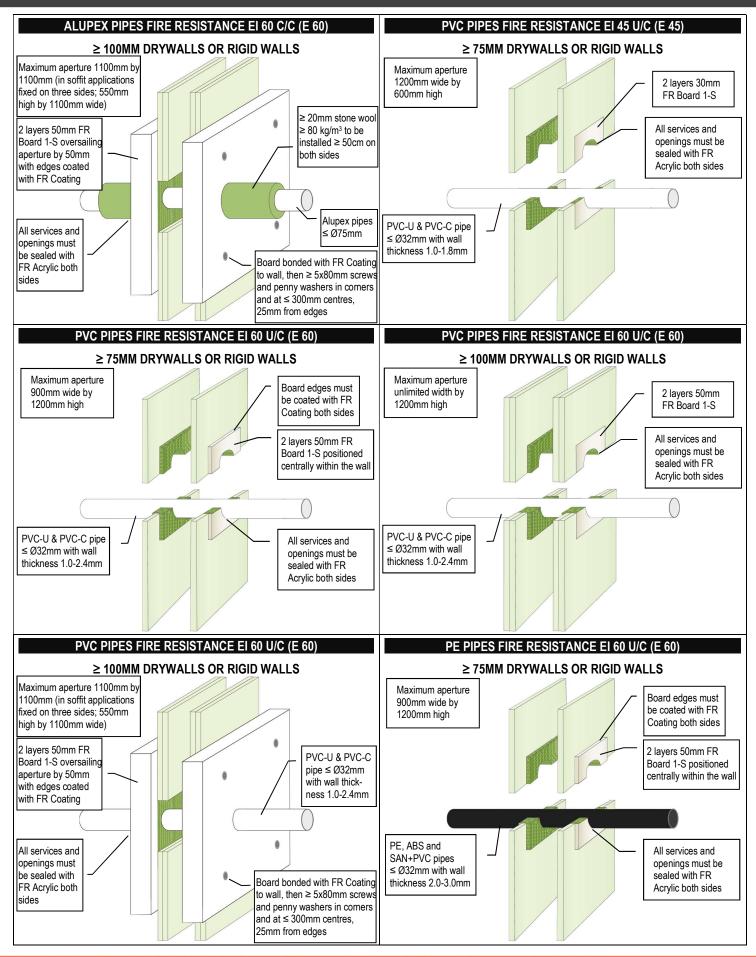


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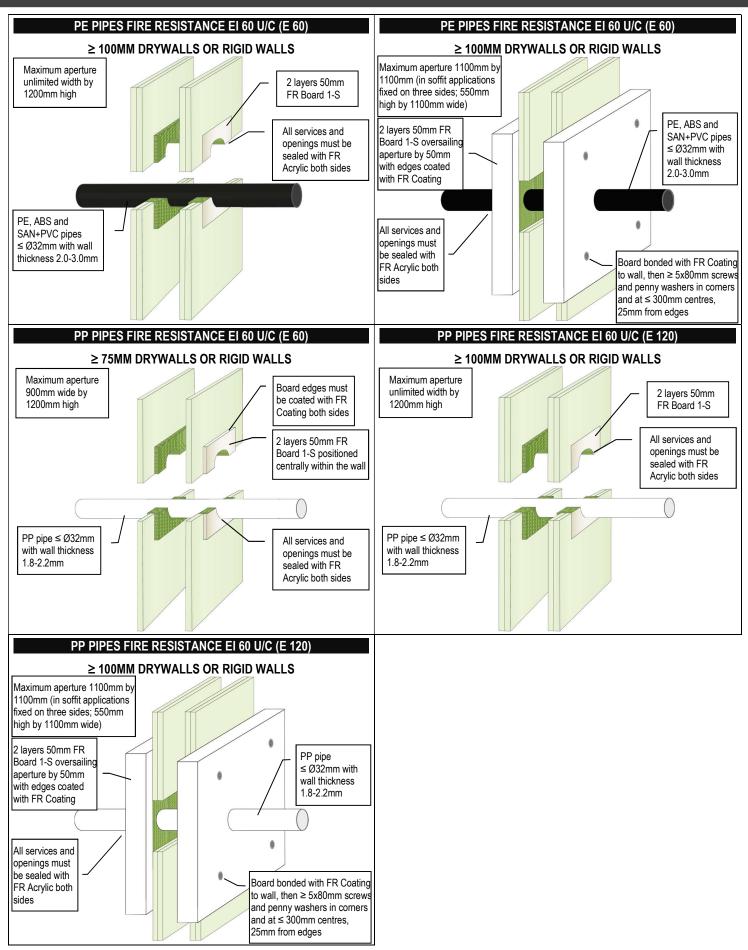




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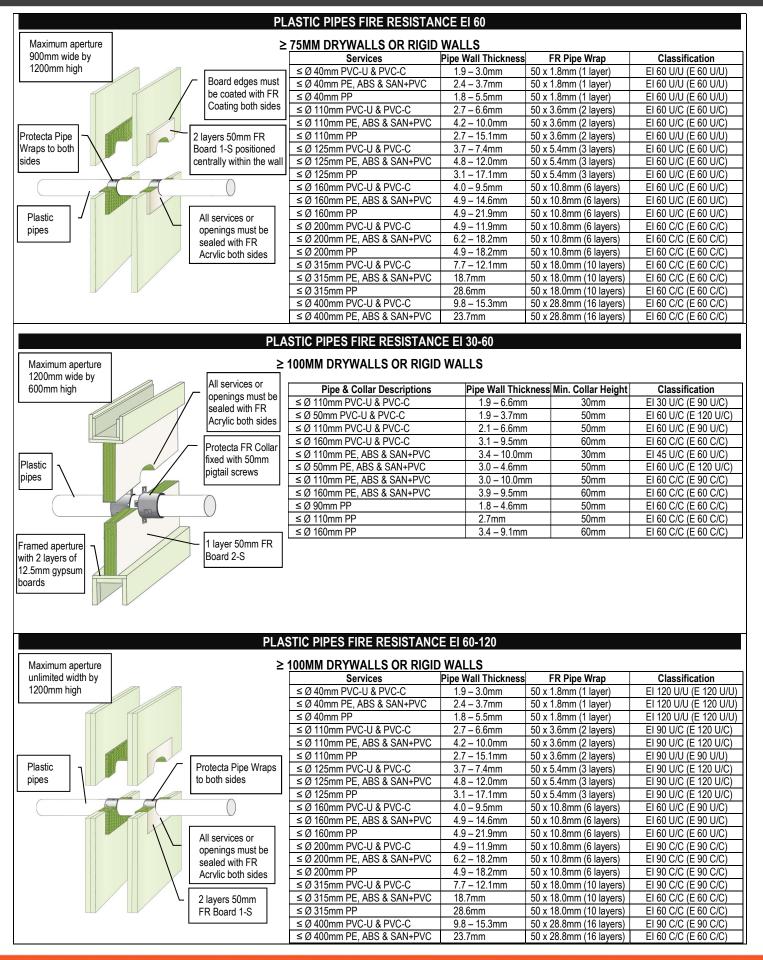


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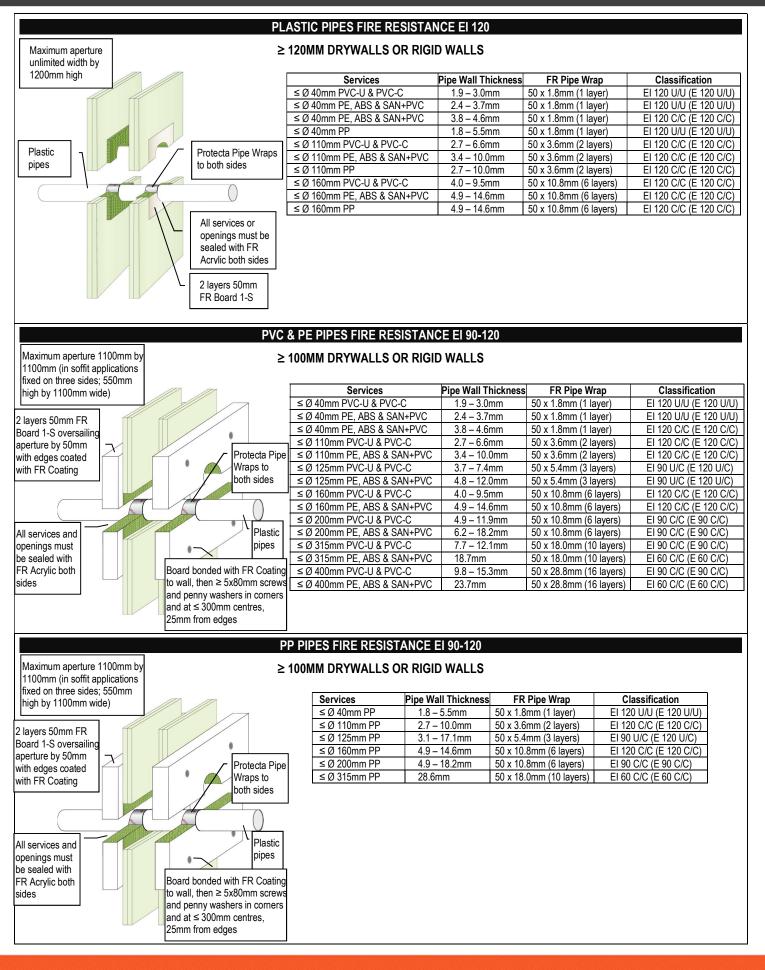




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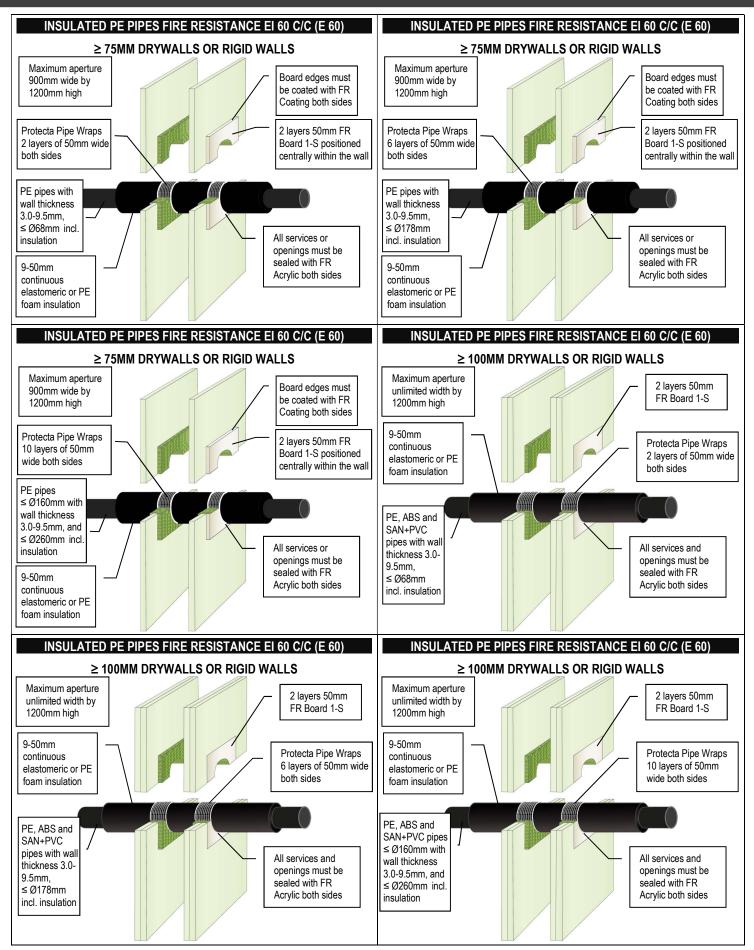
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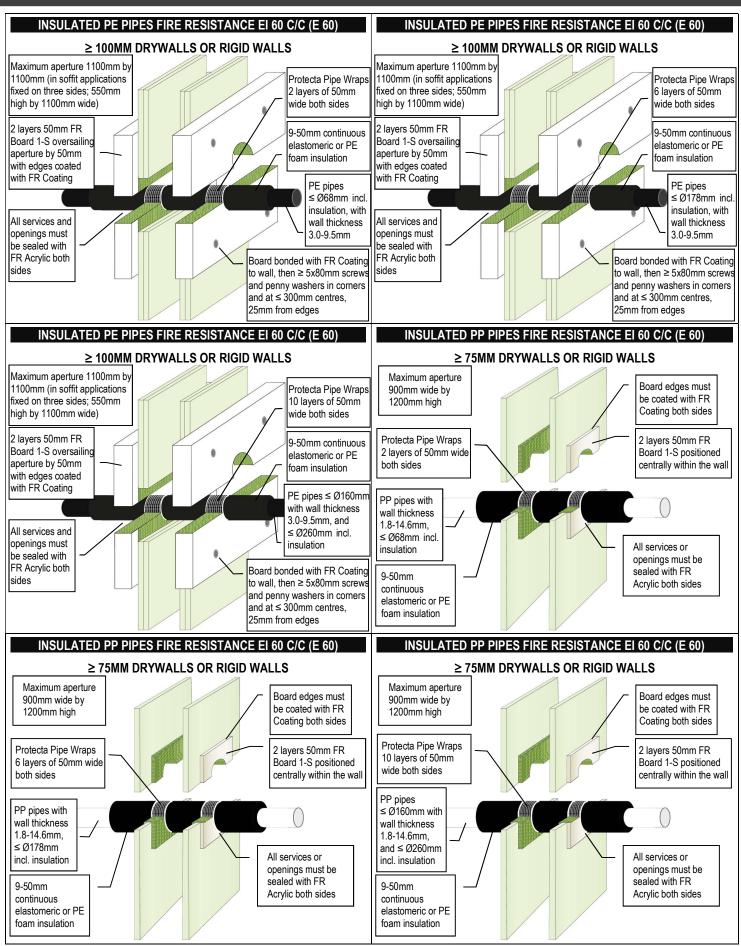
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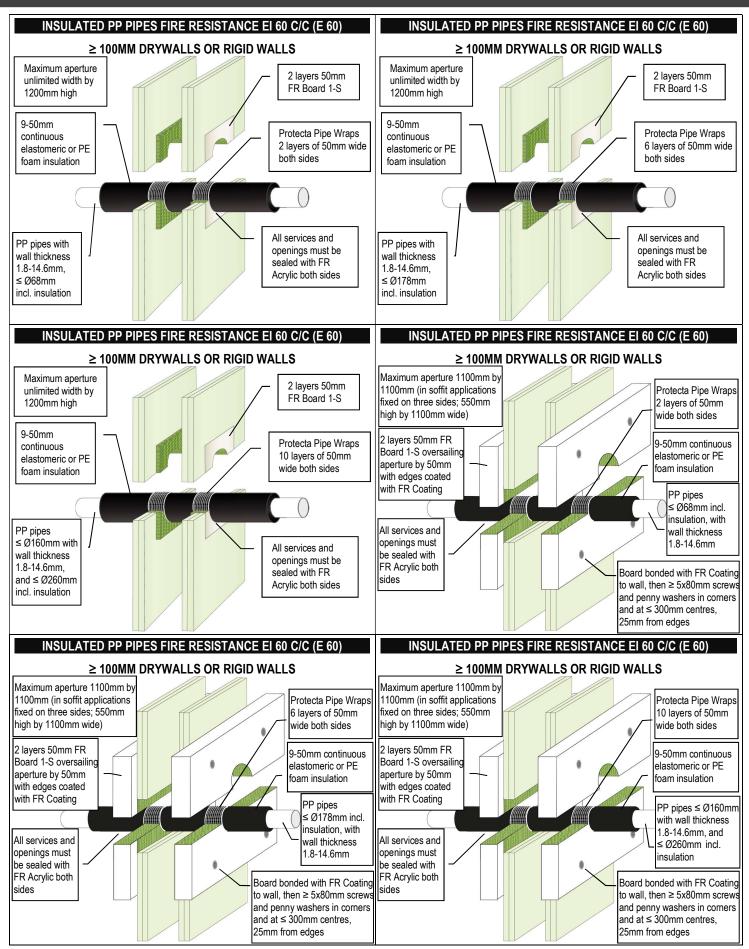
Detail Drawings Protecta® FR Board



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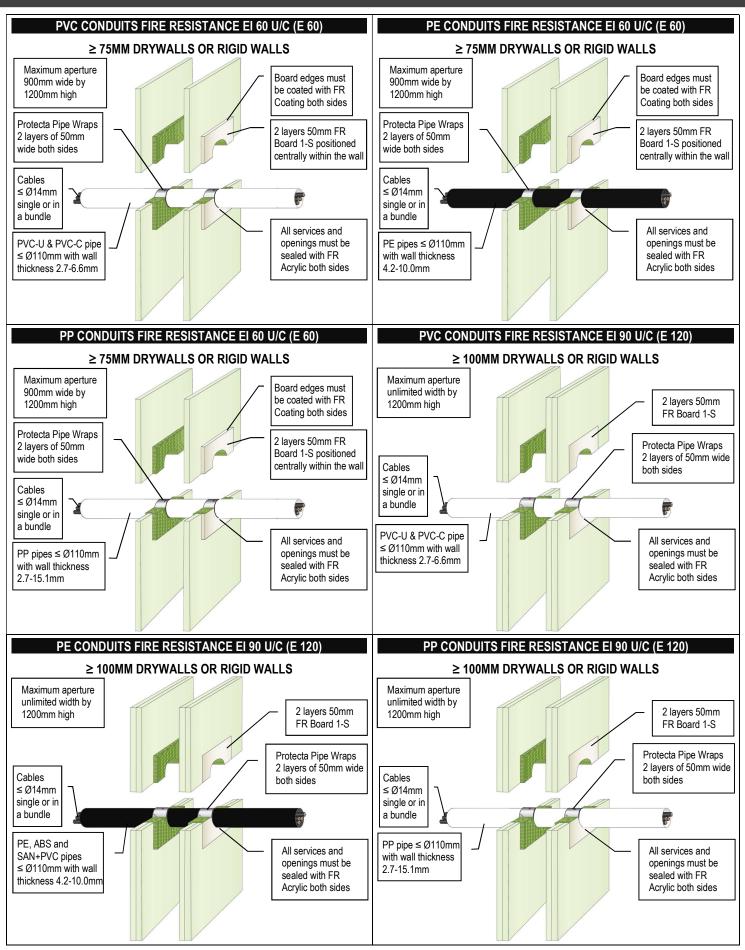


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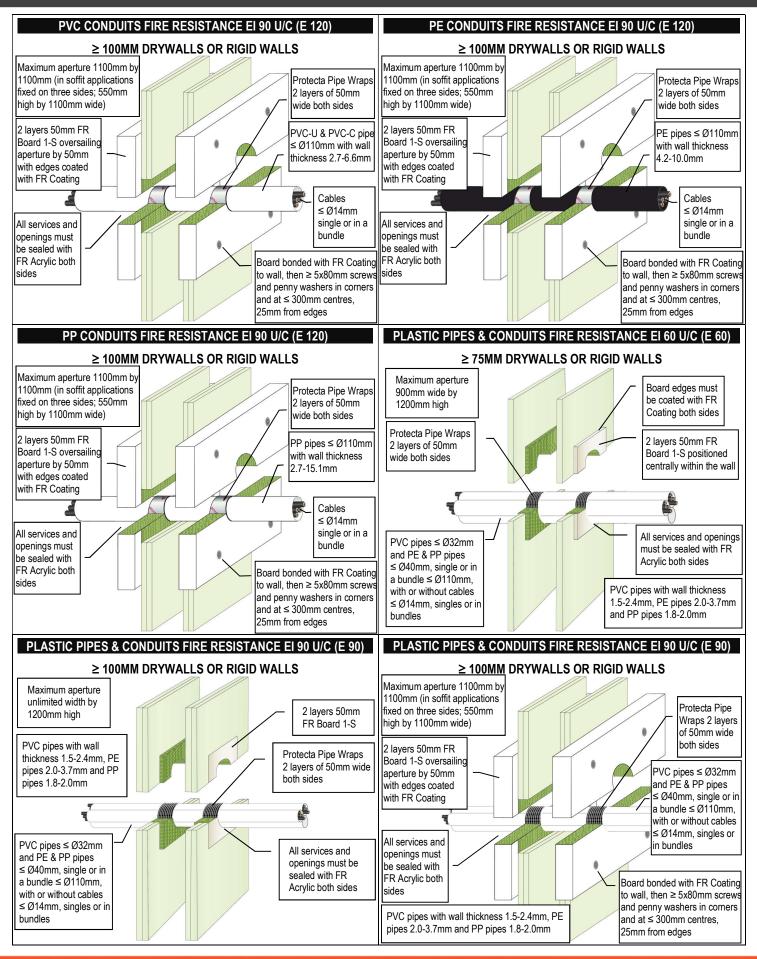
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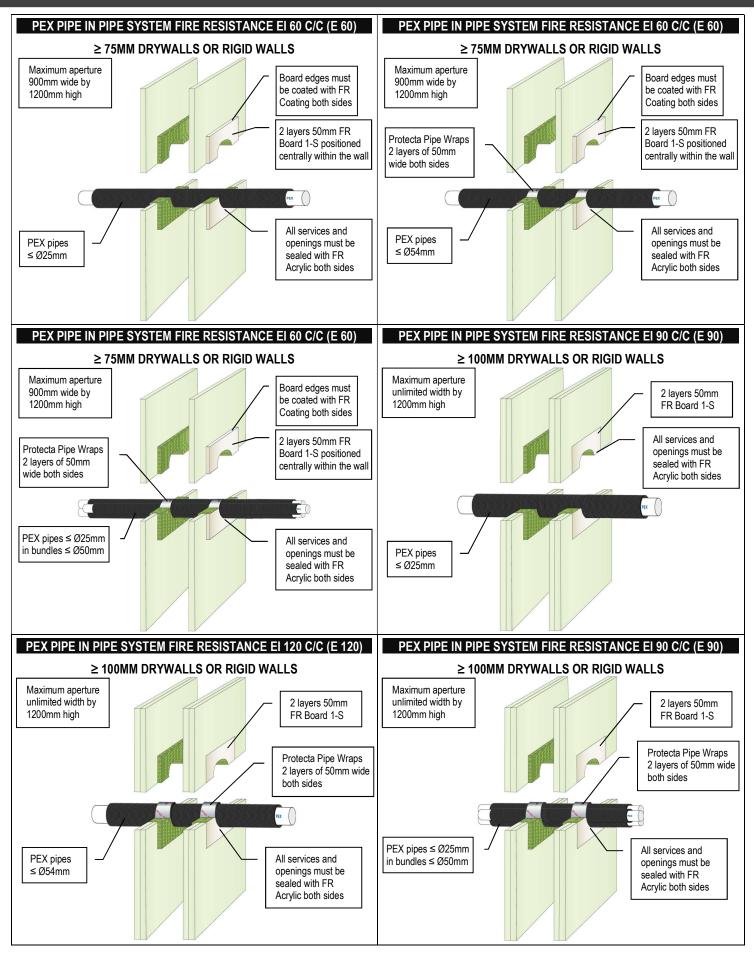
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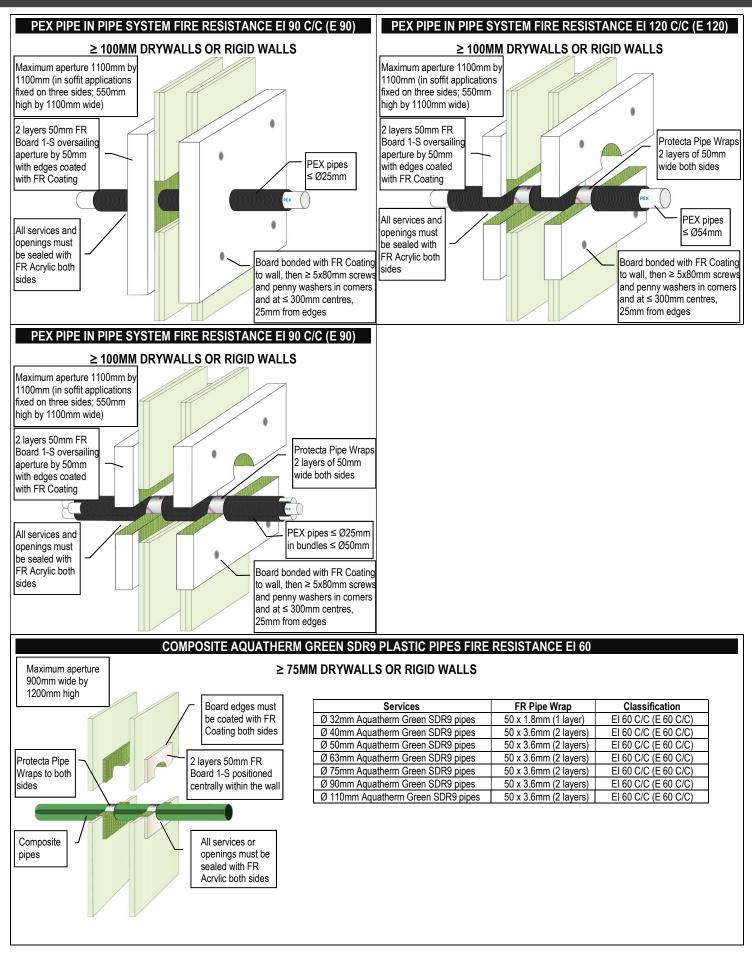
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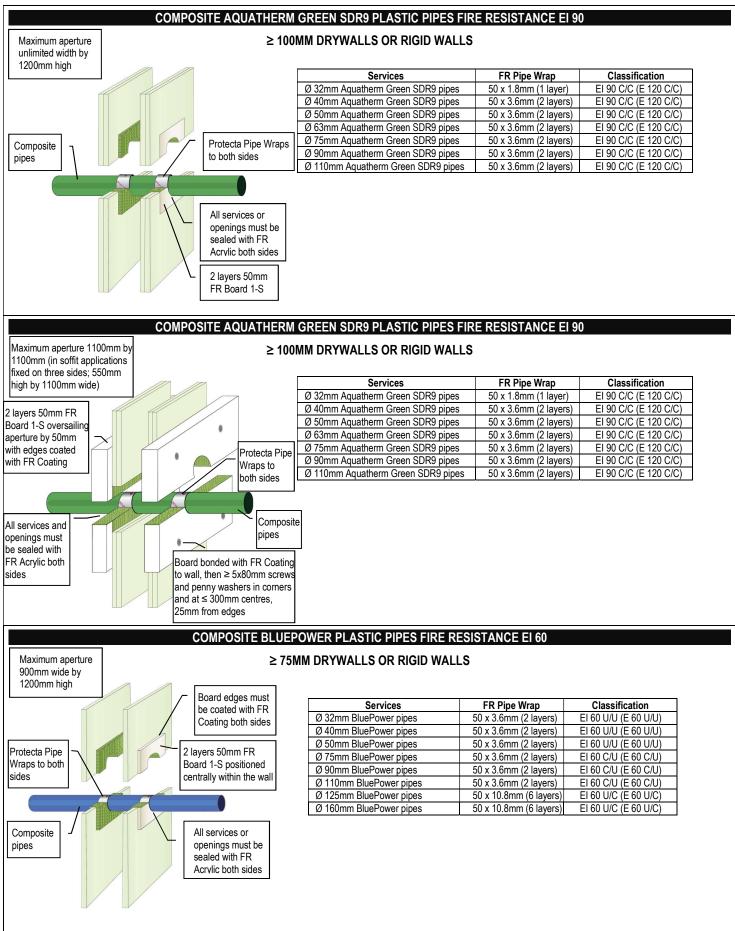


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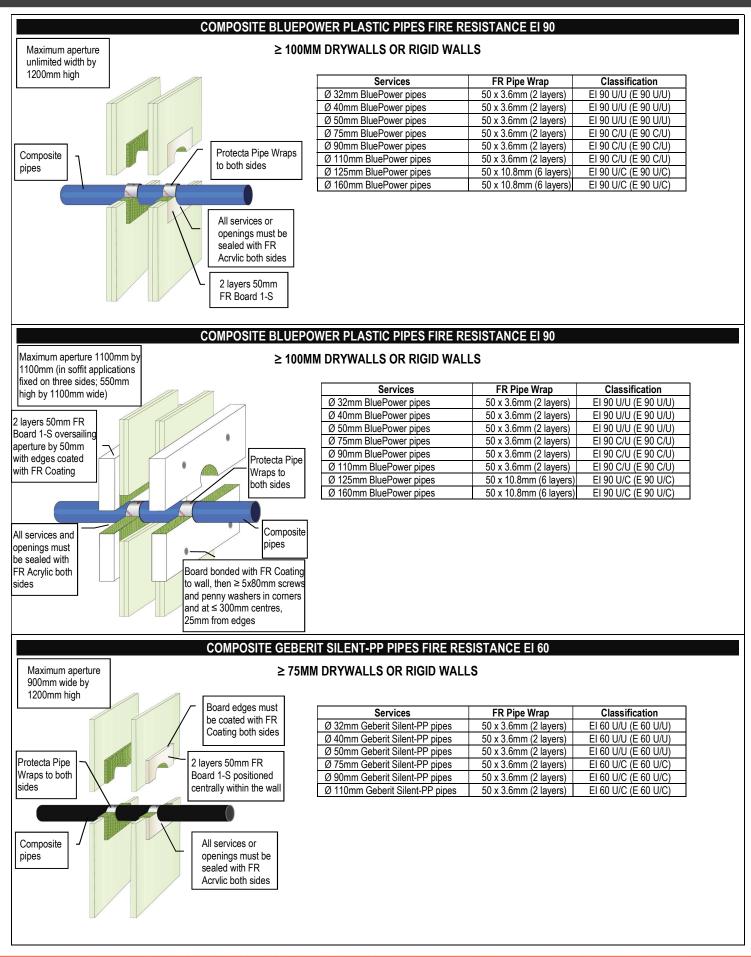




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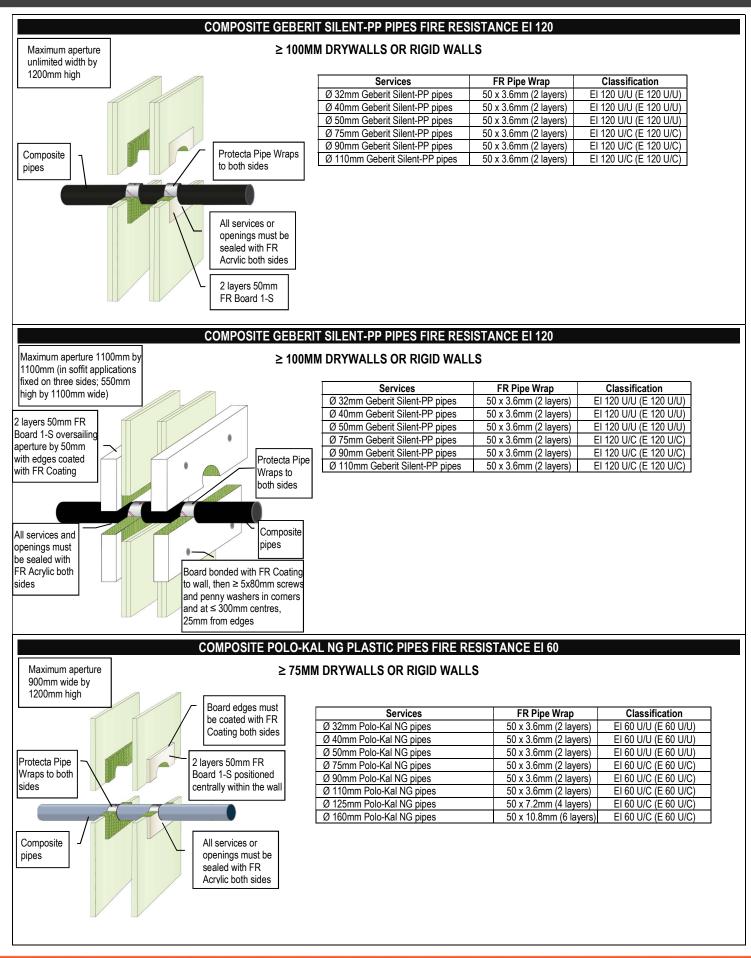
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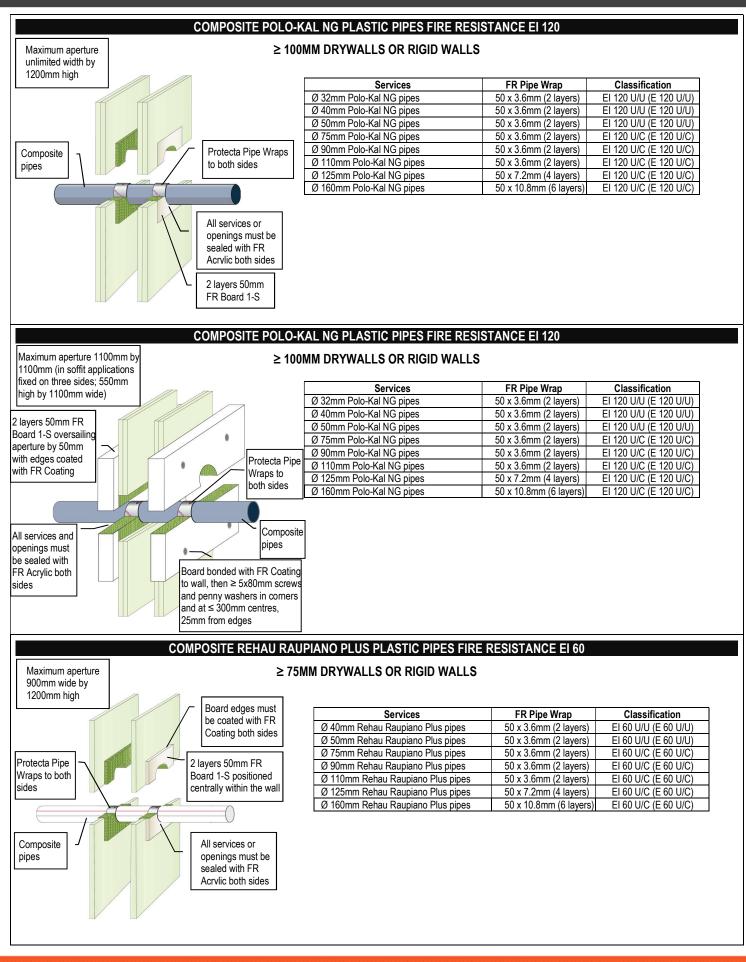
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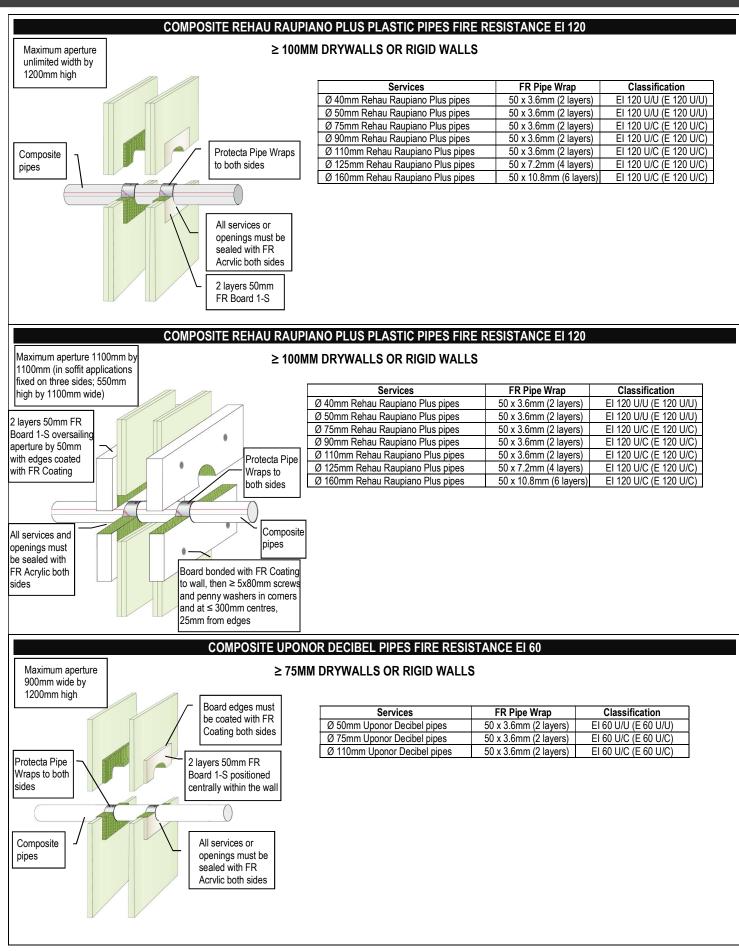


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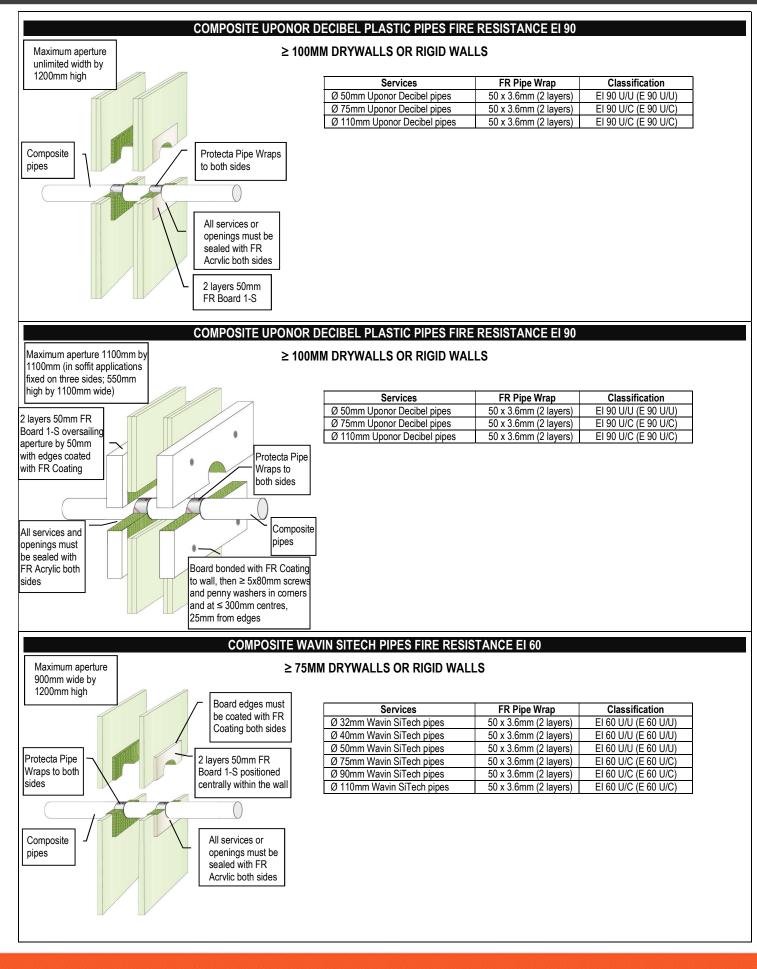


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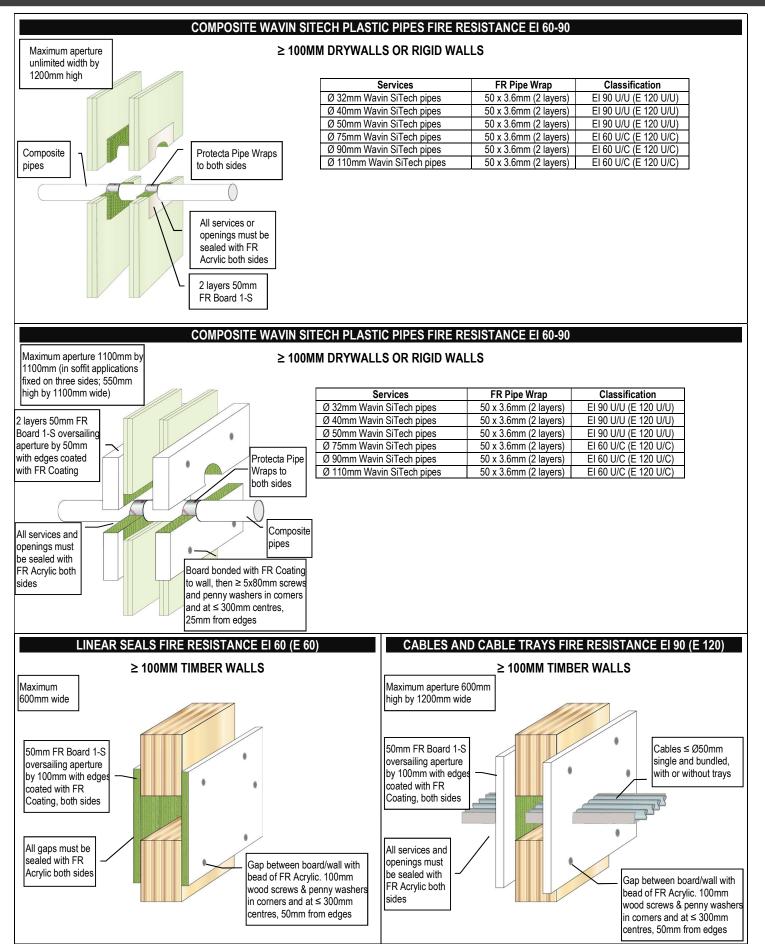


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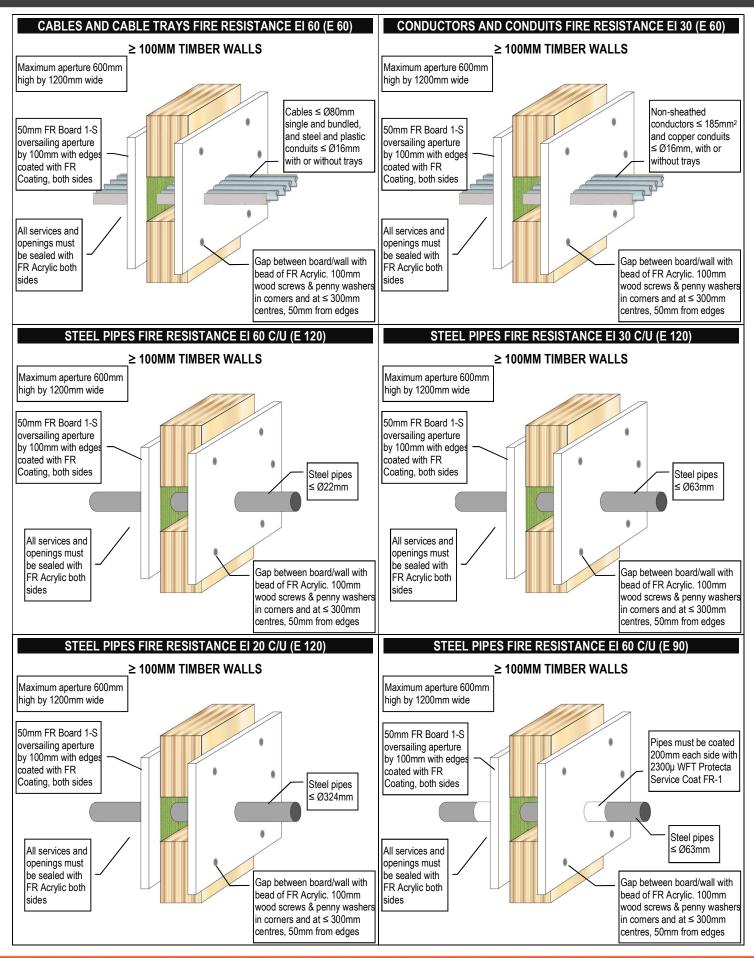




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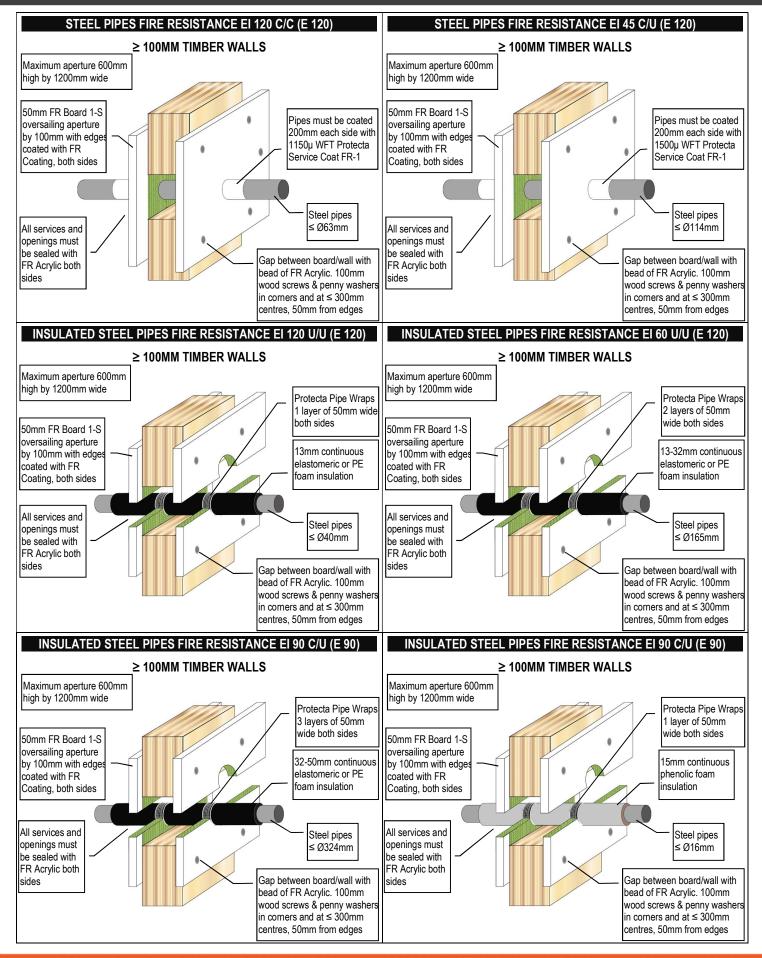


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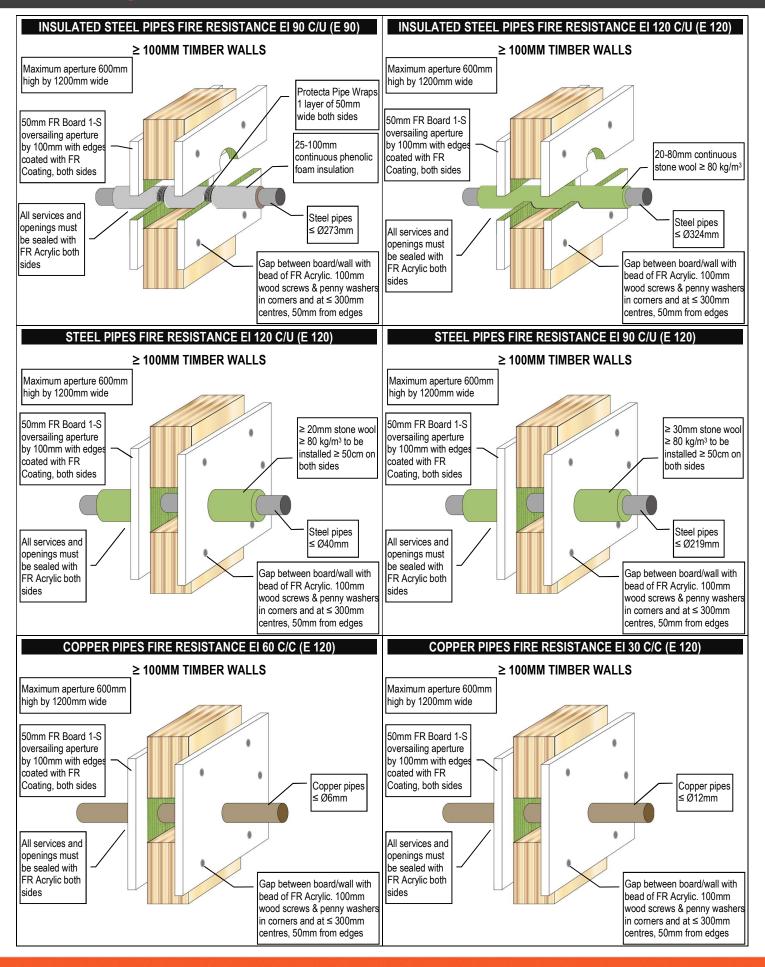


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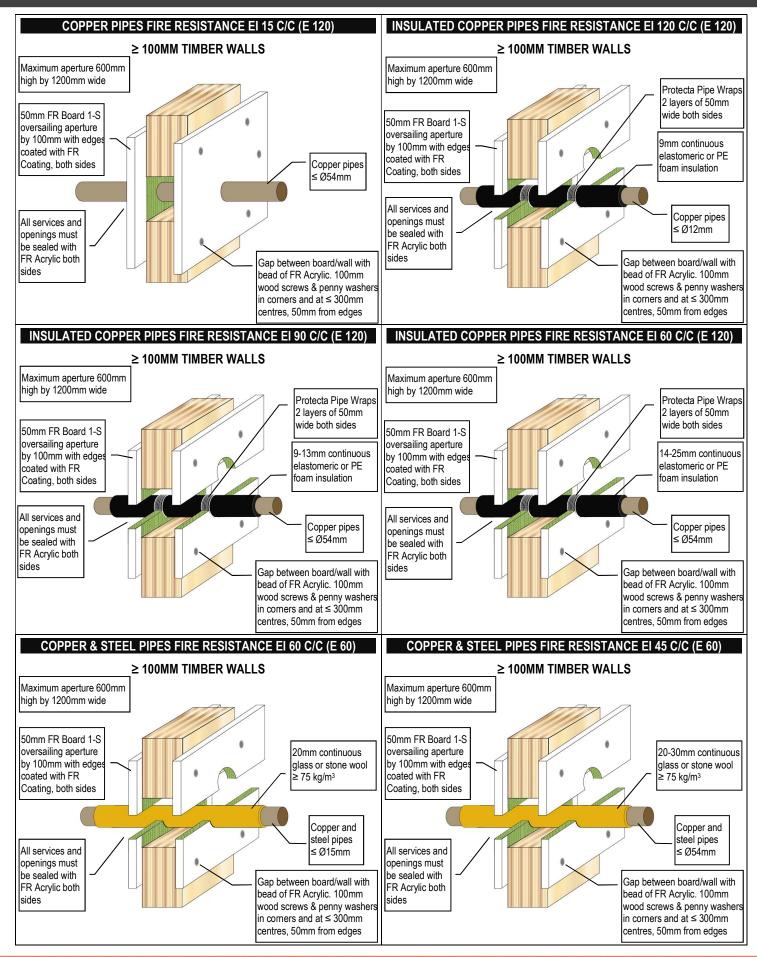
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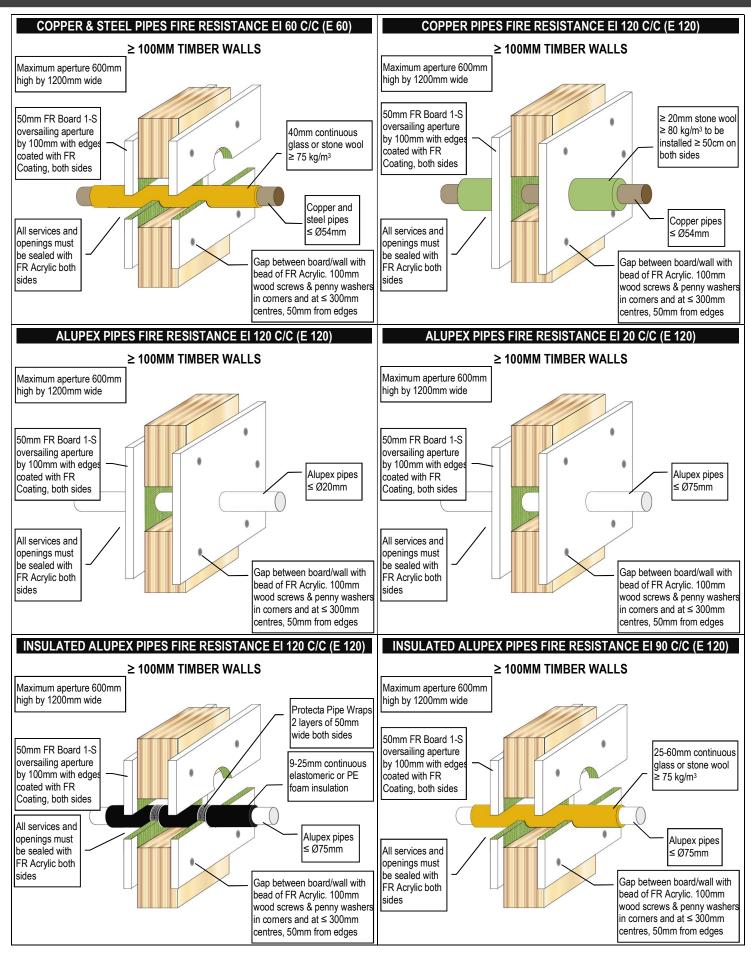


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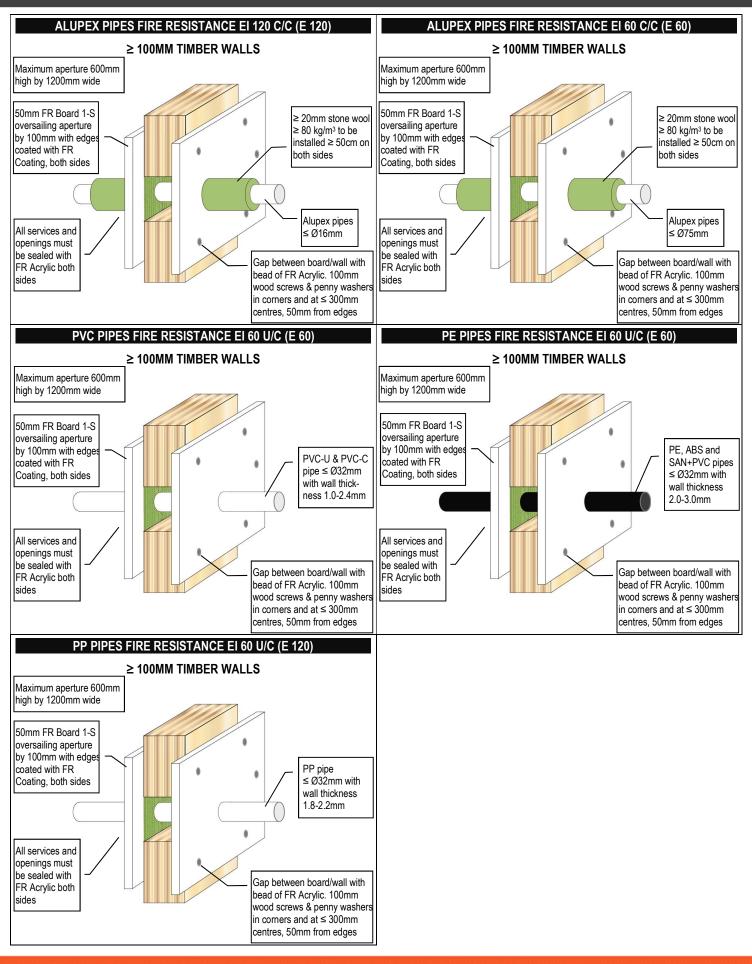


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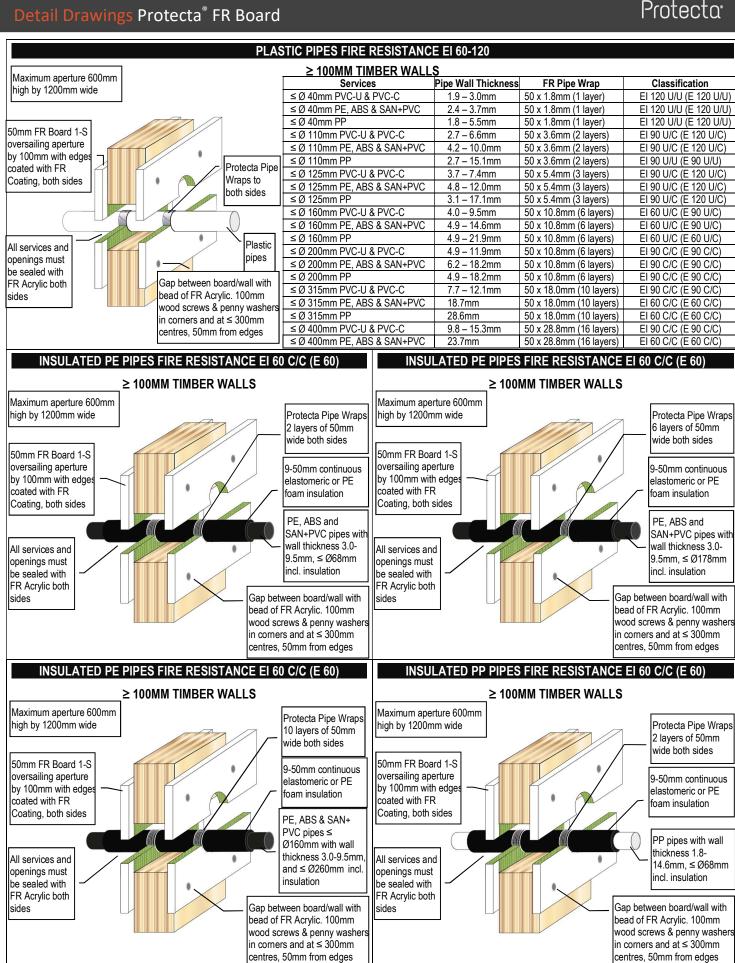




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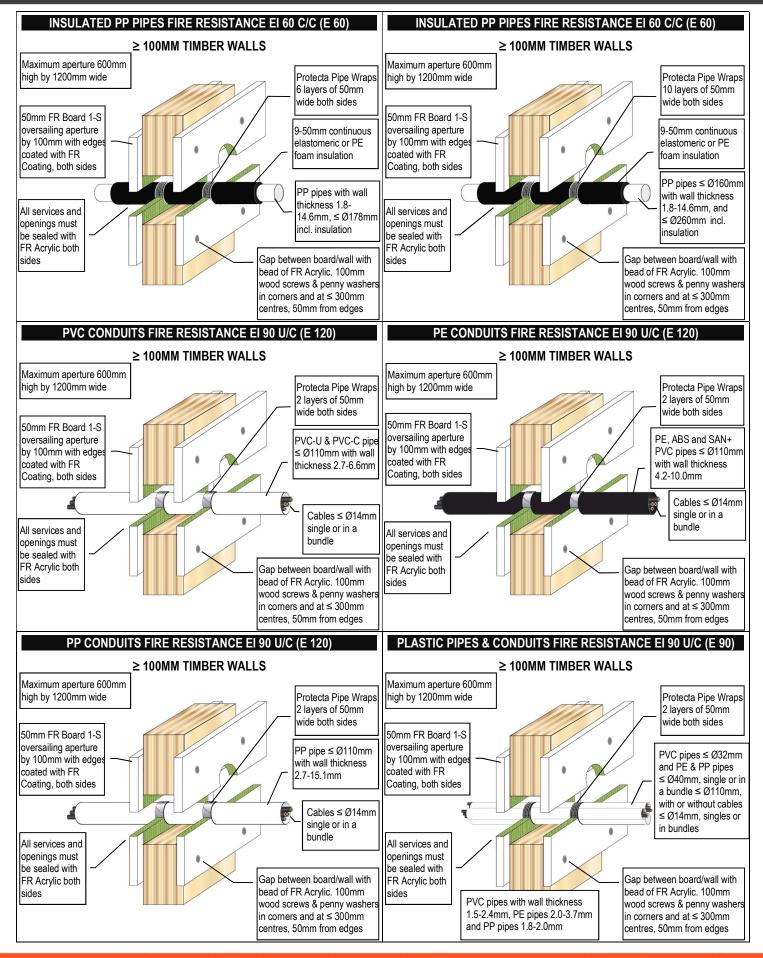


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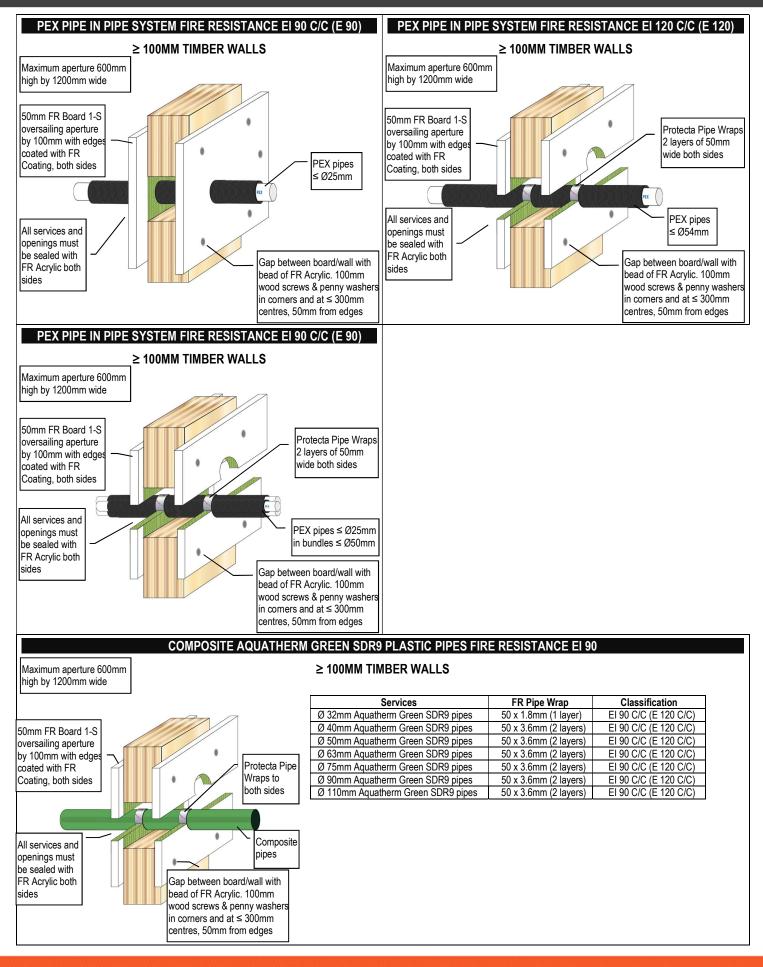




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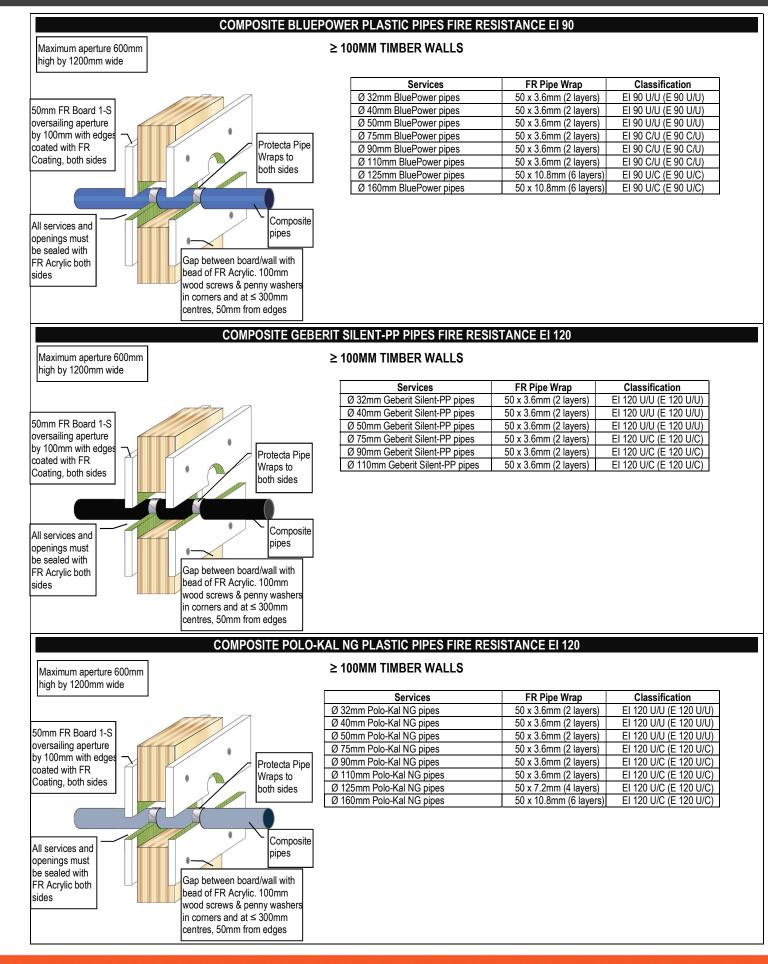


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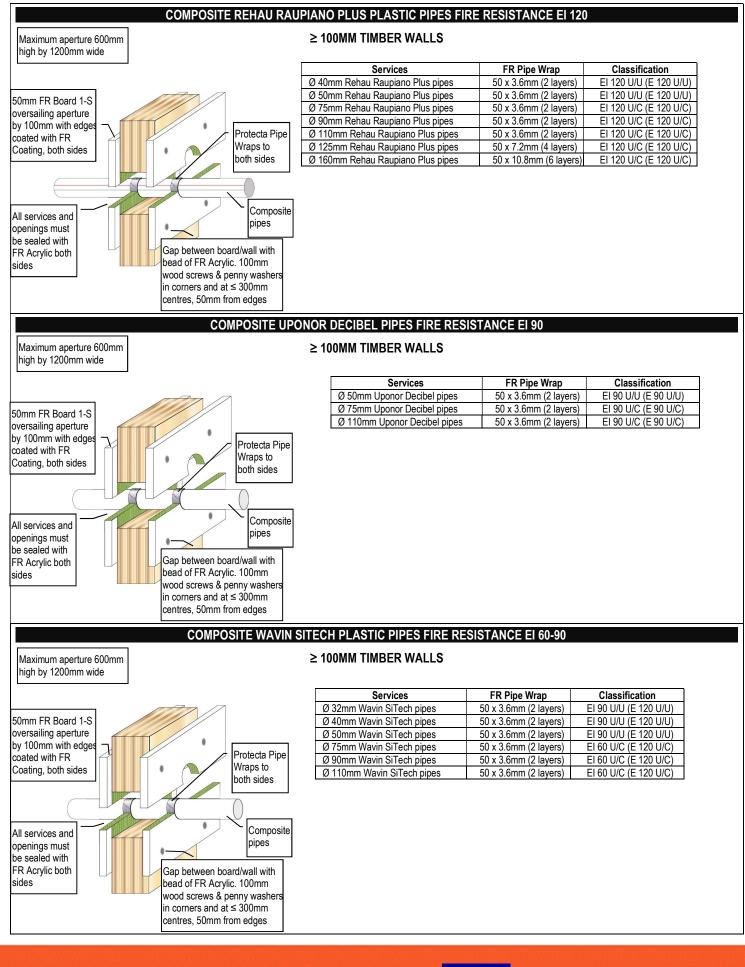


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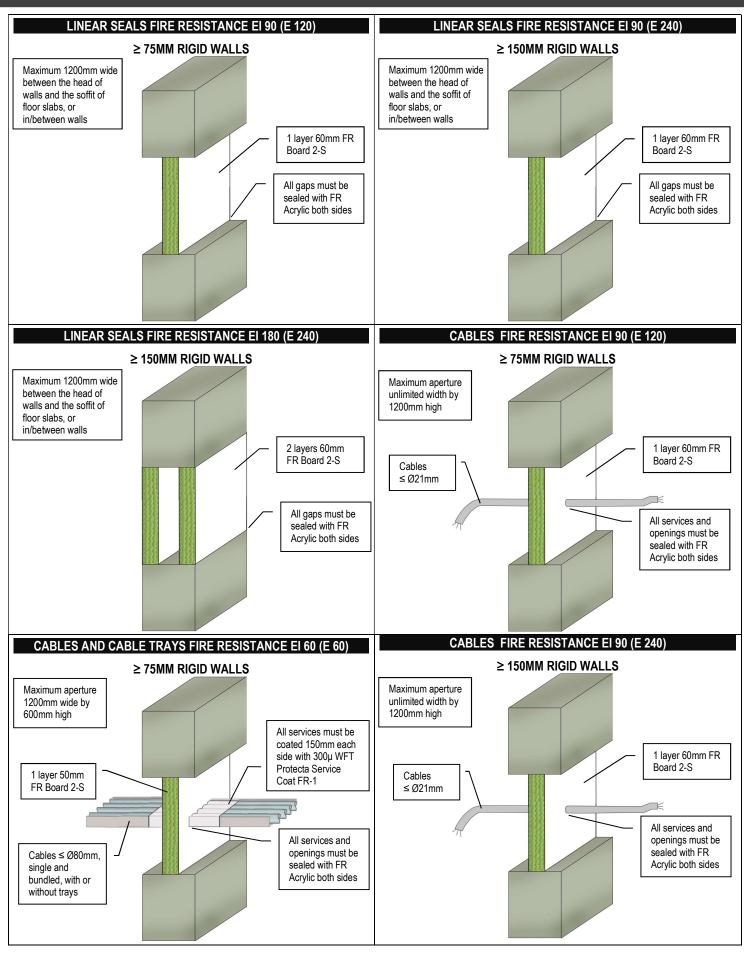


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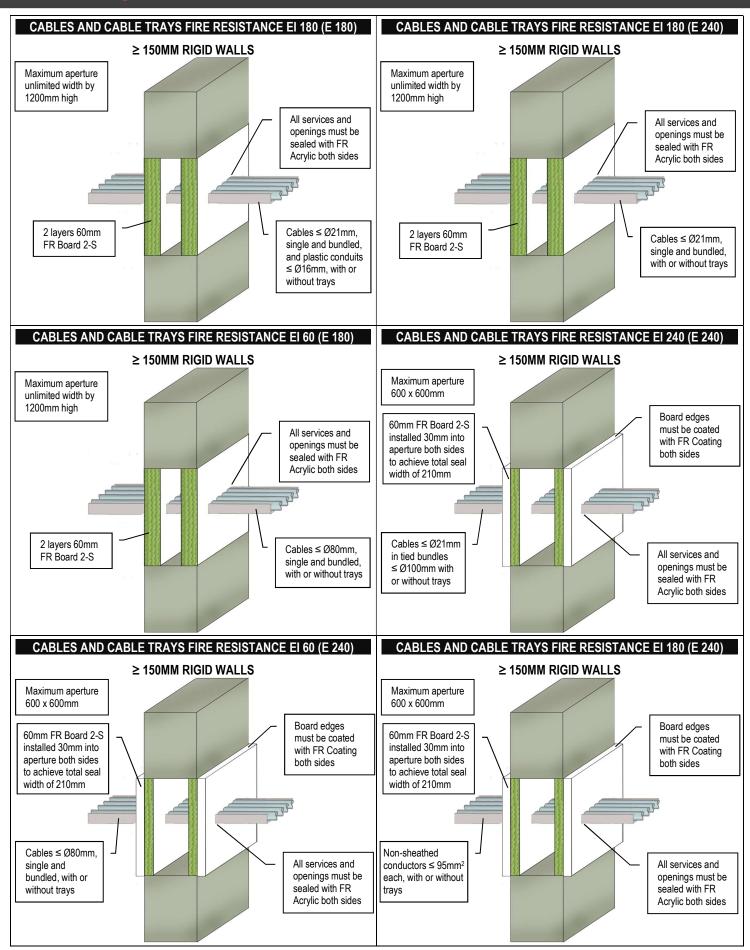


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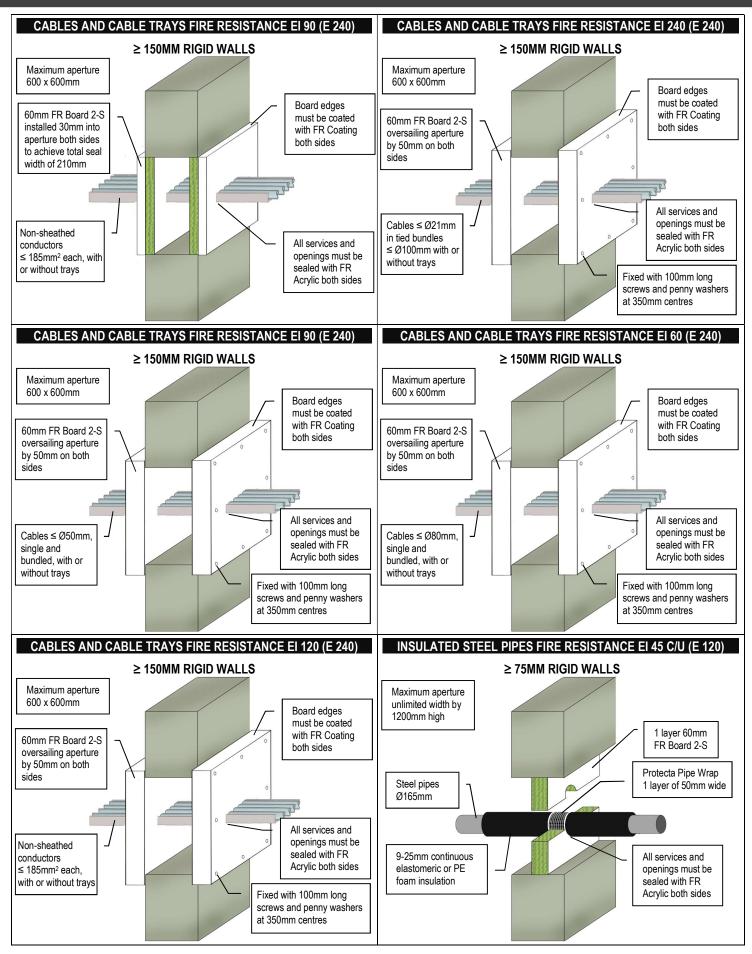


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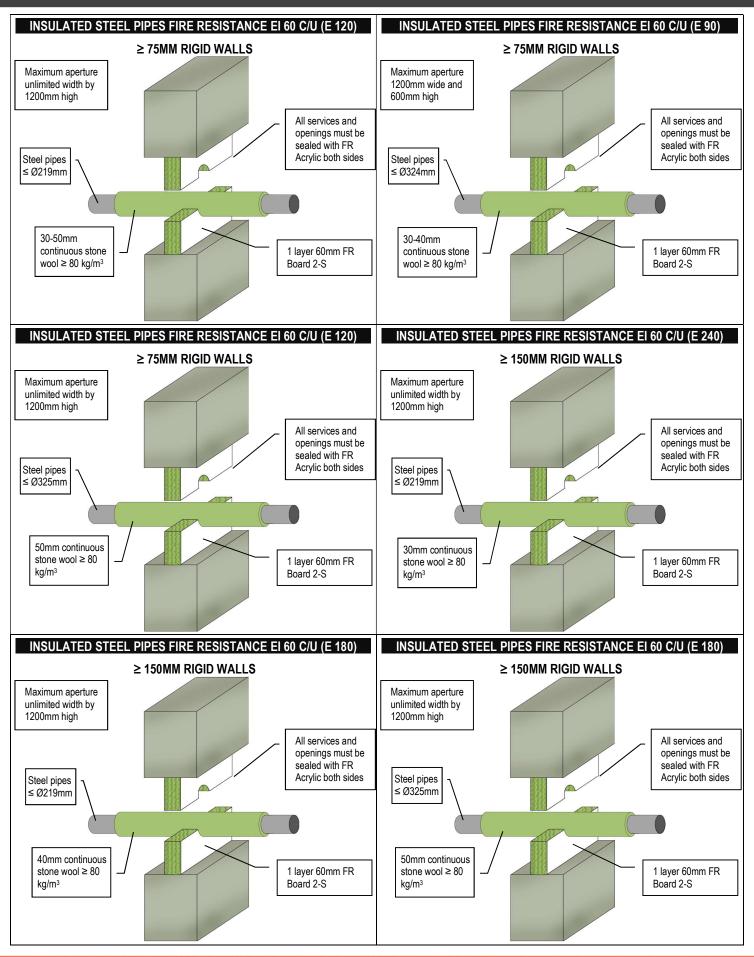
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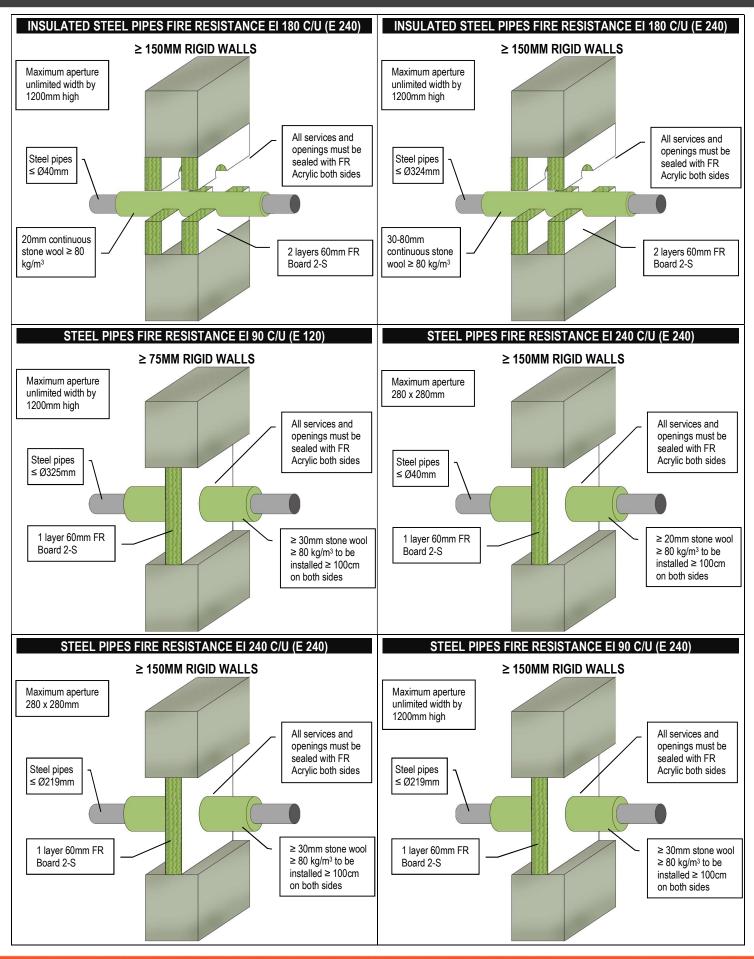
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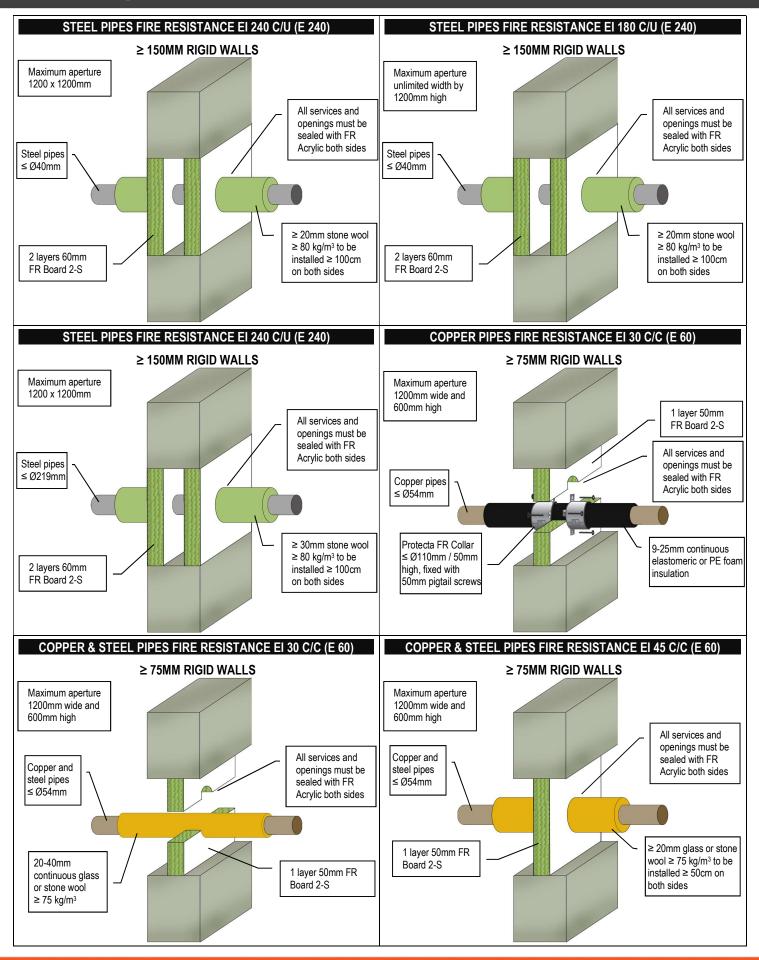


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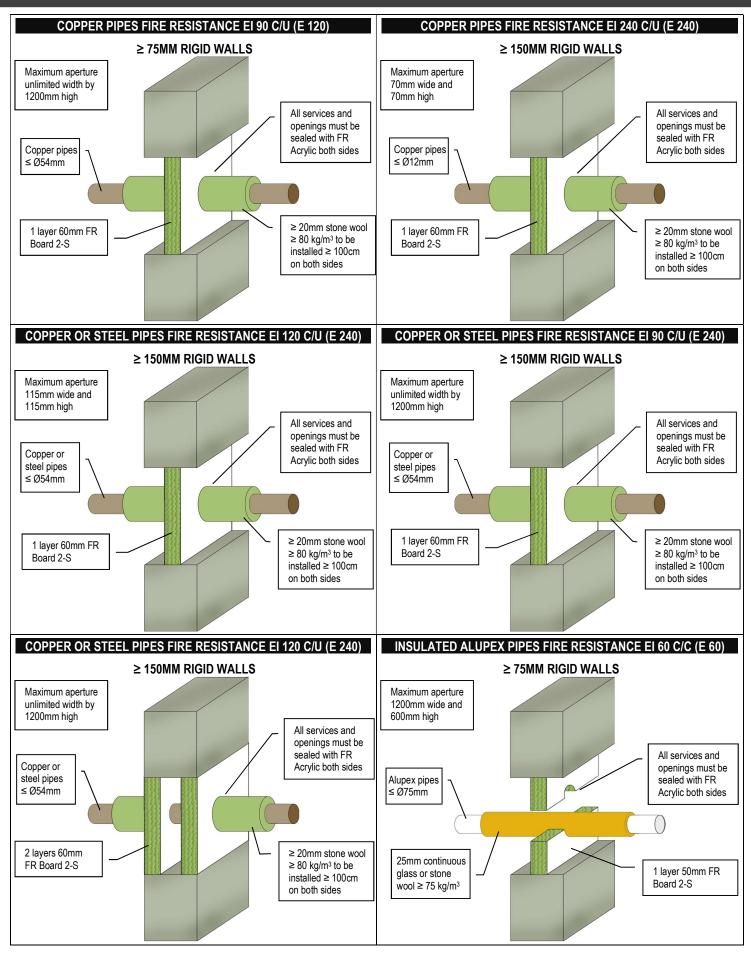
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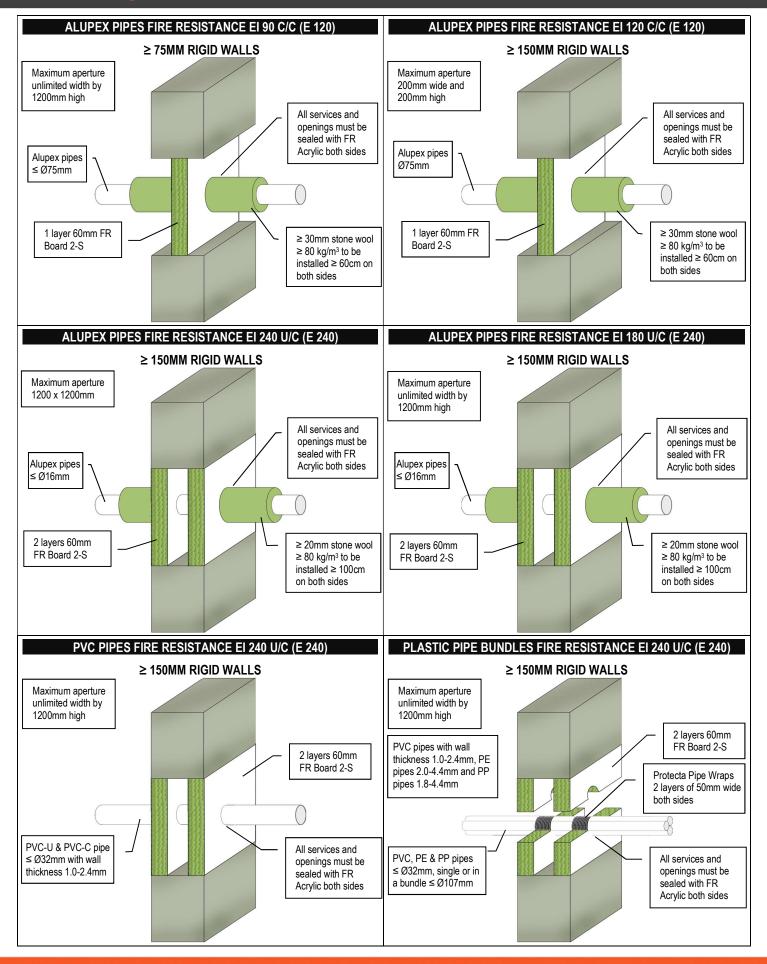
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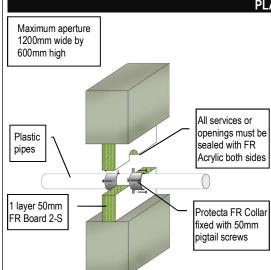
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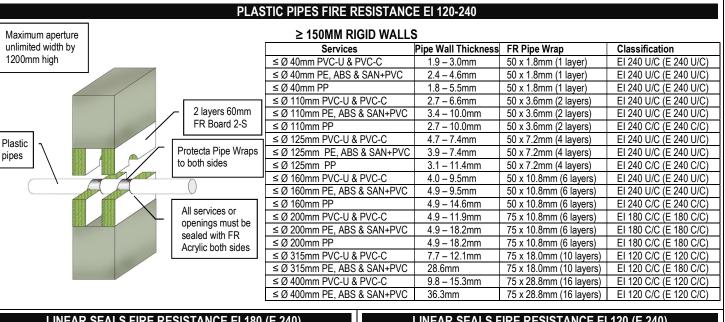


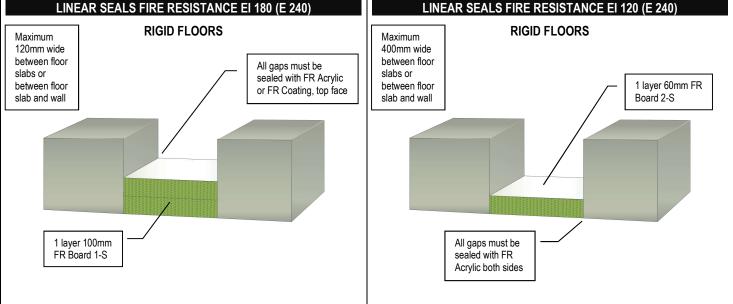
PLASTIC PIPES FIRE RESISTANCE EI 30-60

≥ 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)
≤Ø90mmPP	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)

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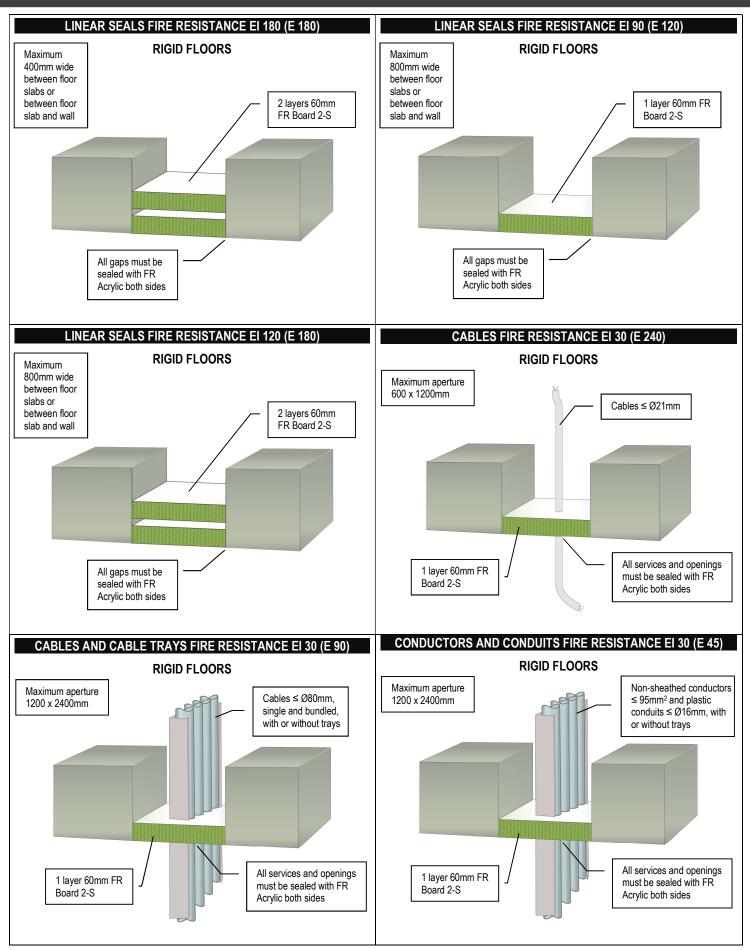




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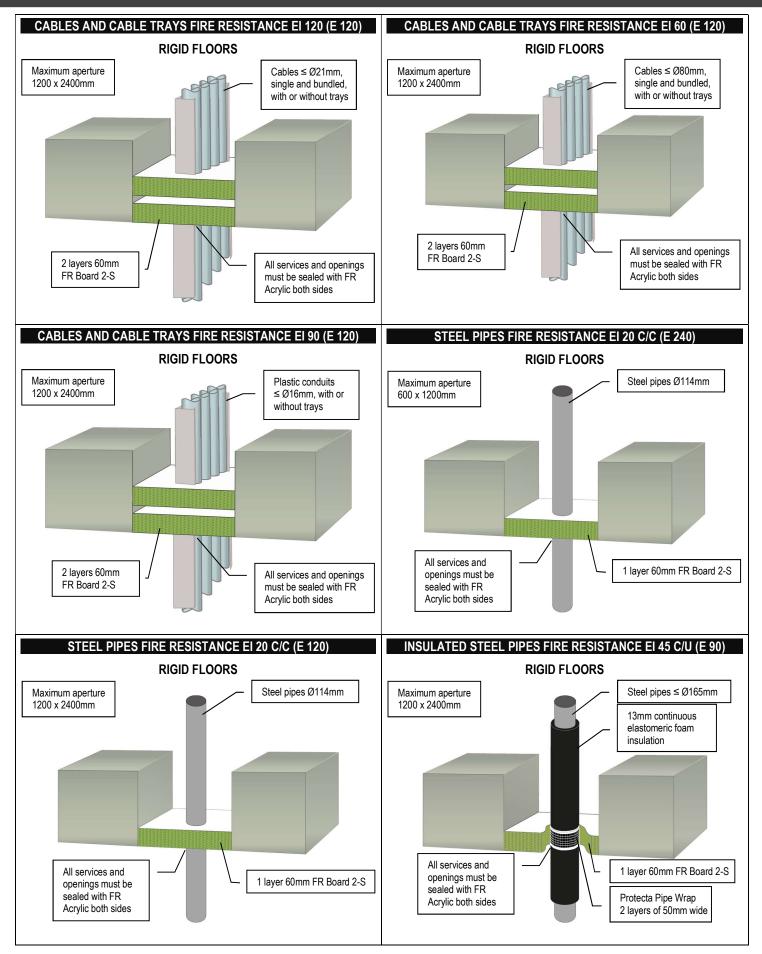


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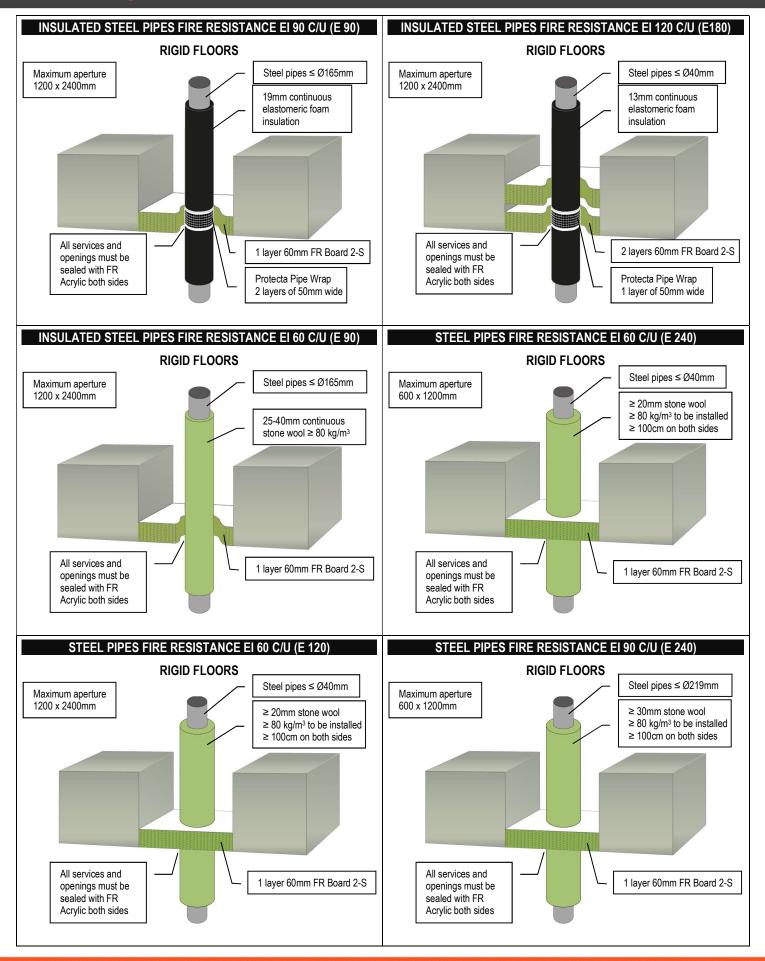
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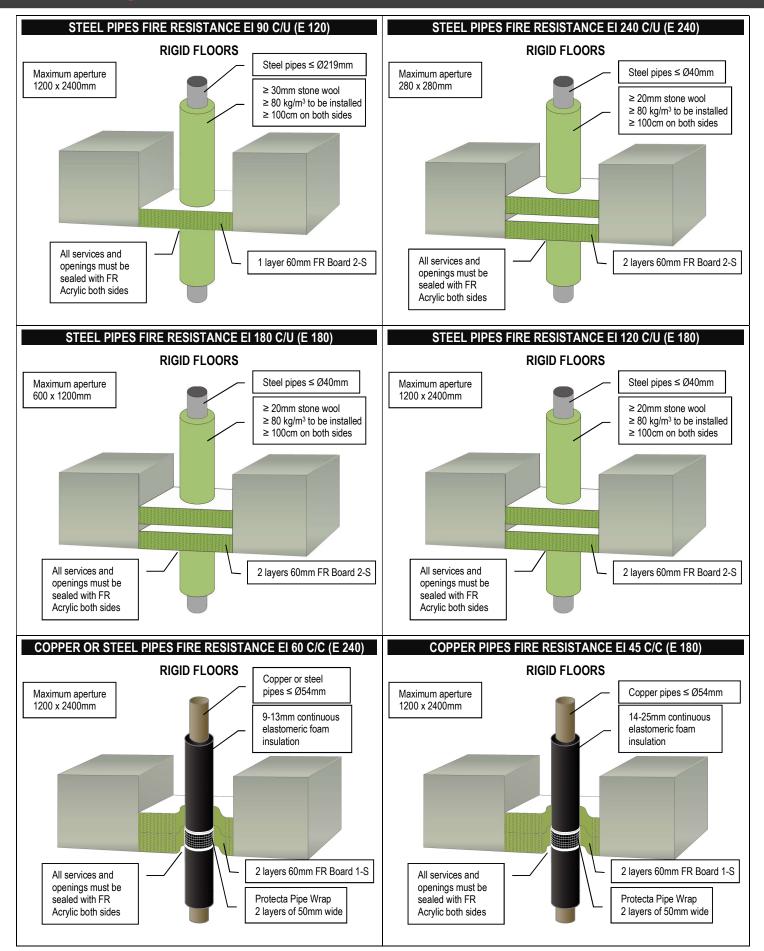
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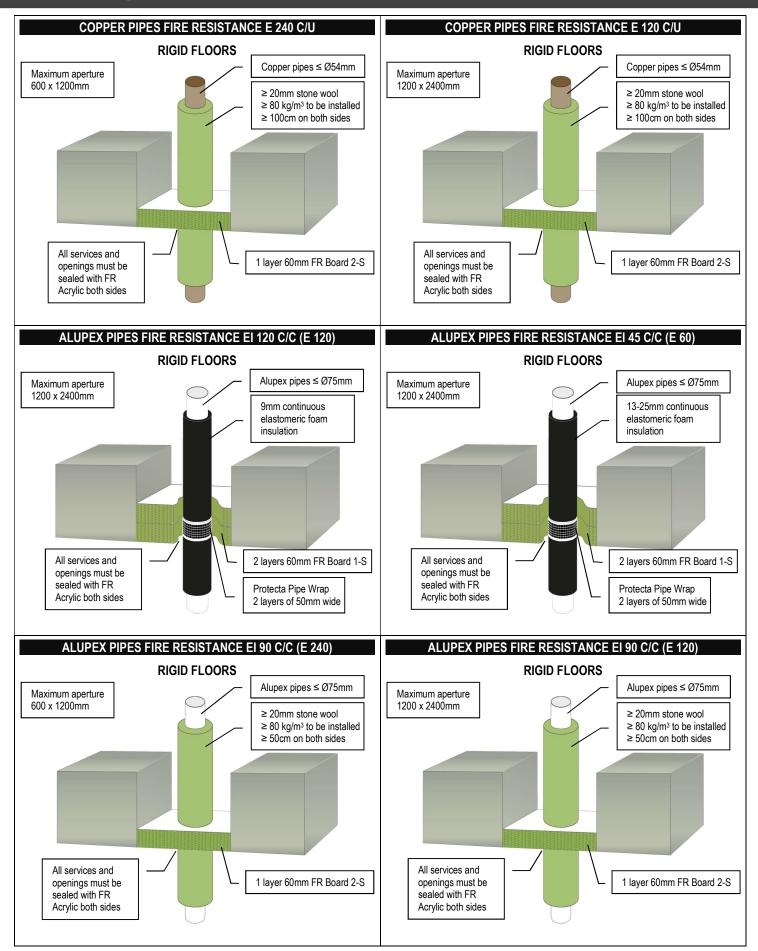
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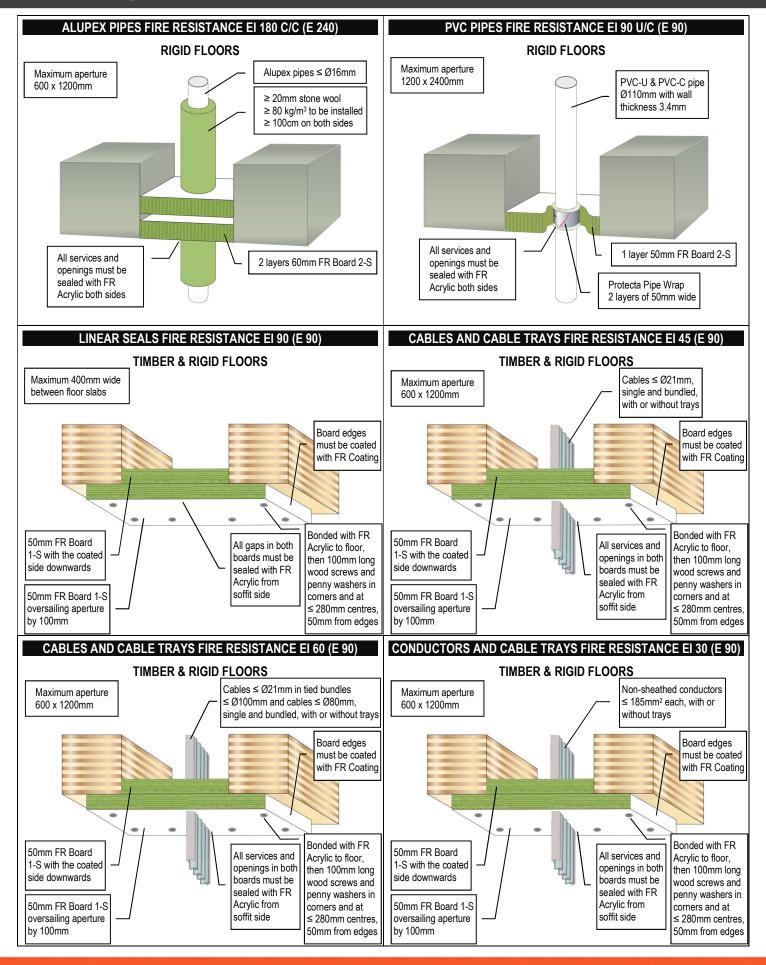
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STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90) STEEL PIPES FIRE RESISTANCE EI 60 C/U (E 90) Maximum aperture Maximum aperture **TIMBER & RIGID FLOORS TIMBER & RIGID FLOORS** 600 x 1200mm 600 x 1200mm Steel pipes Steel pipes ≤ Ø60mm ≤ Ø273mm ≥ 20mm glass or stone wool ≥ 25mm glass or stone wool \geq 75 kg/m³ to be installed \geq 75 kg/m³ to be installed ≥ 50cm on both sides ≥ 50cm on both sides Board edges Board edges must be coated must be coated with FR Coating with FR Coating Bonded with FR Bonded with FR 50mm FR Board 50mm FR Board All services and All services and Acrylic to floor, Acrylic to floor, 1-S with the coated 1-S with the coated openings in both openings in both then 100mm long then 100mm long side downwards side downwards boards must be boards must be wood screws and wood screws and sealed with FR sealed with FR penny washers in penny washers in 50mm FR Board 1-S 50mm FR Board 1-S Acrylic from Acrylic from corners and at corners and at oversailing aperture oversailing aperture soffit side soffit side ≤ 280mm centres ≤ 280mm centres. by 100mm by 100mm 50mm from edges 50mm from edges COPPER & STEEL PIPES FIRE RESISTANCE EI 90 C/C (E 90) ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 90) Maximum aperture Maximum aperture **TIMBER & RIGID FLOORS TIMBER & RIGID FLOORS** 600 x 1200mm 600 x 1200mm Copper and steel Alupex pipes pipes ≤ Ø54mm ≤ Ø16mm ≥ 20mm glass or stone wool ≥ 20mm glass or stone wool \geq 75 kg/m³ to be installed ≥ 75 kg/m3 to be installed ≥ 50cm on both sides ≥ 50cm on both sides Board edges Board edges must be coated must be coated with FR Coating with FR Coating Bonded with FR Bonded with FR 50mm FR Board 50mm FR Board All services and All services and Acrylic to floor, Acrylic to floor, 1-S with the coated 1-S with the coated openings in both openings in both then 100mm long then 100mm long side downwards side downwards boards must be boards must be wood screws and wood screws and sealed with FR sealed with FR penny washers in penny washers in 50mm FR Board 1-S 50mm FR Board 1-S Acrvlic from Acrylic from corners and at corners and at oversailing aperture oversailing aperture soffit side soffit side ≤ 280mm centres. ≤ 280mm centres, by 100mm by 100mm 50mm from edges 50mm from edges ALUPEX PIPES FIRE RESISTANCE EI 60 C/C (E 90) PEX PIPE IN PIPES SYSTEM FIRE RESISTANCE EI 90 (E 90) Maximum aperture **TIMBER & RIGID FLOORS TIMBER & RIGID FLOORS** 600 x 1200mm PEX pipes Alupex pipes Maximum aperture ≤ Ø75mm ≤ Ø25mm ≥ 25mm glass or stone wool 600 x 1200mm \geq 75 kg/m³ to be installed \geq 50cm on both sides Board edges Board edges must be coated must be coated with FR Coating with FR Coating Bonded with FR Bonded with FR 50mm FR Board 50mm FR Board All services and Acrylic to floor, Acrylic to floor, 1-S with the coated 1-S with the coated openings in both All services and then 100mm long then 100mm long side downwards side downwards boards must be openings in both wood screws and wood screws and sealed with FR boards must be penny washers in penny washers in 50mm FR Board 1-S 50mm FR Board 1-S Acrylic from sealed with FR corners and at corners and at oversailing aperture oversailing aperture Acrylic from soffit side ≤ 280mm centres ≤ 280mm centres. by 100mm by 100mm soffit side 50mm from edges 50mm from edges

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Drywalls and rigid walls

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Linear seals	75mm	Normal	-	2/1-2
ű	100mm	Normal	-	2/3-4
Cables and cable trays	75mm	Normal	-	2 / 5 to 3 / 1
"	100mm	Framed	-	3 / 2-3
"	100mm	Normal	-	3 / 4-6
"	100mm	Pattress	-	4 / 1
Steel pipes	75mm	Normal	-	4 / 2-3
ű	75mm	Normal	Coat-back	4 / 4-5
"	100mm	Normal	-	4 / 6 to 5 / 1
ű	100mm	Normal	Coat-back	5 / 2 to 5 / 4
"	120mm	Normal	-	5 / 5-6
"	100mm	Pattress	-	6/1
ű	100mm	Pattress	Coat-back	6/2
"	75mm	Normal	Elastomeric & PE, continuous	6 / 3-4
ű	100mm	Normal	Elastomeric & PE, continuous	6 / 5 to 7 / 1
ű	100mm	Pattress	Elastomeric & PE, continuous	7 / 2-3
ű	75mm	Normal	Phenolic, continuous	7 / 4-5
ű	100mm	Normal	Phenolic, continuous	7 / 6 to 8 / 1
ű	100mm	Pattress	Phenolic, continuous	8 / 2-3
ű	75mm	Normal	Stonewool, continuous	8 / 4-5
ű	100mm	Framed	Stonewool, continuous	8/6
ű	100mm	Normal	Stonewool, continuous	9/1
ű	100mm	Pattress	Stonewool, continuous	9/2
ű	75mm	Normal	Stonewool, interrupted	9/3-4
ű	100mm	Normal	Stonewool, interrupted	9 / 5-6
ű	100mm	Pattress	Stonewool, interrupted	10 / 1
Copper pipes	75mm	Normal	-	10/2
"	100mm	Normal	-	10 / 3
"	120mm	Normal	-	10 / 4-5
"	100mm	Pattress	-	10 / 6
ű	75mm	Normal	Elastomeric & PE, continuous	11/1
ű	100mm	Framed	Elastomeric & PE, continuous	11/2
ű	100mm	Normal	Elastomeric & PE, continuous	11 / 3-5
ű	100mm	Pattress	Elastomeric & PE, continuous	11 / 6 to 12 / 1
ű	75mm	Normal	Glass- & stonewool, continuous	12 / 2-4
"	100mm	Framed	Glass- & stonewool, continuous	12 / 5
"	100mm	Normal	Glass- & stonewool, continuous	12 / 6 to 13 / 2
"	100mm	Pattress	Glass- & stonewool, continuous	13 / 3
"	75mm	Normal	Stonewool, interrupted	13 / 4
"	100mm	Framed	Glass- & stonewool, interrupted	13 / 5
ű	100mm	Normal	Stonewool, interrupted	13 / 6
ű	100mm	Pattress	Stonewool, interrupted	14 / 1
Alupex pipes	75mm	Normal	-	14 / 2
"	100mm	Normal	-	14 / 3
ű	120mm	Normal	-	14 / 4
ű	100mm	Pattress	-	14 / 5-6
ű	75mm	Normal	Elastomeric & PE, continuous	15 / 1
ű	100mm	Framed	Elastomeric & PE, continuous	15 / 2-3
ű	100mm	Normal	Elastomeric & PE, continuous	15/4
ű	100mm	Pattress	Elastomeric & PE, continuous	15 / 5

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Drywalls and rigid walls continues

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Alupex pipes	75mm	Normal	Glass- & stonewool, continuous	15 / 6
ű	100mm	Framed	Glass- & stonewool, continuous	16 / 1
ű	100mm	Normal	Glass- & stonewool, continuous	16 / 2
ű	100mm	Pattress	Glass- & stonewool, continuous	16 / 3
ű	75mm	Normal	Stonewool, interrupted	16 / 4
ű	100mm	Normal	Stonewool, interrupted	16 / 5-6
ű	100mm	Pattress	Stonewool, interrupted	17 / 1
PVC pipes, small, w/o pipe wraps	75mm	Normal	-	17 / 2-3
"	100mm	Normal	-	17 / 4
"	100mm	Pattress	-	17 / 5
PE & ABS pipes, small, w/o wraps	75mm	Normal	-	17 / 6
"	100mm	Normal	-	18 / 1
"	100mm	Pattress	-	18 / 2
PP pipes, small, w/o pipe wraps	75mm	Normal	-	18/3
"	100mm	Normal	-	18 / 4
ű	100mm	Pattress	-	18 / 5
Plastic pipes, large	75mm	Normal	-	19 / 1
ű	100mm	Framed	-	19/2
u	100mm	Normal	-	19 / 3
и	120mm	Normal	-	20 / 1
u	100mm	Pattress	-	20 / 2-3
PE & ABS pipes	75mm	Normal	Elastomeric & PE, continuous	21 / 1-3
и	100mm	Normal	Elastomeric & PE, continuous	21 / 4-6
и	100mm	Pattress	Elastomeric & PE, continuous	22 / 1-3
PP pipes	75mm	Normal	Elastomeric & PE, continuous	22 / 4-6
и	100mm	Normal	Elastomeric & PE, continuous	23 / 1-3
u	100mm	Pattress	Elastomeric & PE, continuous	23 / 4-6
Plastic conduits	75mm	Normal	-	24 / 1-3
u	100mm	Normal	-	24 / 4-6
ű	100mm	Pattress	-	25 / 1-3
Bundled plastic pipes and conduits	75mm	Normal	-	25 / 4
и	100mm	Normal	-	25 / 5
и	100mm	Pattress	-	25 / 6
PEX pipe-in-pipes	75mm	Normal	-	26 / 1-3
и	100mm	Normal	-	26 / 4-6
и	100mm	Pattress	-	27 / 1-3
Aquatherm Green pipes	75mm	Normal	-	27 / 4
и	100mm	Normal	-	28 / 1
и	100mm	Pattress	-	28 / 2
Bluepower pipes	75mm	Normal	-	28/3
и	100mm	Normal	-	29 / 1
ű	100mm	Pattress	-	29 / 2
Geberit Silent pipes	75mm	Normal	-	29/3
и	100mm	Normal	-	30 / 1
u	100mm	Pattress	-	30 / 2
POLO-KAL NG pipes	75mm	Normal	-	30 / 3
u	100mm	Normal	-	31 / 1
u	100mm	Pattress	-	31 / 2
Rehau Raupiano pipes	75mm	Normal	-	31 / 3
"	100mm	Normal	-	32 / 1
ű	100mm	Pattress	-	32/2
Uponor Decibel pipes	75mm	Normal	-	32/3
"	100mm	Normal	-	33 / 1
u	100mm	Pattress	-	33 / 2

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Drywalls and rigid walls continues

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Wavin SiTech pipes	75mm	Normal	-	33 / 3
u	100mm	Normal	-	34 / 1
ű	100mm	Pattress	-	34 / 2

Timber walls

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Linear seals	100mm	Pattress	-	34 / 3
Cables and cable trays	100mm	Pattress	-	34 / 4 to 35 / 2
Steel pipes	100mm	Pattress	-	35 / 3-5
ű	100mm	Pattress	Coat-back	35 / 6 to 36 / 2
ű	100mm	Pattress	Elastomeric & PE, continuous	36 / 3-5
ű	100mm	Pattress	Phenolic, continuous	36 / 6 to 37 / 1
ű	100mm	Pattress	Stonewool, continuous	37 / 2
ű	100mm	Pattress	Stonewool, interrupted	37 / 3-4
Copper pipes	100mm	Pattress	-	37 / 5 to 38 / 1
"	100mm	Pattress	Elastomeric & PE, continuous	38 / 2-4
ű	100mm	Pattress	Glass- & stonewool, continuous	38 / 5 to 39 / 1
ű	100mm	Pattress	Stonewool, interrupted	39 / 2
Alupex pipes	100mm	Pattress	-	39 / 3-4
ű	100mm	Pattress	Elastomeric & PE, continuous	39 / 5
ű	100mm	Pattress	Glass- & stonewool, continuous	39 / 6
ű	100mm	Pattress	Stonewool, interrupted	40 / 1-2
Plastic pipes, small, w/o pipe wraps	100mm	Pattress	-	40 / 3-5
Plastic pipes, large	100mm	Pattress	-	41 / 1
PE & ABS pipes	100mm	Pattress	Elastomeric & PE, continuous	41 / 2-4
PP pipes	100mm	Pattress	Elastomeric & PE, continuous	41 / 5 to 42 / 2
Plastic conduits	100mm	Pattress	-	42 / 3-5
Bundled plastic pipes and conduits	100mm	Pattress	-	42 / 6
PEX pipe-in-pipes	100mm	Pattress	-	43 / 1-3
Aquatherm Green pipes	100mm	Pattress	-	43 / 4
Bluepower pipes	100mm	Pattress	-	44 / 1
Geberit Silent pipes	100mm	Pattress	-	44 / 2
POLO-KAL NG pipes	100mm	Pattress	-	44 / 3
Rehau Raupiano pipes	100mm	Pattress	-	45 / 1
Uponor Decibel pipes	100mm	Pattress	-	45/2
Wavin SiTech pipes	100mm	Pattress	-	45/3

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Rigid walls, additional items

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Linear seals	75mm	Normal	-	46 / 1
ű	150mm	Normal	-	46 / 2-3
Cables and cable trays	75mm	Normal	-	46 / 4-5
ű	150mm	Normal	-	46 / 6 to 48 / 1
ű	150mm	Pattress		48 / 2 to 48 / 5
Steel pipes	75mm	Normal	Elastomeric & PE, continuous	48 / 6
"	75mm	Normal	Stonewool, continuous	49 / 1-3
ű	150mm	Normal	Stonewool, continuous	49 / 4 to 50 / 2
ű	75mm	Normal	Stonewool, interrupted	50 / 3
ű	150mm	Normal	Stonewool, interrupted	50 / 4 to 51 / 3
Copper pipes	75mm	Normal	Elastomeric & PE, continuous	51/4
ű	75mm	Normal	Glass- & stonewool, continuous	51/5
ű	75mm	Normal	Glass- & stonewool, interrupted	51/6
ű	75mm	Normal	Stonewool, interrupted	52 / 1
ű	150mm	Normal	Stonewool, interrupted	52 / 2-5
Alupex pipes	75mm	Normal	Glass- & stonewool, continuous	52 / 6
"	75mm	Normal	Stonewool, interrupted	53 / 1
ű	150mm	Normal	Stonewool, interrupted	53 / 2-4
Plastic pipes, small, w/o pipe wraps	150mm	Normal	-	53 / 5
Bundled plastic pipes	150mm	Normal	-	53 / 6
Plastic pipes, large	75mm	Normal	-	54 / 1
" "	150mm	Normal	-	54 / 2

Rigid floors

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Linear seals	150mm	Normal	-	54 / 3 to 55 / 3
Cables and cable trays	150mm	Normal	-	55 / 4 to 56 / 3
Steel pipes	150mm	Normal	-	56 / 4-5
ű	150mm	Normal	Elastomeric, continuous	56 / 6 to 57 / 2
ű	150mm	Normal	Stonewool, continuous	57 / 3
u	150mm	Normal	Stonewool, interrupted	57 / 4 to 58 / 4
Copper pipes	150mm	Normal	Elastomeric, continuous	58 / 5-6
ű li	150mm	Normal	Stonewool, interrupted	59 / 1-2
Alupex pipes	150mm	Normal	Elastomeric, continuous	59 / 3-4
ű	150mm	Normal	Stonewool, interrupted	59 / 5 to 60 / 1
Plastic pipes	150mm	Normal	-	60 / 2

Timber & rigid floors

Services	Wall thickness	Seal type	Service insulation	Page/drawing no.
Linear seals	150mm	Pattress	-	60 / 3
Cables and cable trays	150mm	Pattress	-	60 / 4-6
Steel pipes	150mm	Pattress	Glass & stonewool, interrupted	61 / 1-2
Copper pipes	150mm	Pattress	Glass & stonewool, interrupted	61/3
Alupex pipes	150mm	Pattress	Glass & stonewool, interrupted	61 / 4-5
PEX pipe-in-pipes	150mm	Pattress	-	61/6



