# PROTECTA<sup>®</sup> FR BOARD

# INSTALLATION INSTRUCTIONS

# **())** Protecta

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Please refer to Protecta<sup>®</sup> 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<sup>®</sup> FR Board seal do not require a minimum separation, except where Protecta<sup>®</sup> 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<sup>3</sup> (650 kg/m<sup>3</sup> in rigid wall details). Rigid floors must have a minimum thickness of 125 mm and comprise aerated concrete or concrete with a minimum density of 650 kg/m<sup>3</sup>. Timber floors must have a minimum thickness of 150 mm and comprise solid wood or cross-laminated timber.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period. Services in floors should be supported at maximum 450 mm from the top face. Services in walls should be supported at maximum 270 mm from both faces of the wall. Where cable trays are discontinued on both sides of the penetration seal, the maximum distance to the trays should be 150 mm. There is no minimum distance required for the fixings of the cable trays, but it is suggested such fixings and the cable trays are constructed so they provide support for the duration of the required fire classification.

**Services:** Metallic pipes through the system Protecta<sup>®</sup> FR Board may be used in all angles between 90° and 45° in all directions.

Where steel pipes are mentioned, this includes iron pipes. 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, 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

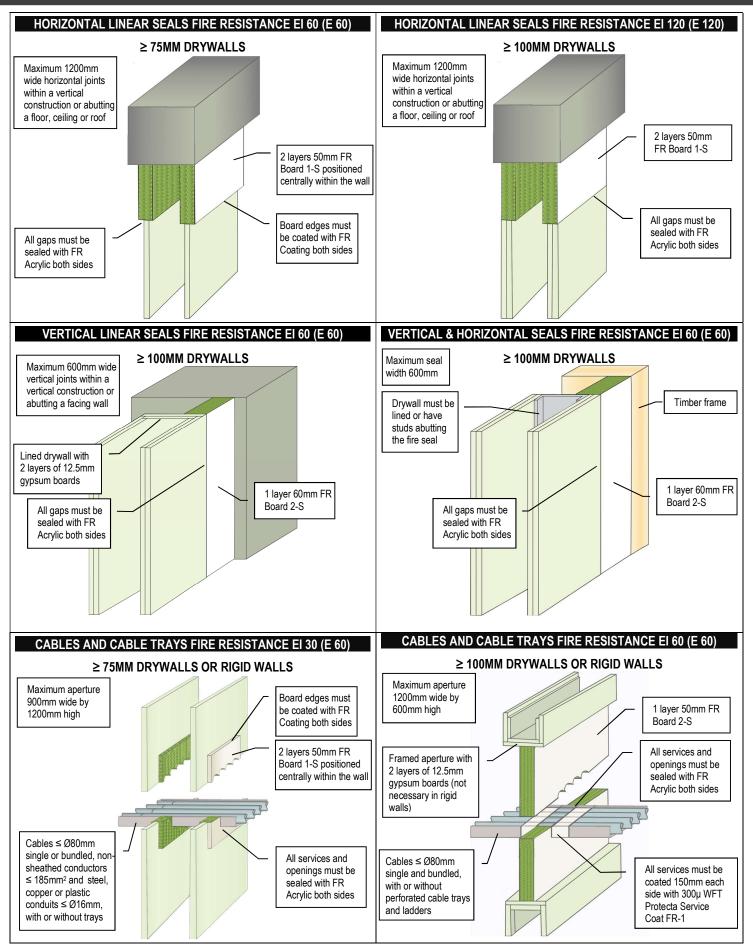
- Before installing Protecta<sup>\*</sup> FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
- Protecta\* FR Coating, FR Acrylic, FR Graphite and Service Coat FR-1 are water based, so in cases where corrosion 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, the fire seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of the fire seal. Where this is not the case, or where double layer boards are required, tubular voids should be plugged with FR Board before sealing the aperture.
- Where single sided top face seals are described, these can also be used in composite floors (e.g., concrete filled, steel trapezoidal decking).
- 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 El 60).
- The boards may be surrounded on two sides, horizontally and vertically, with Protecta<sup>\*</sup> FR Flexi Board, maximum 400 mm wide. The solution is limited to El 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 must be sealed with Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional in rigid constructions). 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).
- Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta<sup>®</sup> FR Acrylic and FR Graphite seals by painting over with Protecta<sup>®</sup> FR Coating.

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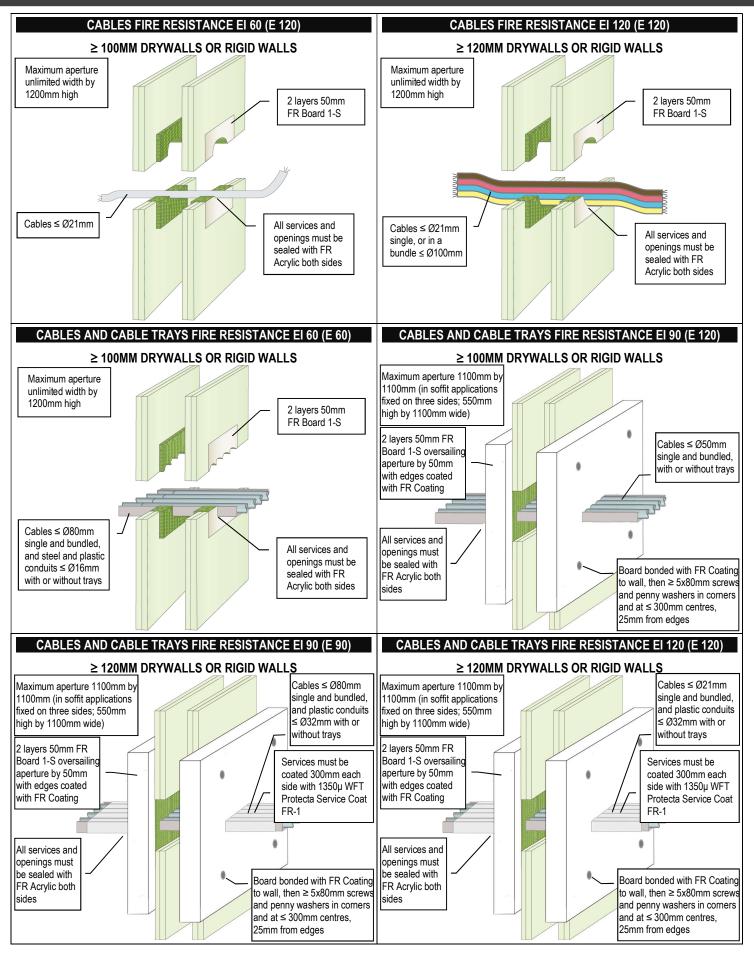
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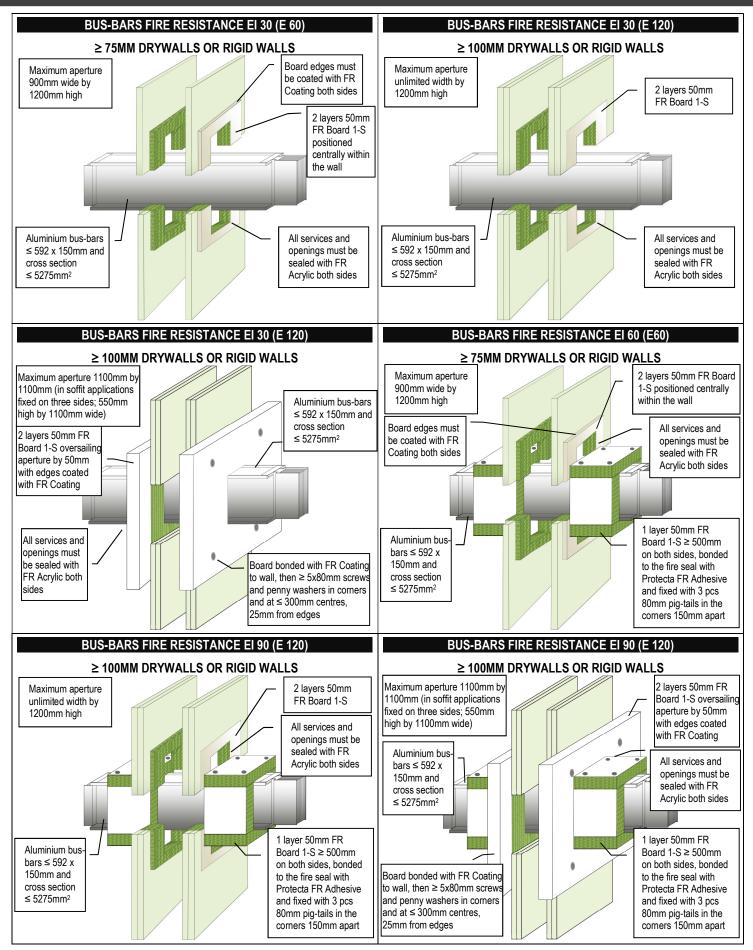


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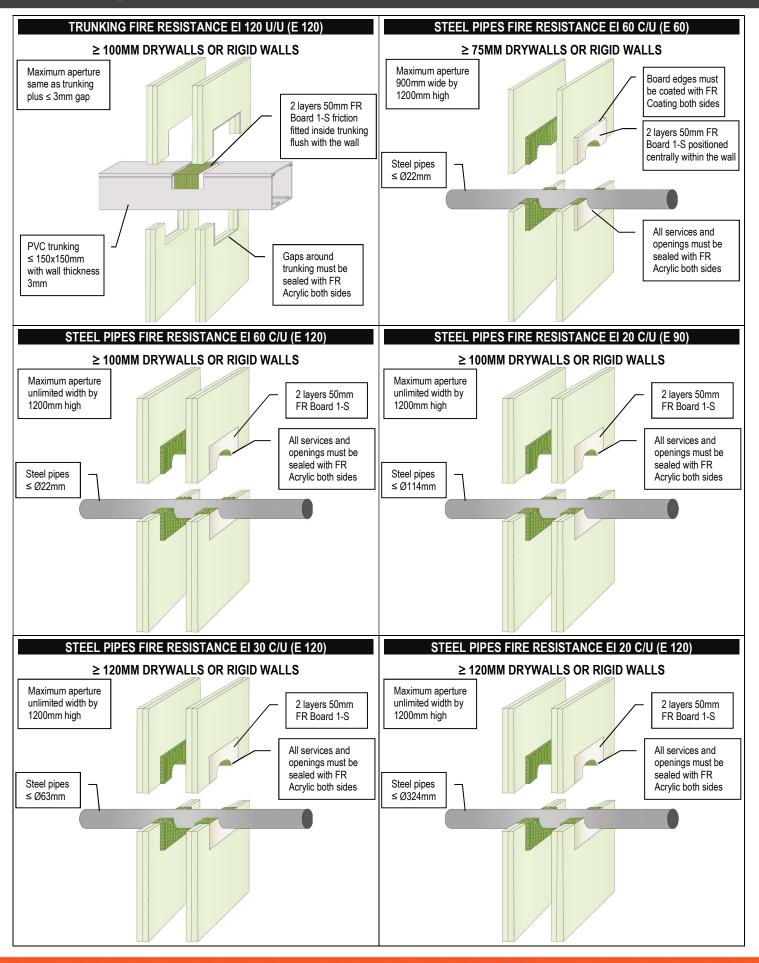


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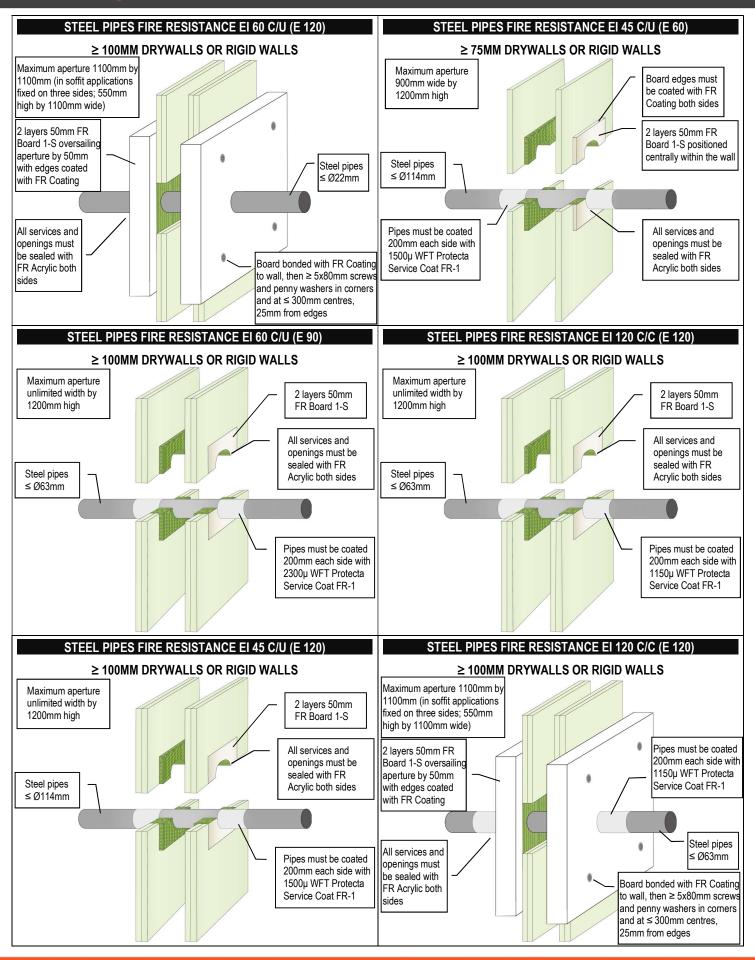
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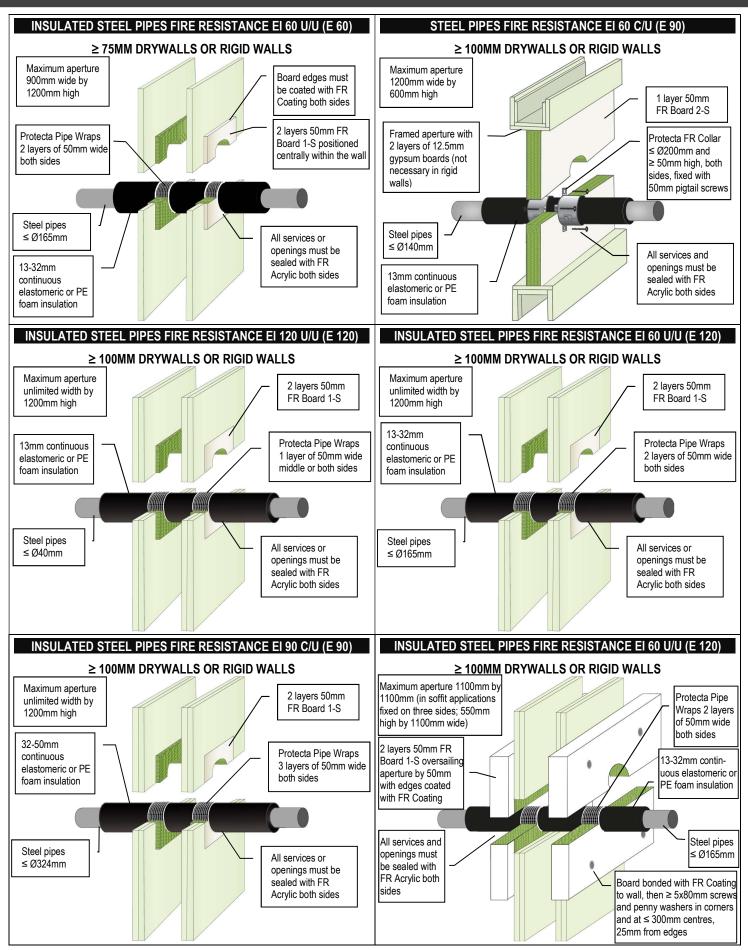
## Detail Drawings Protecta<sup>®</sup> FR Board



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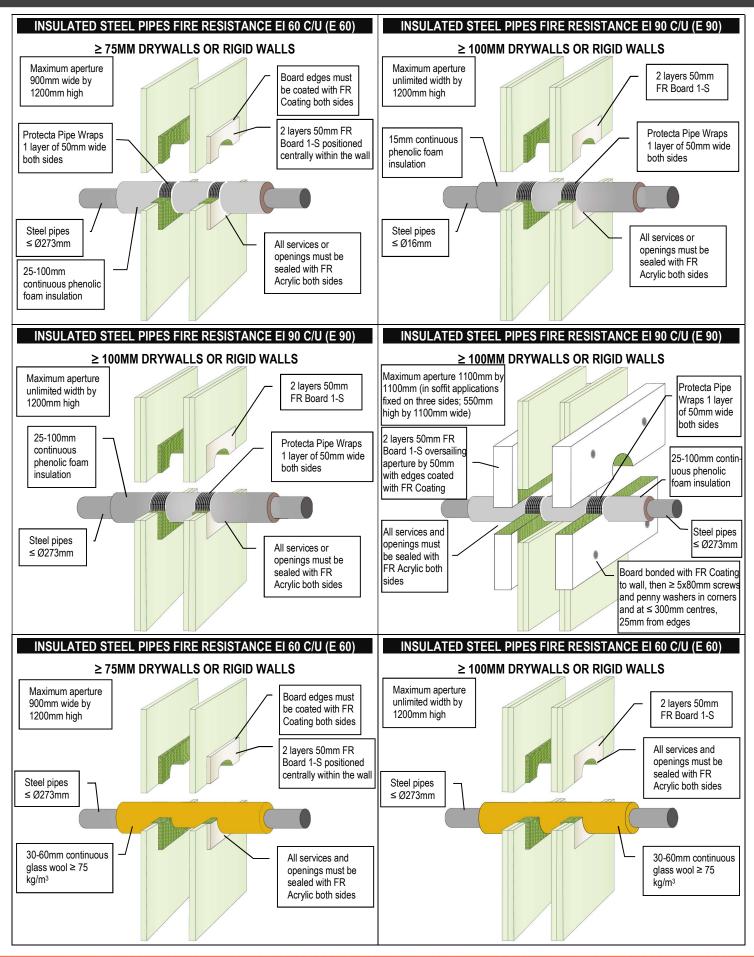


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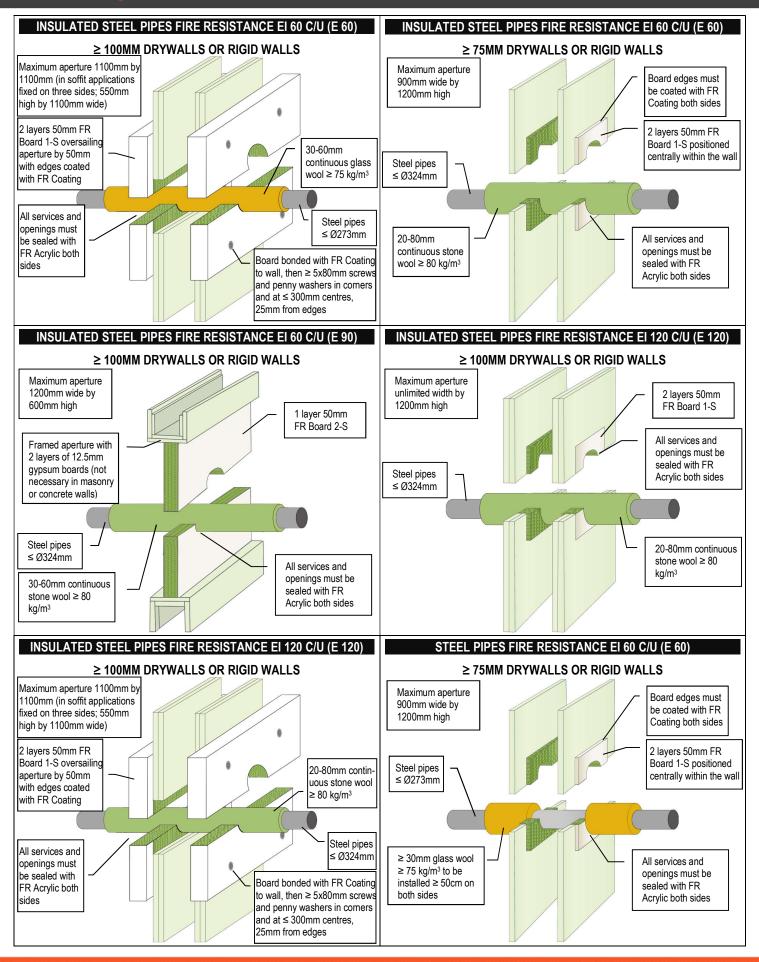
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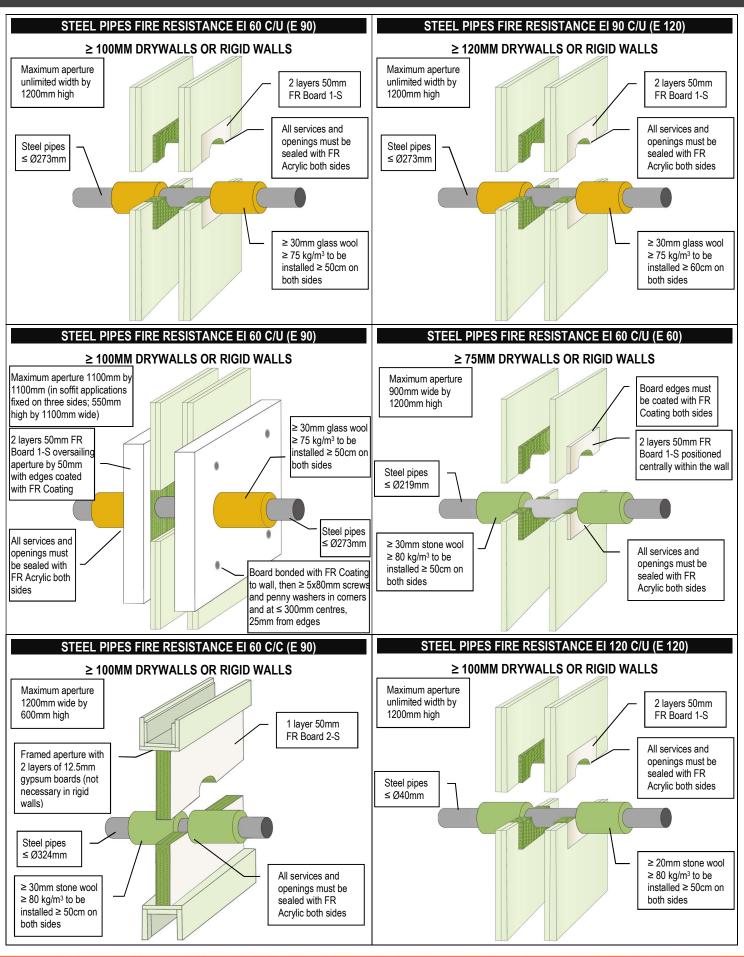
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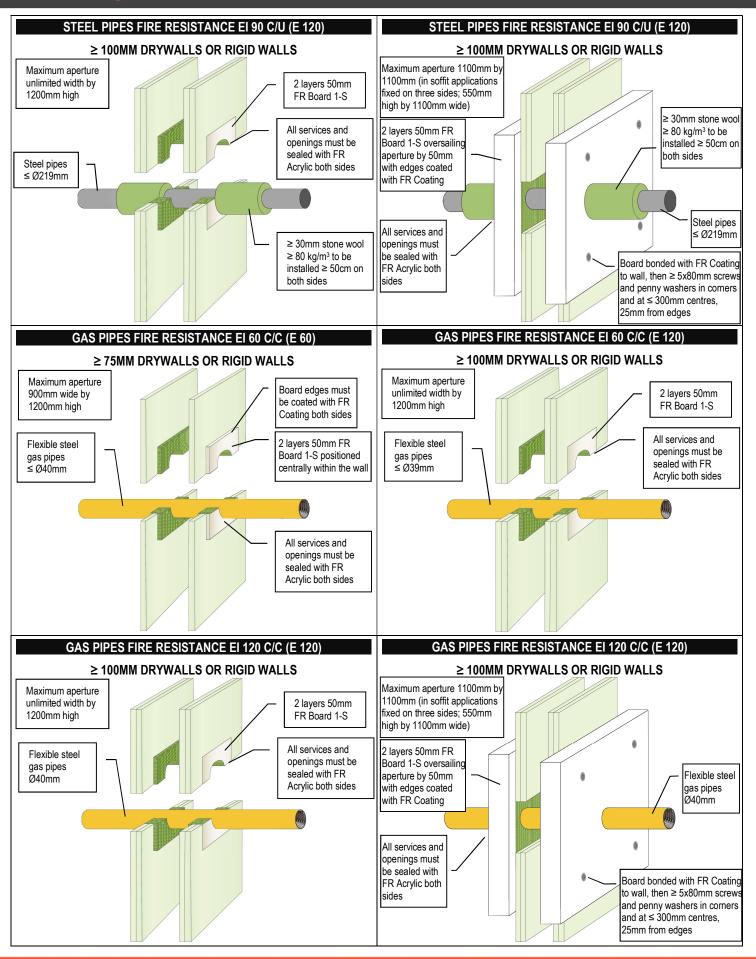
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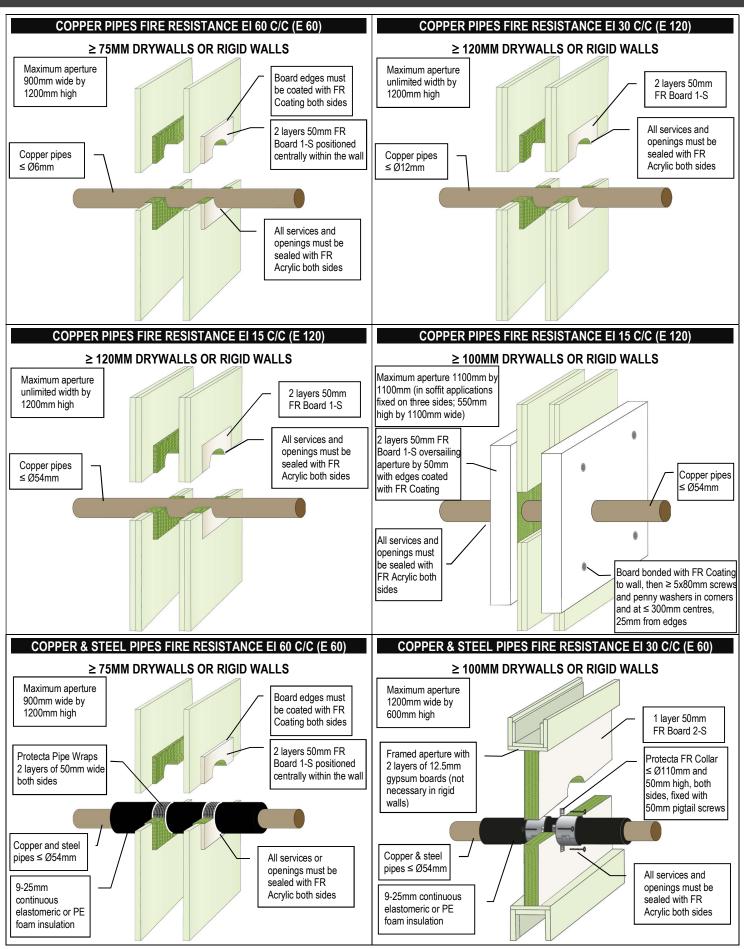
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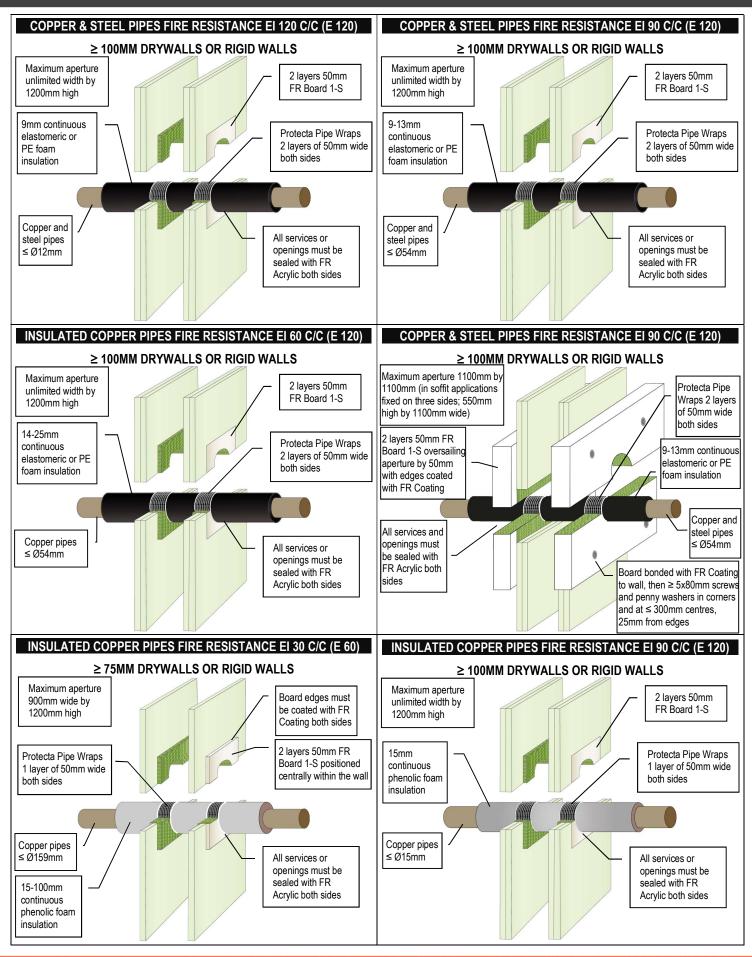


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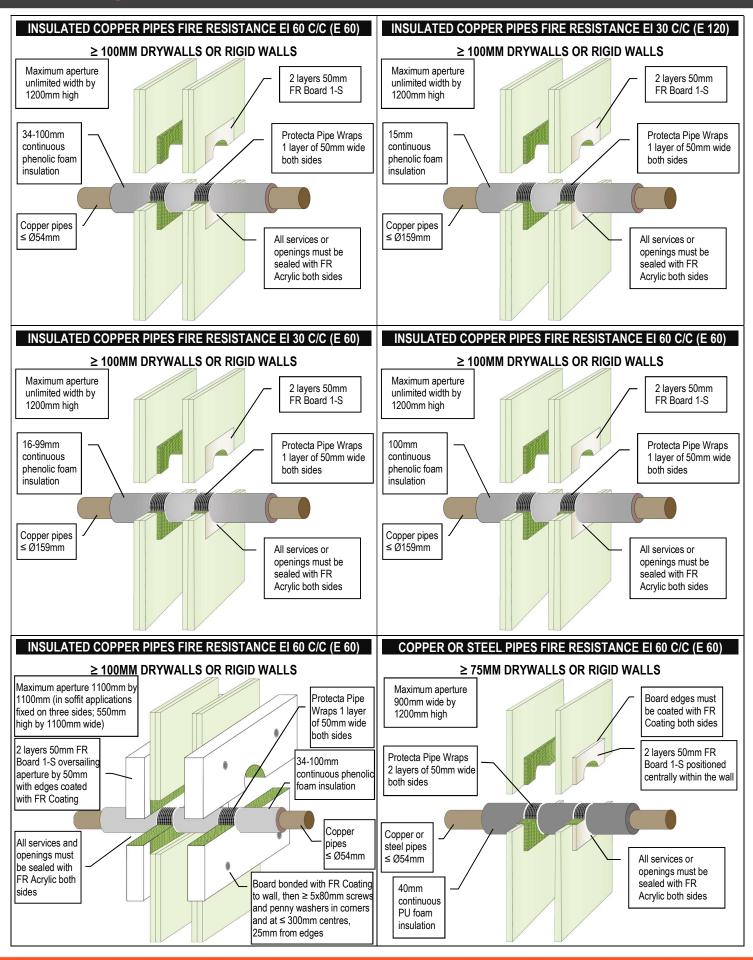


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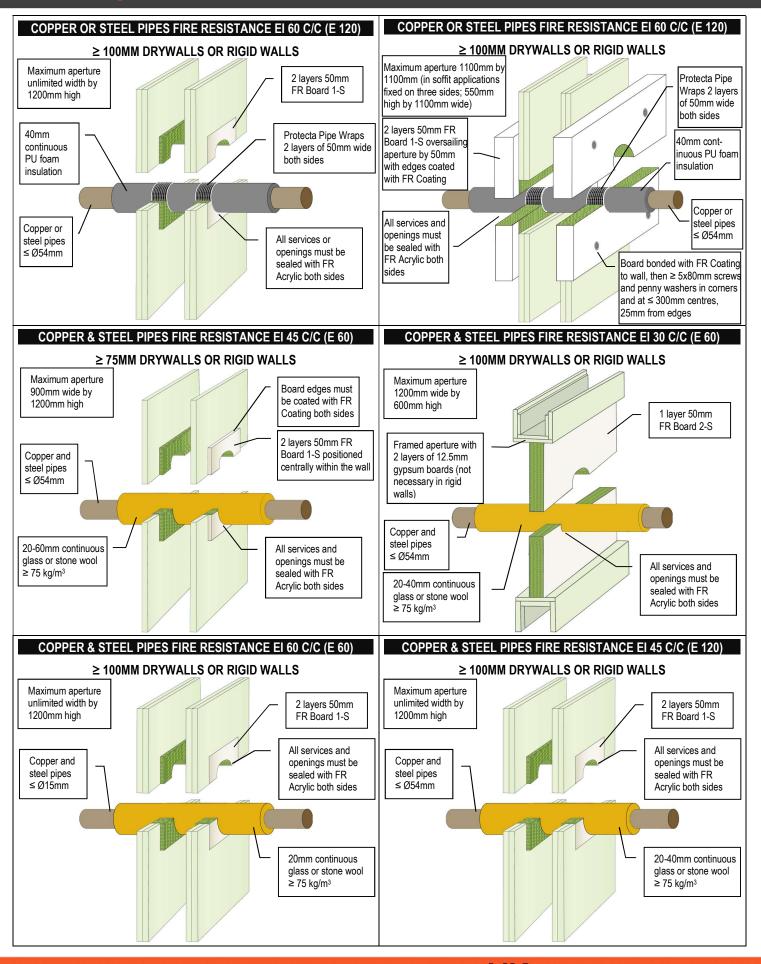
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## Detail Drawings Protecta® FR Board



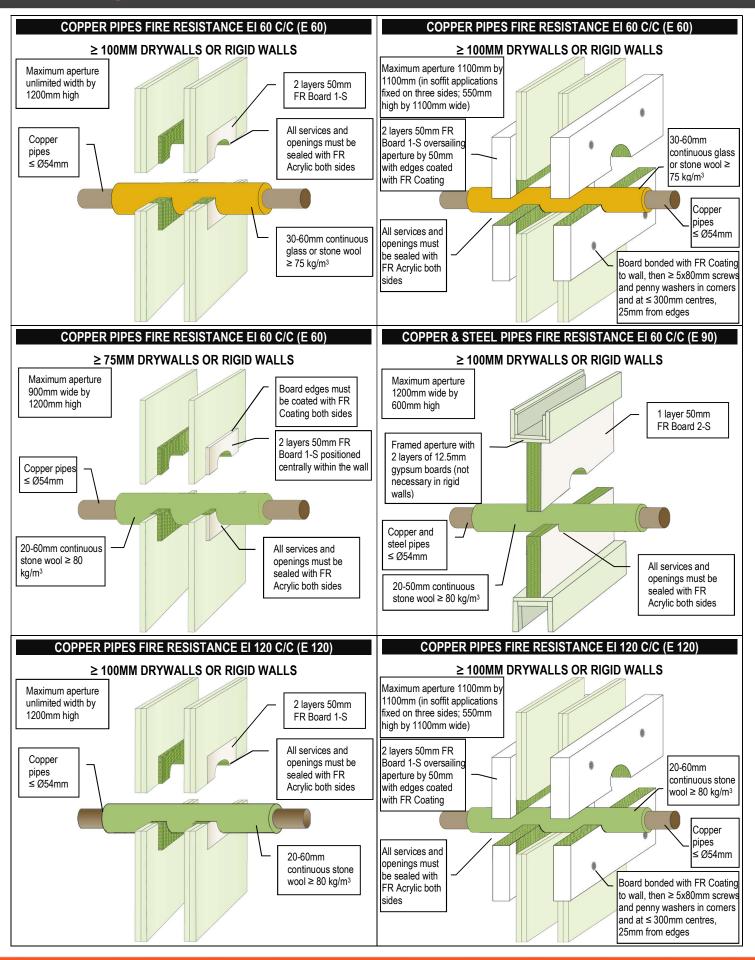
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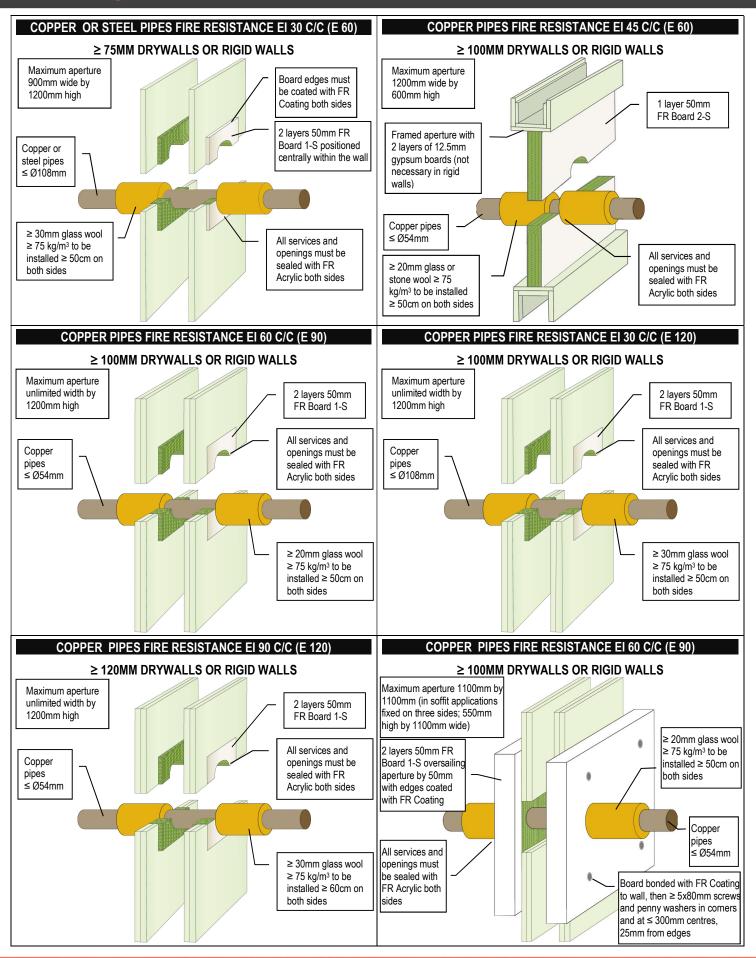


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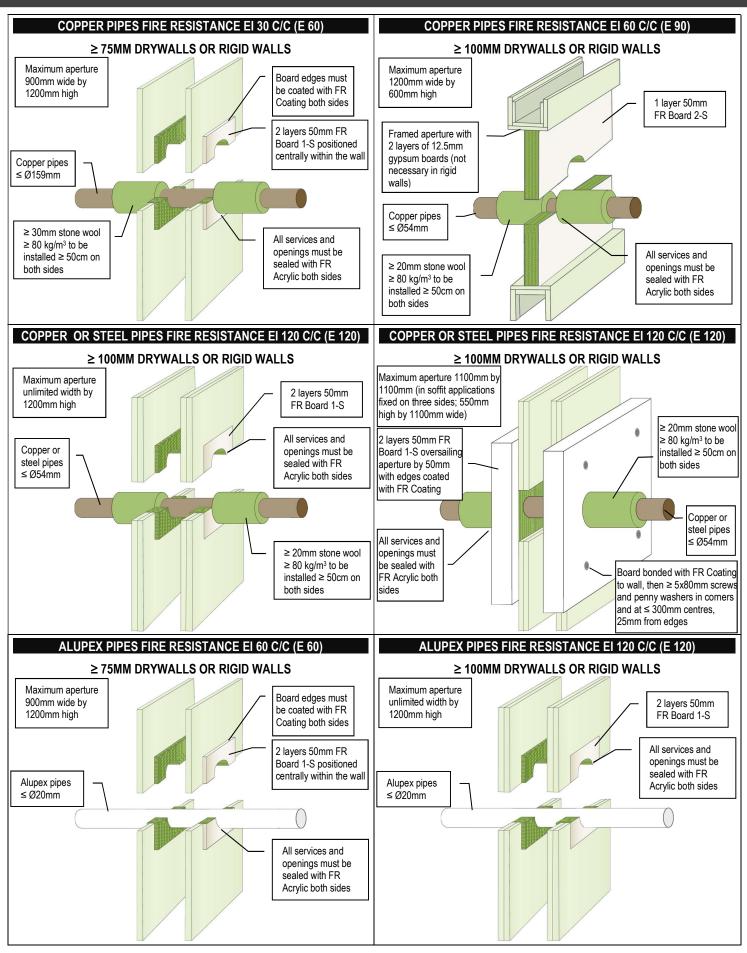


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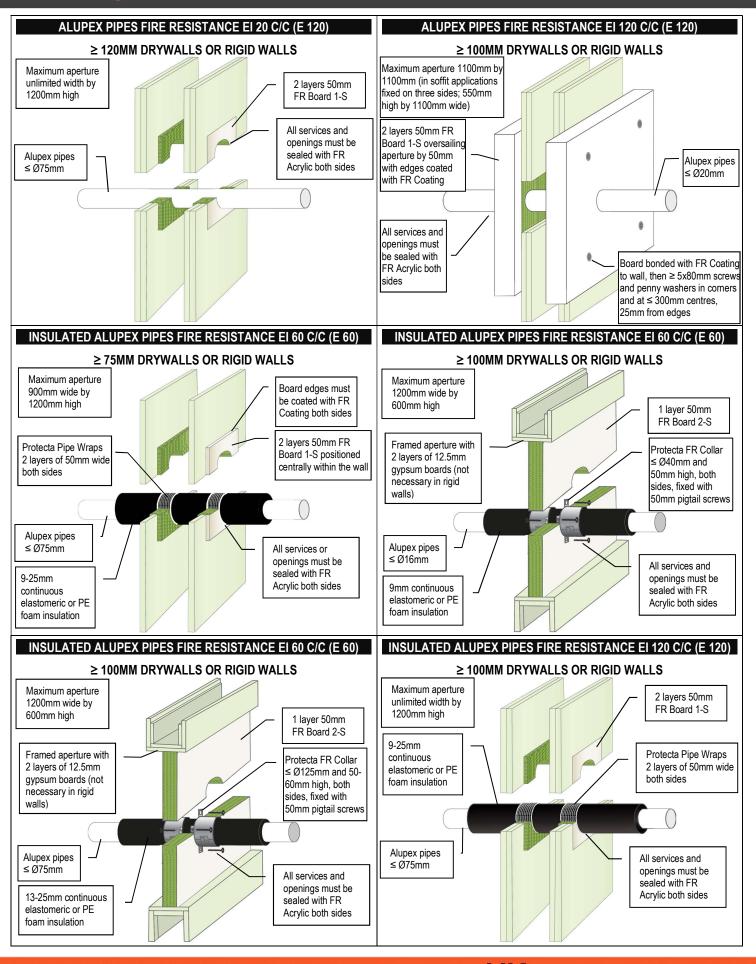
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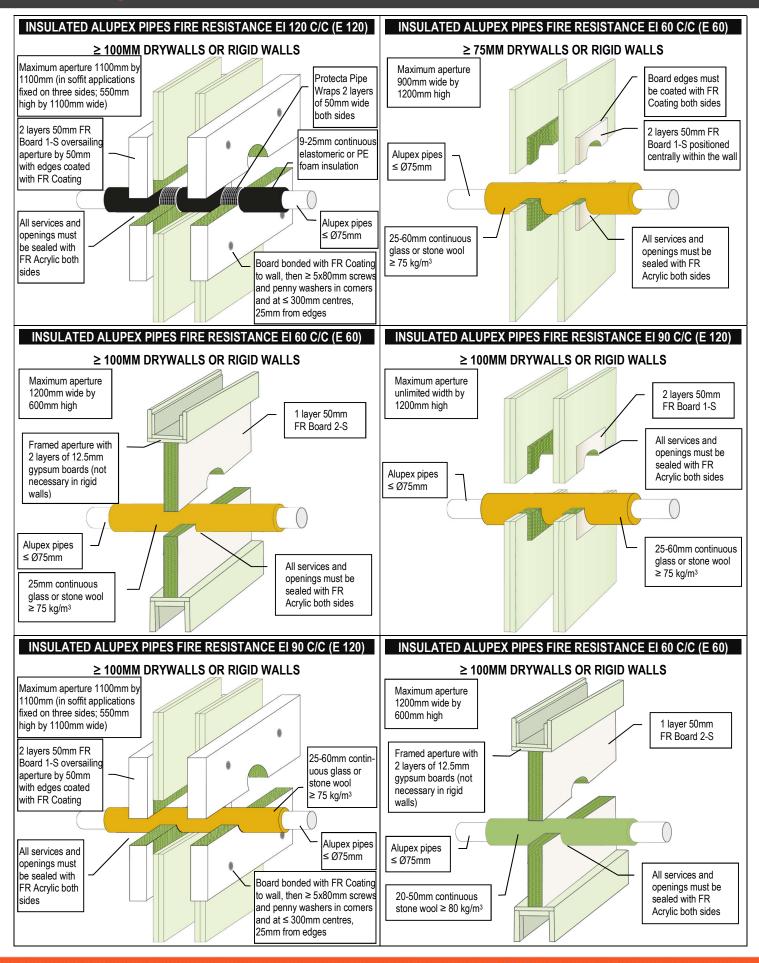


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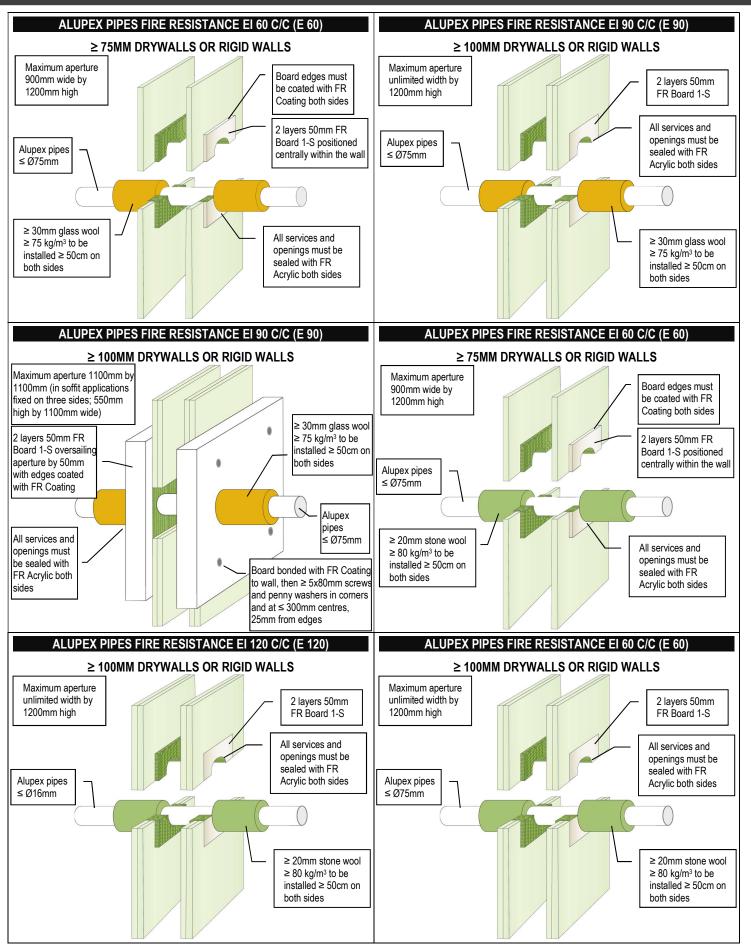


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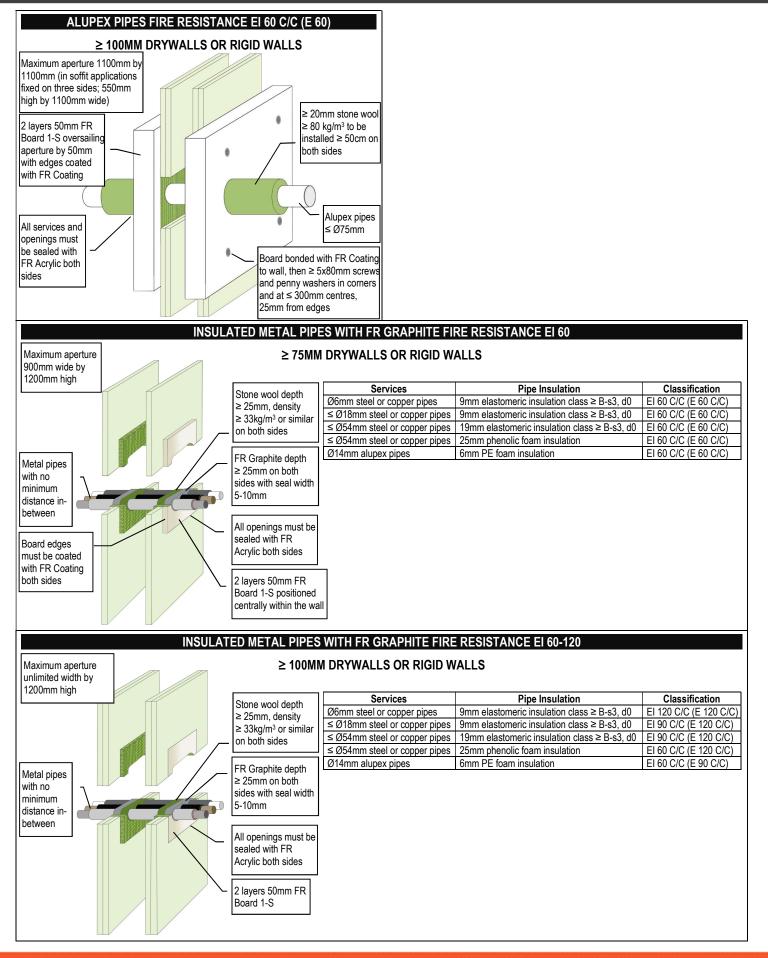
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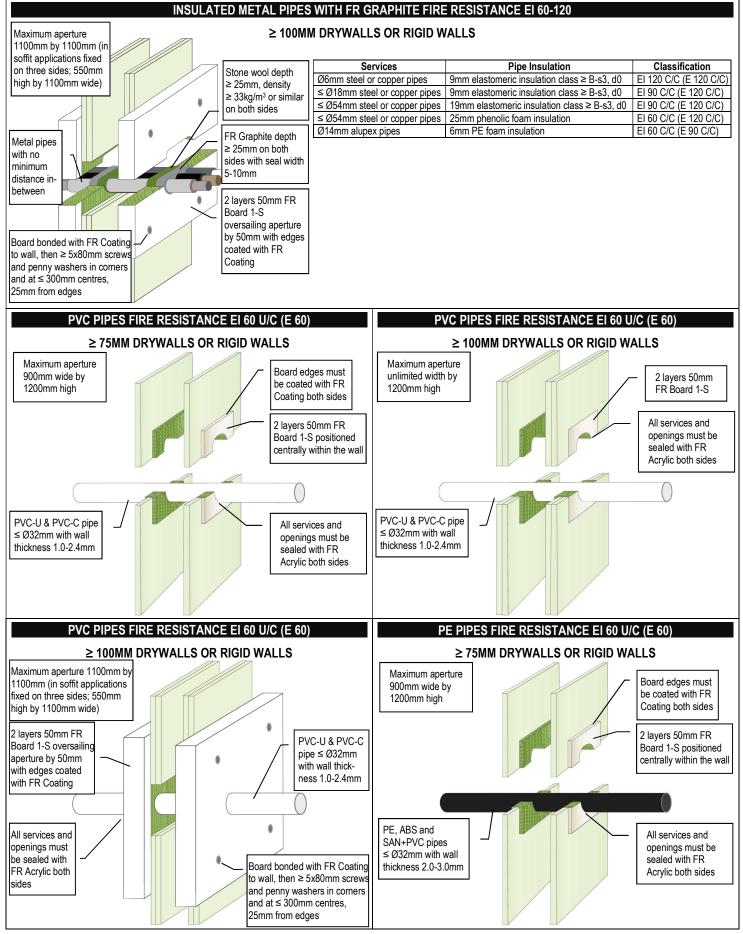
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#### PE PIPES FIRE RESISTANCE EI 60 U/C (E 60) PE PIPES FIRE RESISTANCE EI 60 U/C (E 60) ≥ 100MM DRYWALLS OR RIGID WALLS ≥ 100MM DRYWALLS OR RIGID WALLS Maximum aperture 1100mm by Maximum aperture 1100mm (in soffit applications 2 layers 50mm unlimited width by fixed on three sides; 550mm 1200mm high FR Board 1-S high by 1100mm wide) PE, ABS and 2 layers 50mm FR All services and SAN+PVC pipes Board 1-S oversailing openings must be ≤ Ø32mm with aperture by 50mm sealed with FR 6 wall thickness with edges coated Acrylic both sides 2.0-3.0mm with FR Coating PE, ABS and 0 All services and SAN+PVC pipes openings must ≤ Ø32mm with wall be sealed with thickness 2.0-3.0mm Board bonded with FR Coating FR Acrylic both to wall, then ≥ 5x80mm screws sides and penny washers in corners and at ≤ 300mm centres, 25mm from edges PP PIPES FIRE RESISTANCE EI 45 C/C (E 45) PP PIPES FIRE RESISTANCE EI 60 U/C (E 120) ≥ 75MM DRYWALLS OR RIGID WALLS ≥ 100MM DRYWALLS OR RIGID WALLS Maximum aperture Maximum aperture Board edges must unlimited width by 900mm wide by 2 layers 50mm be coated with FR 1200mm high 1200mm high FR Board 1-S Coating both sides 2 layers 50mm FR All services and openings must be Board 1-S positioned sealed with FR centrally within the wall Acrylic both sides PP pipe ≤ Ø32mm PP pipe ≤ Ø32mm All services and with wall thickness with wall thickness openings must be 1.8-4.4mm 1.8-2.2mm sealed with FR Acrylic both sides PP PIPES FIRE RESISTANCE EI 60 U/C (E 120) PP PIPES FIRE RESISTANCE EI 45 C/C (E 45) ≥ 100MM DRYWALLS OR RIGID WALLS ≥ 100MM DRYWALLS OR RIGID WALLS Maximum aperture 1100mm by Maximum aperture 1100mm (in soffit applications unlimited width by 2 layers 50mm fixed on three sides; 550mm 1200mm high FR Board 1-S high by 1100mm wide) All services and 2 layers 50mm FR PP pipe Board 1-S oversailing openings must be $\leq Ø32$ mm with sealed with FR aperture by 50mm wall thickness Acrylic both sides with edges coated 1.8-2.2mm with FR Coating 0 PP pipe $\leq Ø32mm$ All services and with wall thickness openings must 2.3-4.4mm be sealed with Board bonded with FR Coating FR Acrylic both to wall, then ≥ 5x80mm screws sides and penny washers in corners and at ≤ 300mm centres, 25mm from edges

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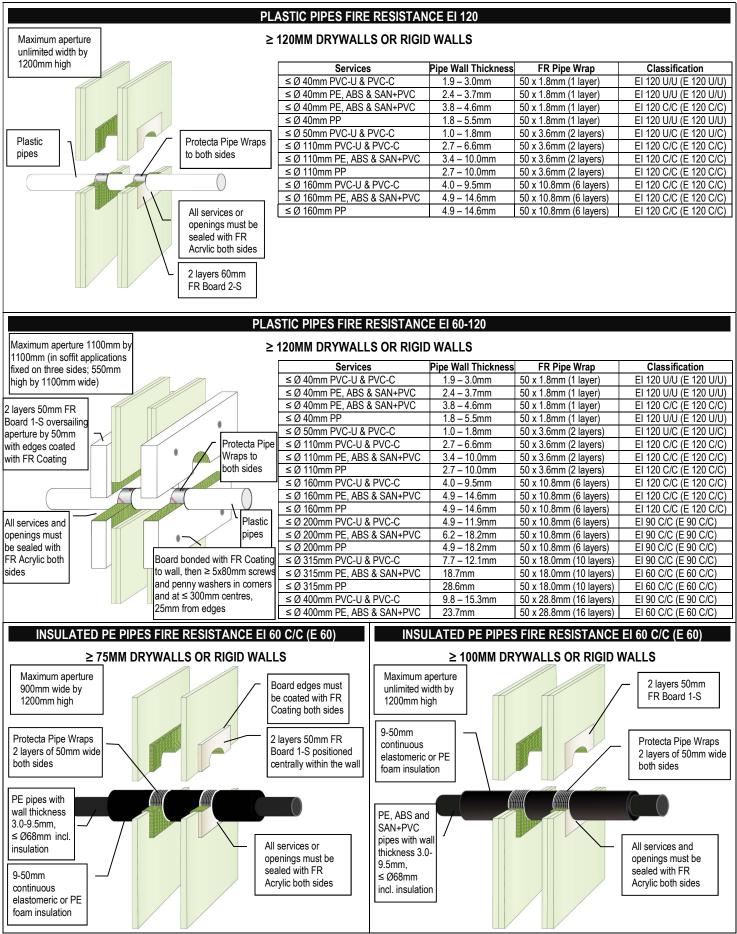


		r LA	STIC PIPES FIRE RESISTANC	CE EI 30-60		
Maximum aperture	≥ 75MM DRY	WALLS OR RIGIDS		Pipe Wall Thickness	FR Pipe Wrap	Classification
900mm wide by			≤ Ø 40mm PVC-U & PVC-C	1.0 – 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
1200mm high			≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
/		Board edges must	≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
4		be coated with FR Coating both sides	$\leq \emptyset$ 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
	6	Coaling both sides	$\leq \emptyset$ 110mm PE, ABS & SAN+PVC $\leq \emptyset$ 110mm PP	4.2 – 10.0mm 2.7 – 15.1mm	50 x 3.6mm (2 layers) 50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C) 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)
Protecta Pipe		2 layers 50mm FR	$\leq \emptyset$ 125mm PE, ABS & SAN+PVC	4.8 – 12.0mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
Wraps to both sides		Board 1-S positioned centrally within the wall	≤ Ø 125mm PP	3.1 – 17.1mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
			≤Ø160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
		$\cap$	≤ 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)
Plastic /		All services or	≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
pipes		openings must be	≤ Ø 200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
pipes		sealed with FR	≤ Ø 200mm PP	4.9 – 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
		Acrylic both sides	≤ 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	12.1 – 18.7mm	50 x 18.0mm (10 layers)	EI 30 C/C (E 30 C/C)
			$\leq \emptyset$ 315mm PP	12.1 – 28.6mm	50 x 18.0mm (10 layers)	EI 30 C/C (E 30 C/C)
			$\leq \emptyset$ 400mm PVC-U & PVC-C	9.8 – 15.3mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
			$\leq \emptyset$ 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
			≤Ø400mm PP	22.7mm	50 x 28.8mm (16 layers)	EI 45 C/C (E 45 C/C)
		DI A	STIC PIPES FIRE RESISTANC			
	]					
Maximum aperture 1200mm wide by			100MM DRYWALLS OR RIGIE	) WALLS		
600mm high		All services or	Pipe & Collar Descriptions	Pipe Wall Thick	ness Min. Collar Height	Classification
-		openings must be sealed with FR	≤ Ø 110mm PVC-U & PVC-C	1.9 – 6.6mm	30mm	EI 30 U/C (E 90 U/C)
		Acrylic both sides	≤ Ø 50mm PVC-U & PVC-C	1.9 – 3.7mm	50mm	EI 60 U/C (E 120 U/C)
		Aci yiic botin sides	≤ Ø 110mm PVC-U & PVC-C	2.1 – 6.6mm	50mm	EI 60 U/C (E 90 U/C)
		Protecta FR Collar	≤ Ø 160mm PVC-U & PVC-C	3.1 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
		fixed with 50mm	≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mn		EI 45 U/C (E 60 U/C)
Plastic 1		pigtail screws	≤ Ø 50mm PE, ABS & SAN+PVC	3.0 – 4.6mm	50mm	EI 60 U/C (E 120 U/C)
pipes		pigtail colorio	≤ Ø 110mm PE, ABS & SAN+PVC	3.0 – 10.0mn		EI 60 C/C (E 90 C/C)
			< 0 160mm DE ABC 2 CANLD/C	20 05mm	CO	
		$\frown$	≤ Ø 160mm PE, ABS & SAN+PVC	3.9 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
		$\bigcirc$	≤Ø90mm PP	1.8 – 4.6mm	50mm	EI 60 C/C (E 60 C/C)
			≤ Ø 90mm PP ≤ Ø 110mm PP	1.8 – 4.6mm 2.7 – 4.2mm	50mm 50mm	EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)
Framed aperture		1 layer 50mm FR	≤Ø90mm PP	1.8 – 4.6mm	50mm	EI 60 C/C (E 60 C/C)
vith 2 layers of 2.5mm gypsum		1 layer 50mm FR Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP	1.8 – 4.6mm 2.7 – 4.2mm	50mm 50mm	EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)
vith 2 layers of 2.5mm gypsum		Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP	1.8 – 4.6mm 2.7 – 4.2mm 3.4 – 9.1mm	50mm 50mm	EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)
vith 2 layers of 2.5mm gypsum		Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC	1.8 – 4.6mm 2.7 – 4.2mm 3.4 – 9.1mm	50mm 50mm 60mm	EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)
vith 2 layers of 2.5mm gypsum poards	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC Services	1.8 – 4.6mm 2.7 – 4.2mm 3.4 – 9.1mm E El 60-120 Pipe Wall Thickness	50mm 50mm 60mm	EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)
A maximum aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm   E El 60-120 Pipe Wall Thickness 1.9 - 3.0mm	50mm 50mm 60mm 50mm 50 x 1.8mm (1 layer)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U
vith 2 layers of 2.5mm gypsum oards	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PE, ABS & SAN+PVC	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm <b>E EI 60-120 Pipe Wall Thickness</b> 1.9 - 3.0mm           2.4 - 3.7mm	50mm 50mm 60mm 50 x 1.8mm (1 layer) 50 x 1.8mm (1 layer)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U EI 120 U/U (E 120 U/U EI 120 U/U (E 120 U/U
Arrithman aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PE, ABS & SAN+PVC ≤ Ø 40mm PP	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm <b>E EI 60-120 Pipe Wall Thickness</b> 1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm	50mm 50mm 60mm 50x 1.8mm (1 layer) 50 x 1.8mm (1 layer) 50 x 1.8mm (1 layer)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U EI 120 U/U (E 120 U/U EI 120 U/U (E 120 U/U EI 120 U/U (E 120 U/U
Arrith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PE, ABS & SAN+PVC ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm <b>E EI 60-120 Pipe Wall Thickness</b> 1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm	50mm 50mm 60mm 50x 1.8mm (1 layer) 50 x 1.8mm (1 layer) 50 x 1.8mm (1 layer) 50 x 1.8mm (1 layer) 50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U EI 120 U/C (E 120 U/C
Arrith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C ≤ Ø 110mm PVC-U & PVC-C	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           Bipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U) EI 120 U/C (E 120 U/C) EI 90 U/C (E 120 U/C)
Arrithman aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C ≤ Ø 110mm PVC-U & PVC-C ≤ Ø 110mm PC, ABS & SAN+PVC	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           Bipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/C (E 120 U/C) EI 90 U/C (E 120 U/C) EI 90 U/C (E 120 U/C) EI 90 U/C (E 120 U/C)
A constraints of a constraint	≥ 100MM DR	Board 2-S PLA: YWALLS OR RIGIDS	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C ≤ Ø 110mm PVC-U & PVC-C ≤ Ø 110mm PP, ABS & SAN+PVC ≤ Ø 110mm PP	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 120 U/C) EI 90 U/C (E 120 U/C) EI 90 U/U (E 90 U/U) EI 90 U/U (E 90 U/U)
A maximum aperture unlimited width by	≥ 100MM DR	Board 2-S	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C ≤ Ø 110mm PP, ABS & SAN+PVC ≤ Ø 110mm PP ≤ Ø 125mm PVC-U & PVC-C	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 20 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 120 U/C)
Arrith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLA	≤ Ø 90mm PP ≤ Ø 110mm PP ≤ Ø 160mm PP ≤ Ø 160mm PP STIC PIPES FIRE RESISTANC S Services ≤ Ø 40mm PVC-U & PVC-C ≤ Ø 40mm PP ≤ Ø 50mm PVC-U & PVC-C ≤ Ø 110mm PP ≤ Ø 110mm PP ≤ Ø 125mm PVC-U & PVC-C ≤ Ø 125mm PVC-U & PVC-C ≤ Ø 125mm PVC-U & PVC-C	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 3.6mm (3 layers)           50 x 5.4mm (3 layers)	EI 60 C/C (E 60 C/C) EI 20 U/C (E 20 U/C) EI 20 U/U (E 120 U/C) EI 120 U/U (E 120 U/C) EI 120 U/C (E 120 U/C) EI 90 U/C (E 120 U/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLA	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP.</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP. ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP.</li> <li>≤ Ø 125mm PP.</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)           50 x 3.6mm (3 layers)           50 x 3.6mm (3 layers)           50 x 5.4mm (3 layers)	EI 60 C/C (E 60 C/C) EI 20 C/C (E 60 C/C) EI 20 U/U (E 20 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 120 U/C)
Arrith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLA	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP,</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PVC-U &amp; PVC-C</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           9.1 - 1.000000000000000000000000000000000	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)           50 x 3.6mm (2 layers)           50 x 3.6mm (3 layers)           50 x 5.4mm (3 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 120 U/C)
Arrith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	PLA: YWALLS OR RIGIDS Protecta Pipe Wraps to both sides	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP.</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP. ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP.</li> <li>≤ Ø 125mm PP.</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.0 - 9.5mm           4.9 - 14.6mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (6 layers)           50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLA: YWALLS OR RIGIDS Protecta Pipe Wraps to both sides All services or	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PVC-U &amp; PVC-C</li> <li>≤ Ø 160mm PVC-U &amp; SAN+PVC</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.1 - 17.1mm           4.0 - 9.5mm           4.9 - 14.6mm           4.9 - 21.9mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)           50 x 10.8mm (6 layers)           50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C) EI 20 U/C (E 120 U/C) EI 120 U/U (E 120 U/C) EI 120 U/U (E 120 U/C) EI 20 U/C (E 120 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 60 U/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLAS PLAS YWALLS OR RIGIDS Protecta Pipe Wraps to both sides All services or openings must be	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PP, ABS &amp; SAN+PVC</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.0 - 9.5mm           4.9 - 14.6mm           4.9 - 11.9mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLAS PLAS YWALLS OR RIGIDS Violation	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PVC-U &amp; PVC-C</li> <li>≤ Ø 160mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP, ABS &amp; SAN+PVC</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.0 - 9.5mm           4.9 - 14.6mm           4.9 - 11.9mm           6.2 - 18.2mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	Board 2-S PLAS PLAS YWALLS OR RIGIDS Protecta Pipe Wraps to both sides All services or openings must be	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PV-</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP, ABS &amp; SAN+PVC</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.0 - 9.5mm           4.9 - 14.6mm           4.9 - 11.9mm	50mm           50mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C) EI 20 U/C (E 20 U/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 90 C/C (E 90 C/C)
Vith 2 layers of 2.5mm gypsum poards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	PLAS PLAS PLAS YWALLS OR RIGIDS Protecta Pipe Wraps to both sides All services or openings must be sealed with FR Acrylic both sides	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 100mm PP</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>≤ Ø 100mm PP</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>≤ Ø 100mm PP</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>&lt; Ø 200mm PVC-U &amp; PVC-C</li> <li>&lt; Ø 200mm PVC-U &amp; PVC-C</li> </ul>	1.8 – 4.6mm         2.7 – 4.2mm         3.4 – 9.1mm         3.4 – 9.1mm         Pipe Wall Thickness         1.9 – 3.0mm         2.4 – 3.7mm         1.8 – 5.5mm         1.0 – 1.8mm         2.7 – 6.6mm         4.2 – 10.0mm         2.7 – 15.1mm         3.7 – 7.4mm         4.8 – 12.0mm         3.1 – 17.1mm         4.9 – 14.6mm         4.9 – 11.9mm         6.2 – 18.2mm         4.9 – 18.2mm	50mm           50mm           60mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)           50 x 10.8mm (1 layers)           50 x 18.0mm (10 layers)           50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C)
Vith 2 layers of 12.5mm gypsum boards Maximum aperture unlimited width by 1200mm high Plastic	≥ 100MM DR	Board 2-S PLAS PLAS YWALLS OR RIGIDS Violation	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 10mm PP</li> <li>≤ Ø 10mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 125mm PP</li> <li>≤ Ø 160mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 200mm PC-U &amp; PVC-C</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>≤ Ø 200mm PVC-U &amp; PVC-C</li> <li>≤ Ø 200mm PP</li> <li>≤ Ø 200mm PP</li> <li>≤ Ø 315mm PVC-U &amp; PVC-C</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           9.1 - 9.1mm           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.9 - 14.6mm           4.9 - 14.6mm           4.9 - 11.9mm           6.2 - 18.2mm           4.9 - 18.2mm           7.7 - 12.1mm	50mm           50mm           60mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)           50 x 10.8mm (1 layers)	EI 60 C/C (E 60 C/C) EI 20 U/C (E 20 U/C) EI 20 U/U (E 120 U/C) EI 20 U/C (E 120 U/C) EI 20 U/C (E 120 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 90 C/C (E 90 C/C) EI 90 C/C (E 90 C/C)
Vith 2 layers of 2.5mm gypsum oards Maximum aperture unlimited width by 1200mm high	≥ 100MM DR	PLAS PLAS PLAS YWALLS OR RIGIDS YWALLS OR RIGIDS All services or openings must be sealed with FR Acrvlic both sides 2 layers 50mm	<ul> <li>≤ Ø 90mm PP</li> <li>≤ Ø 110mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>Services</li> <li>≤ Ø 40mm PVC-U &amp; PVC-C</li> <li>≤ Ø 40mm PE, ABS &amp; SAN+PVC</li> <li>≤ Ø 40mm PP</li> <li>≤ Ø 50mm PVC-U &amp; PVC-C</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 110mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 125mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 200mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 200mm PP, ABS &amp; SAN+PVC</li> <li>≤ Ø 160mm PP</li> <li>≤ Ø 200mm PP</li> <li>≤ Ø 315mm PVC-U &amp; PVC-C</li> <li>≤ Ø 315mm PVC-U &amp; SAN+PVC</li> <li>≤ Ø 315mm PVC-U &amp; SAN+PVC</li> </ul>	1.8 - 4.6mm           2.7 - 4.2mm           3.4 - 9.1mm           3.4 - 9.1mm           Pipe Wall Thickness           1.9 - 3.0mm           2.4 - 3.7mm           1.8 - 5.5mm           1.0 - 1.8mm           2.7 - 6.6mm           4.2 - 10.0mm           2.7 - 15.1mm           3.7 - 7.4mm           4.8 - 12.0mm           3.1 - 17.1mm           4.9 - 18.0mm           4.9 - 14.6mm           4.9 - 14.8mm           4.9 - 18.2mm           7.7 - 12.1mm           18.7mm	50mm           50mm           60mm           60mm           60mm           50 x 1.8mm (1 layer)           50 x 3.6mm (2 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 5.4mm (3 layers)           50 x 10.8mm (6 layers)           50 x 10.8mm (1 layers)           50 x 18.0mm (10 layers)           50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C) EI 20 U/C (E 20 U/C) EI 20 U/U (E 120 U/U) EI 120 U/U (E 120 U/C) EI 20 U/C (E 120 U/C) EI 90 U/C (E 90 U/C) EI 90 U/C (E 90 U/C) EI 60 U/C (E 90 U/C) EI 60 U/C (E 90 C/C) EI 90 C/C (E 90 C/C)

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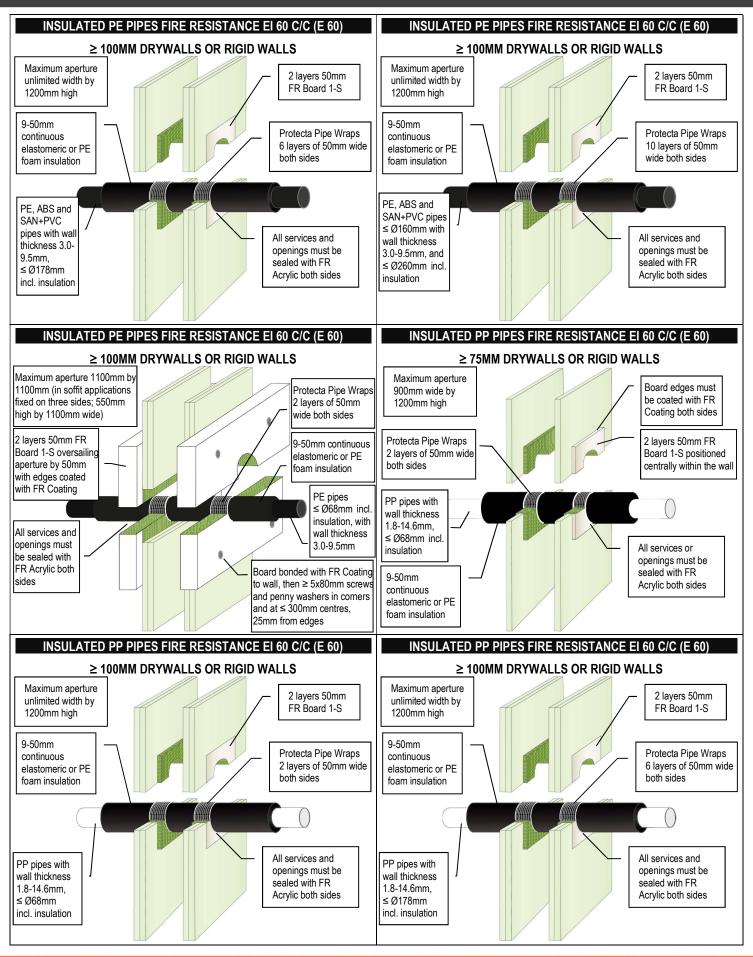
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Installation Guide to ETA 22/0733, ETA 22/0771, UKTA 22/0034 & UKTA 22/0025

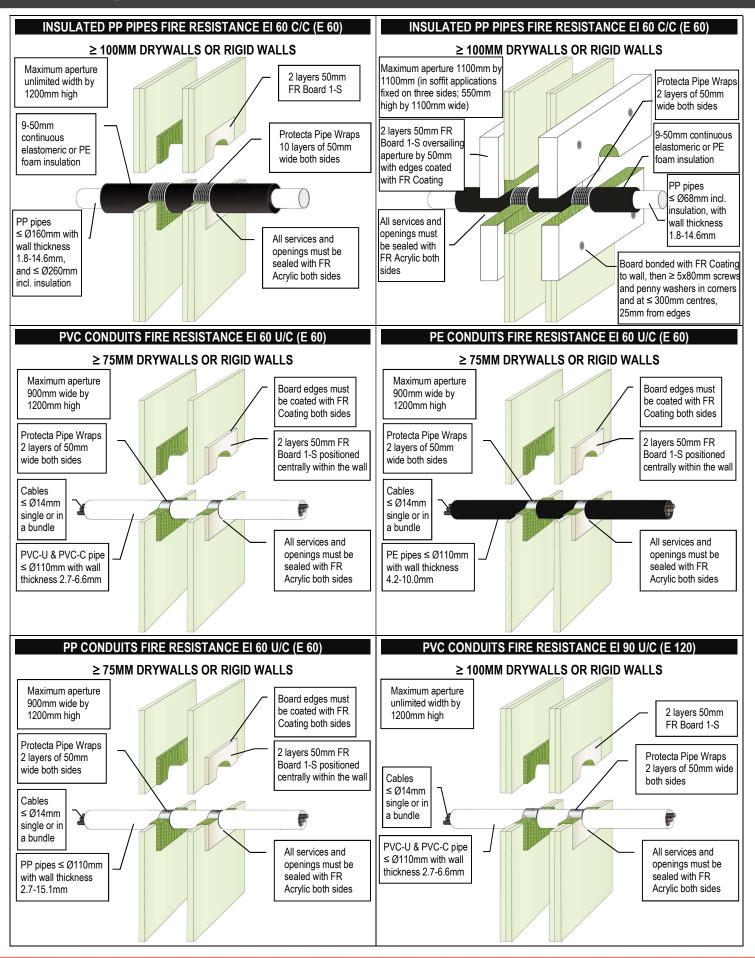


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# Nrotecta<sup>®</sup>

## Detail Drawings Protecta® FR Board

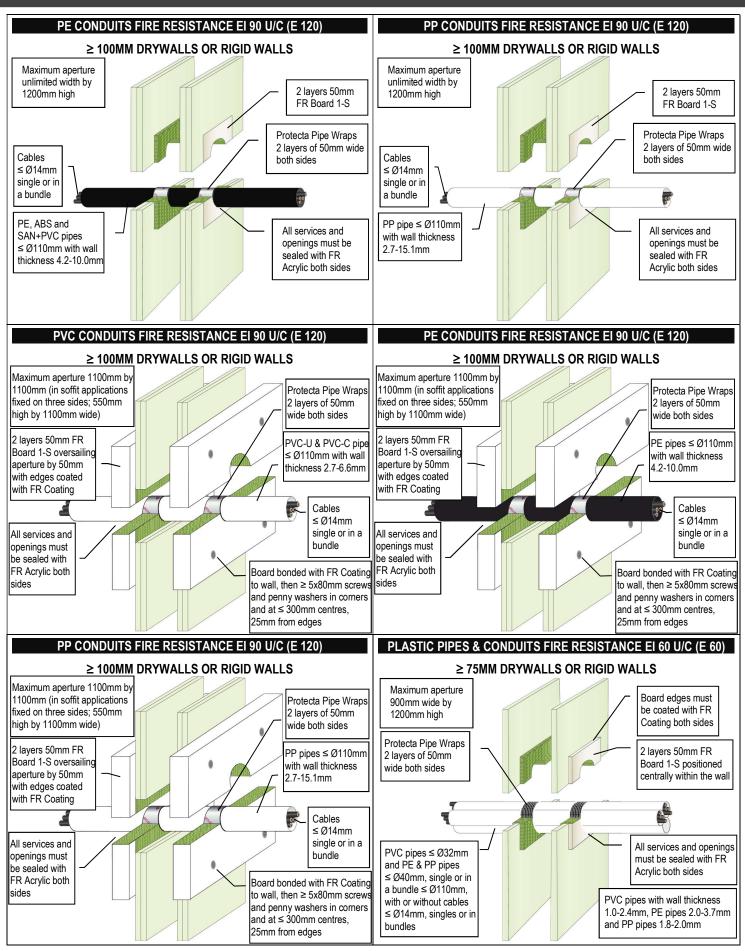


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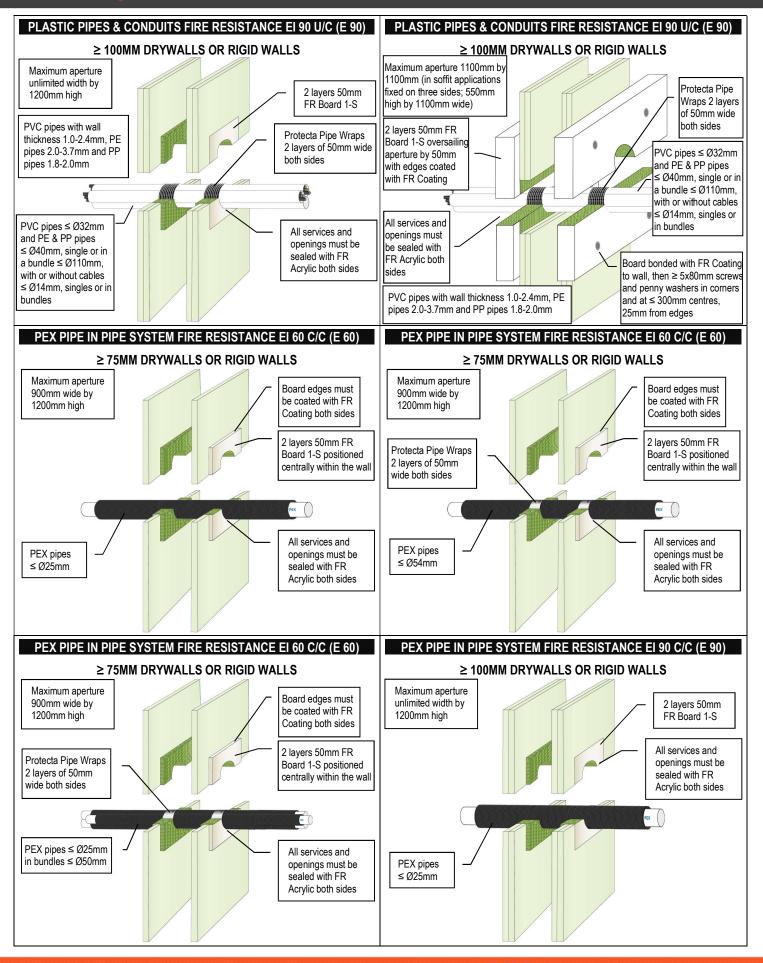


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# Protecta<sup>.</sup>

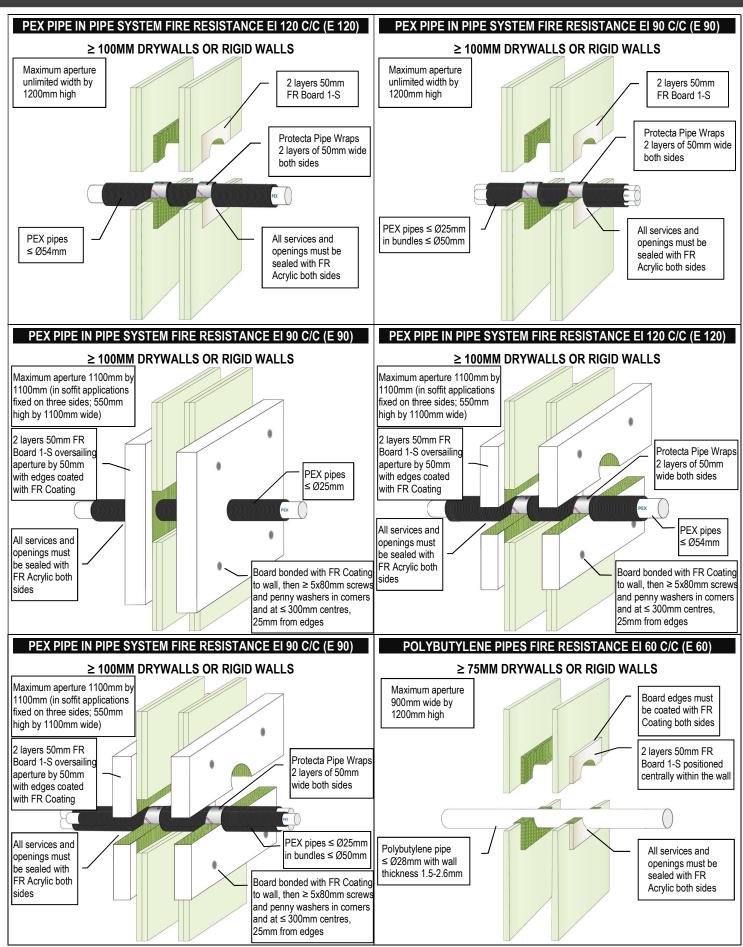
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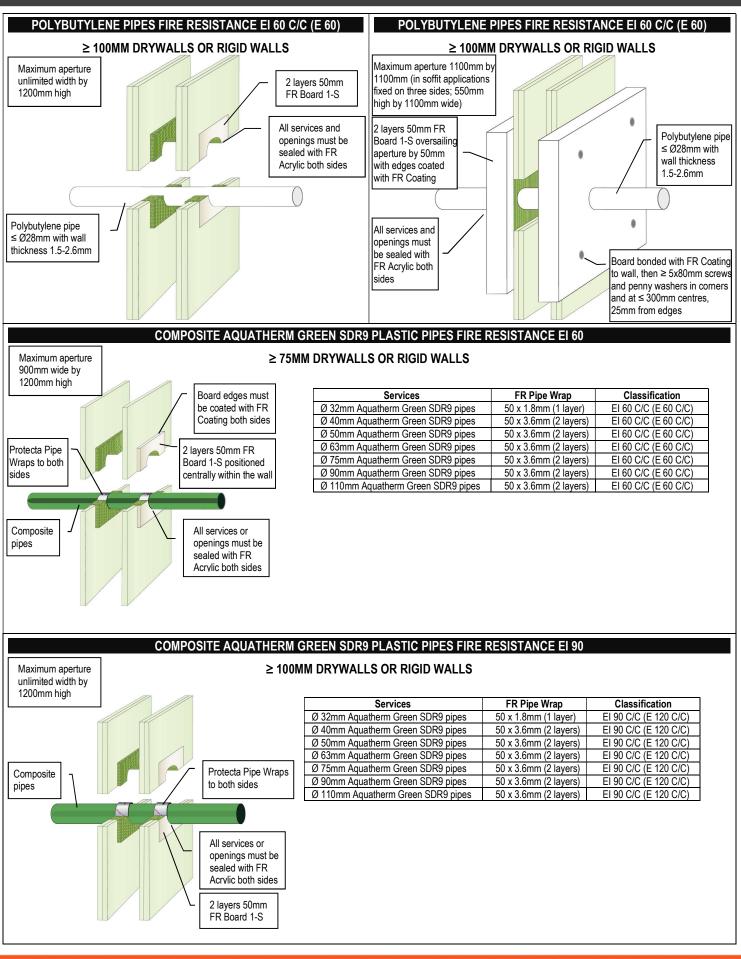


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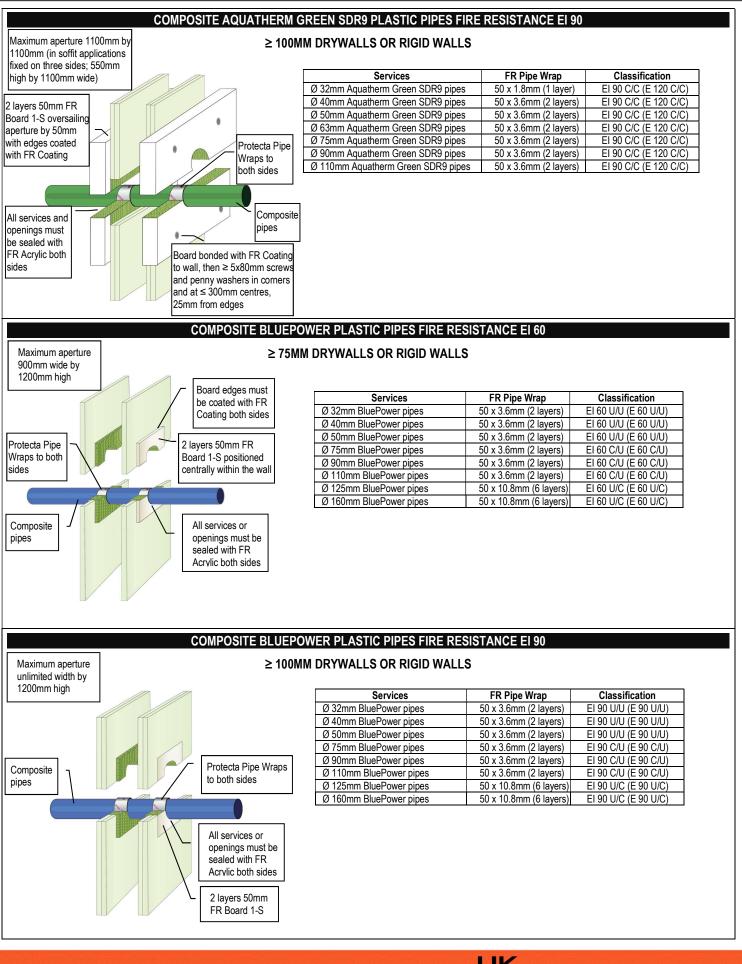




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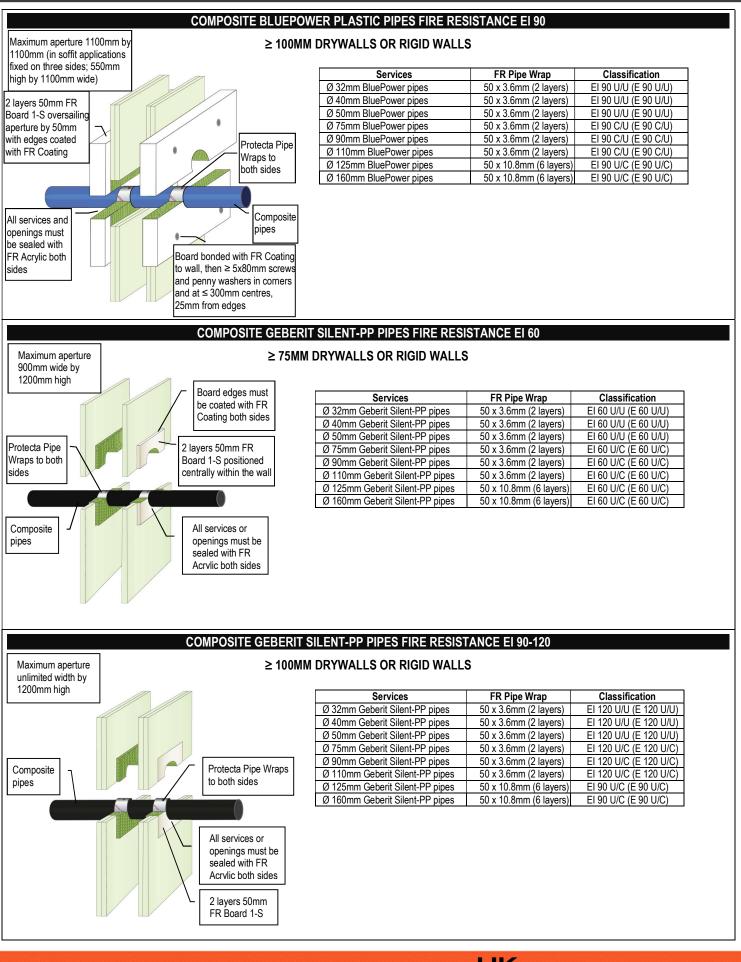


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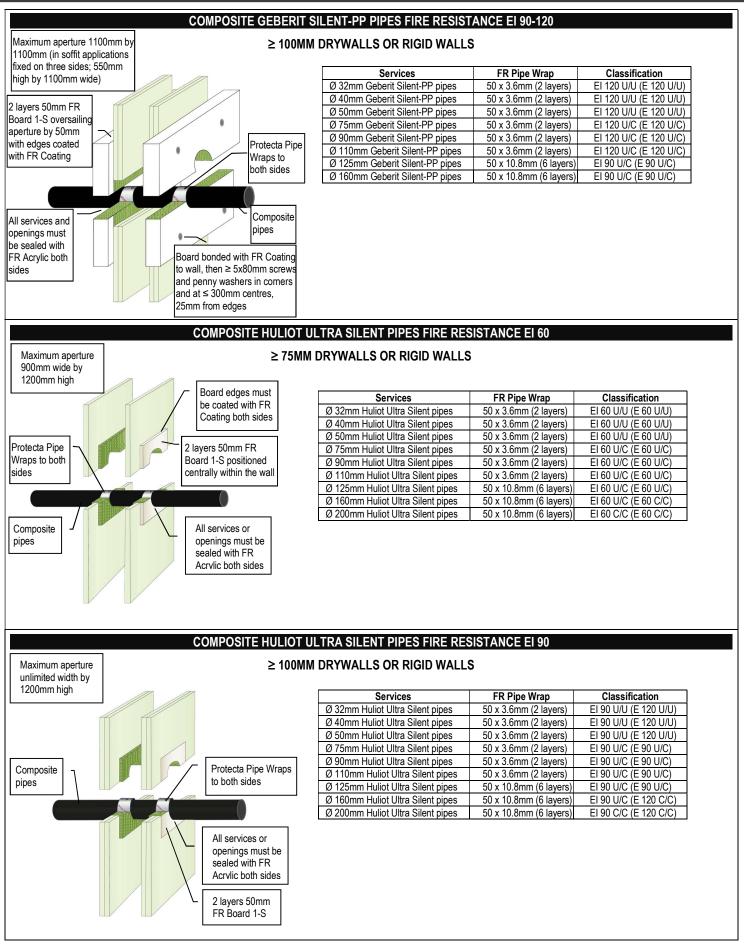


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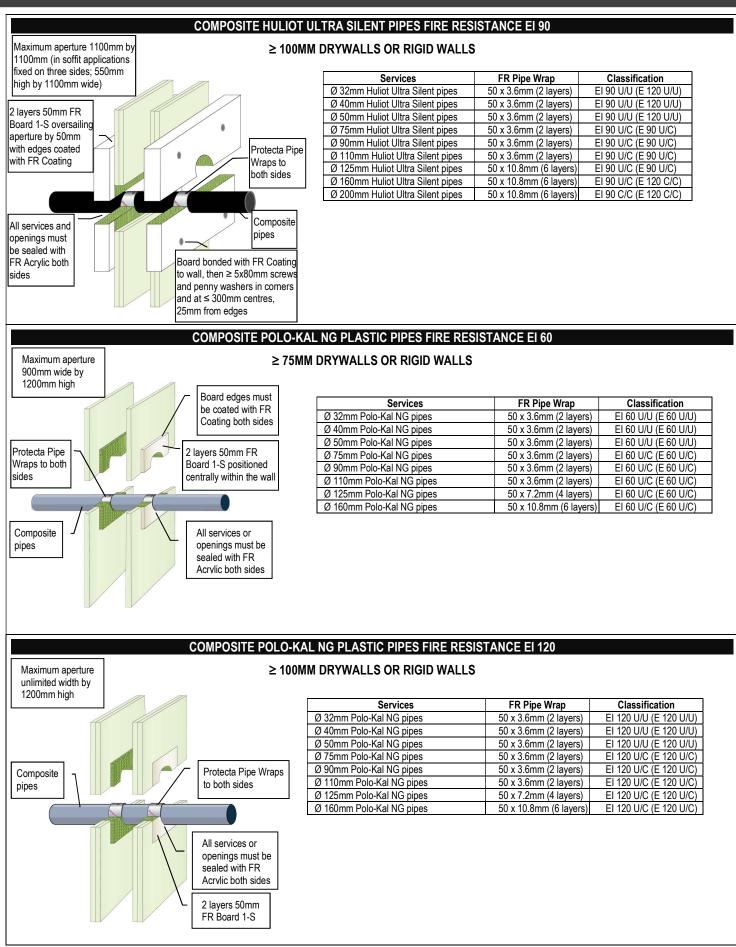


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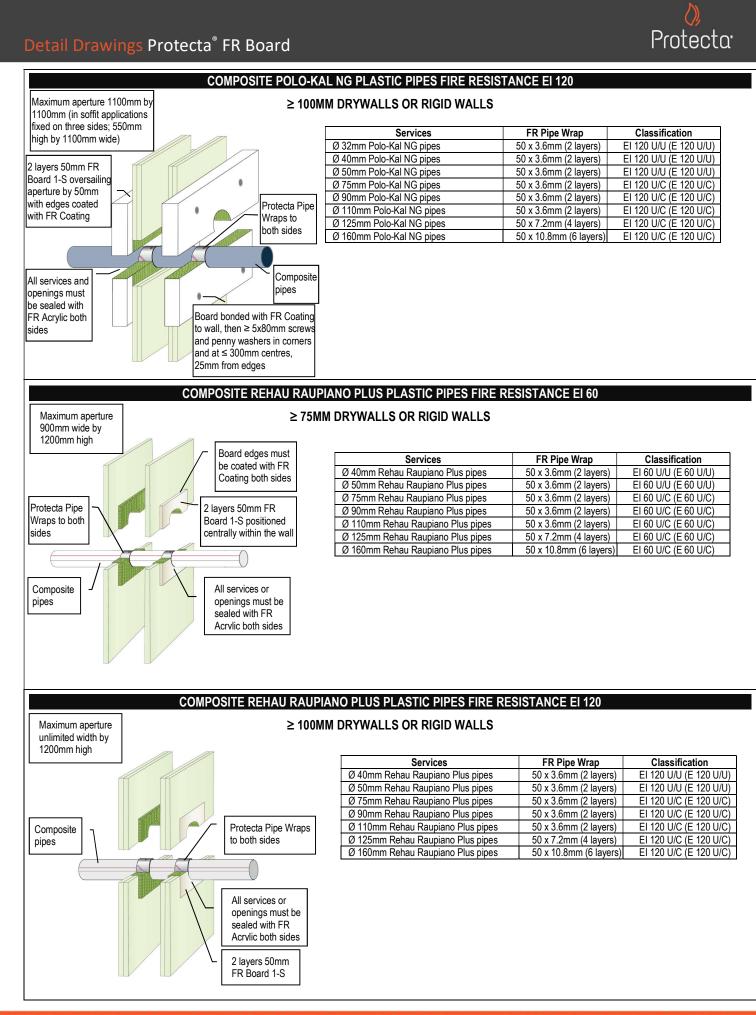
# Detail Drawings Protecta® FR Board



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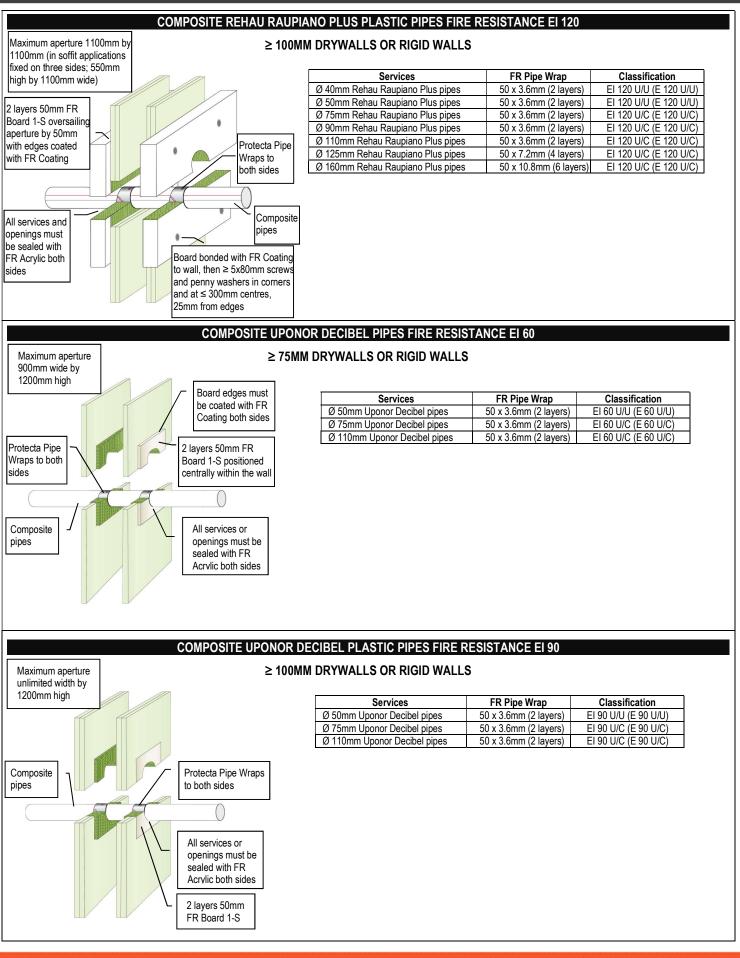


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8

Protecta Pipe

Composite

pipes

Board bonded with FR Coating

to wall, then ≥ 5x80mm screws and penny washers in corners and at ≤ 300mm centres, 25mm from edges

Wraps to both sides

Maximum aperture 1100mm by

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

2 layers 50mm FR Board 1-S oversailing

aperture by 50mm with edges coated

with FR Coating

All services and

openings must be sealed with

FR Acrylic both sides

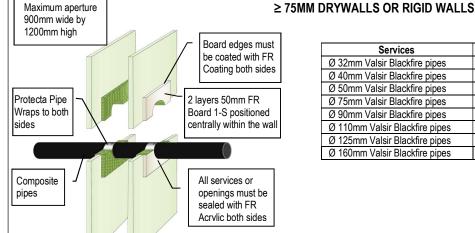




## ≥ 100MM DRYWALLS OR RIGID WALLS

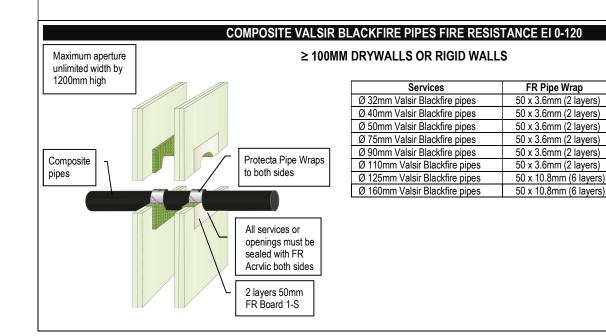
Services	FR Pipe Wrap	Classification
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
Ø 75mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)

## COMPOSITE VALSIR BLACKFIRE PIPES FIRE RESISTANCE EI 0-60



## Services FR Pipe Wrap Г

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



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Classification

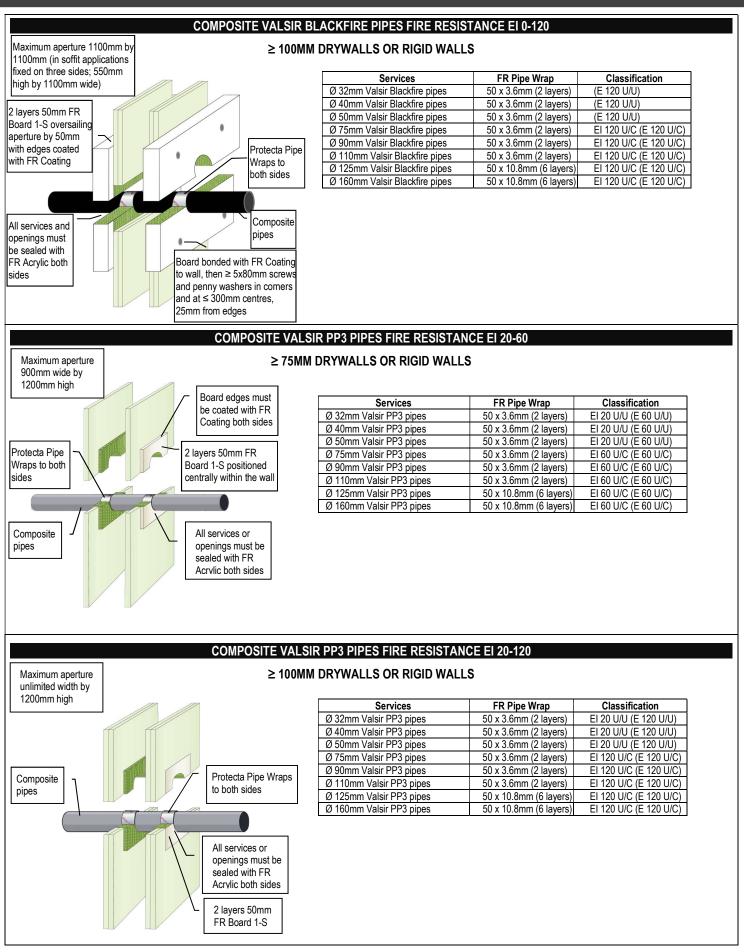
EI 120 U/C (E 120 U/C)

(E 120 U/U)

(E 120 U/U)

(E 120 U/U)

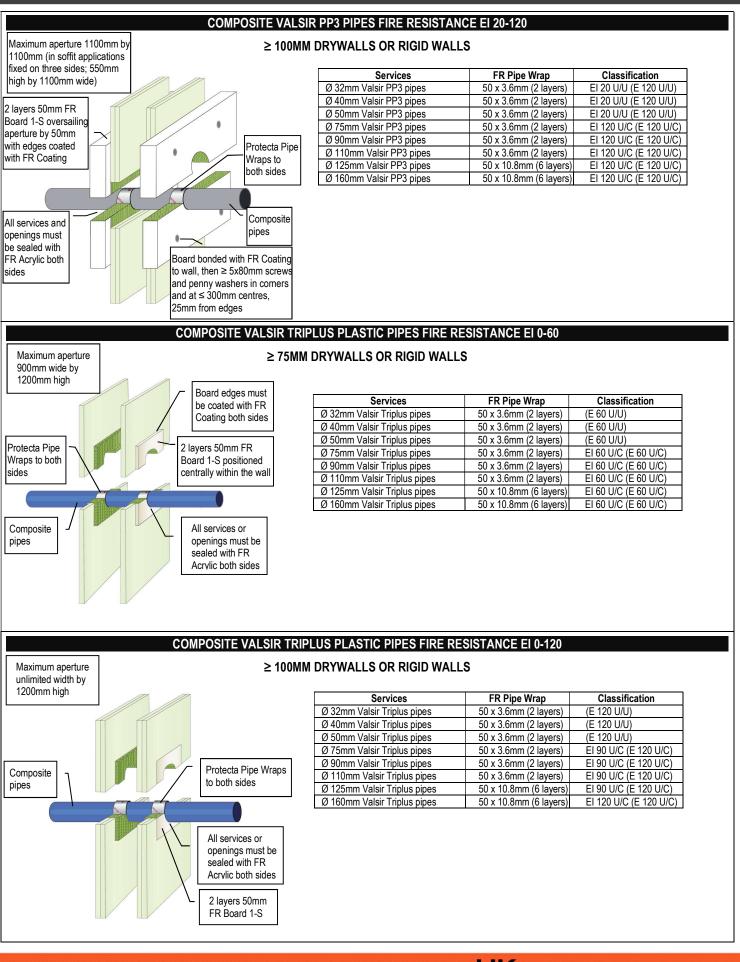
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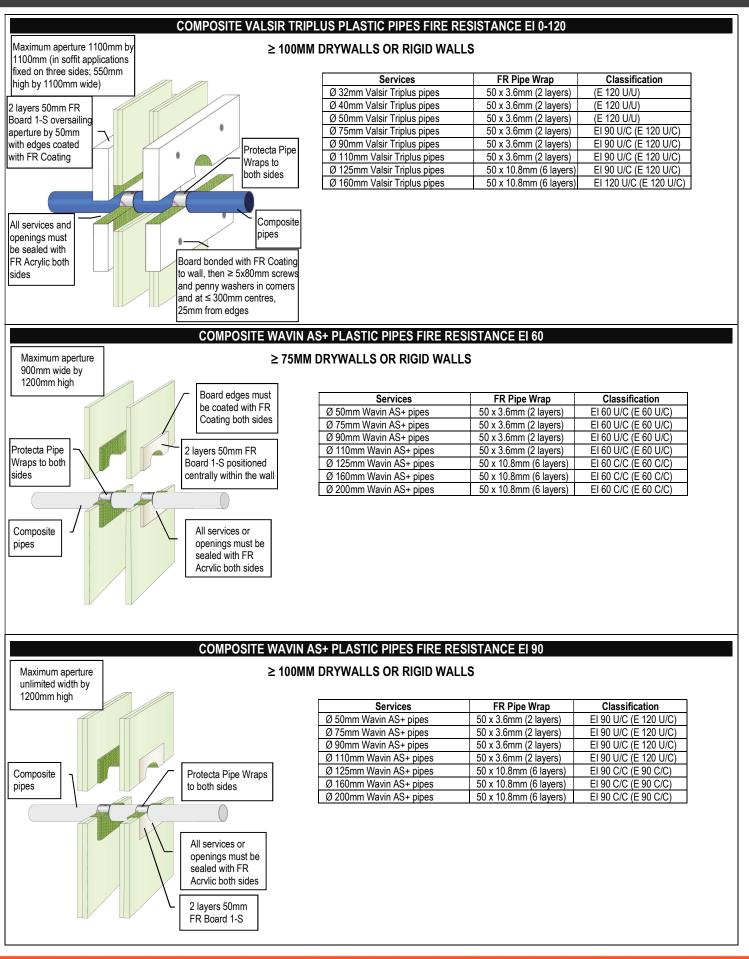


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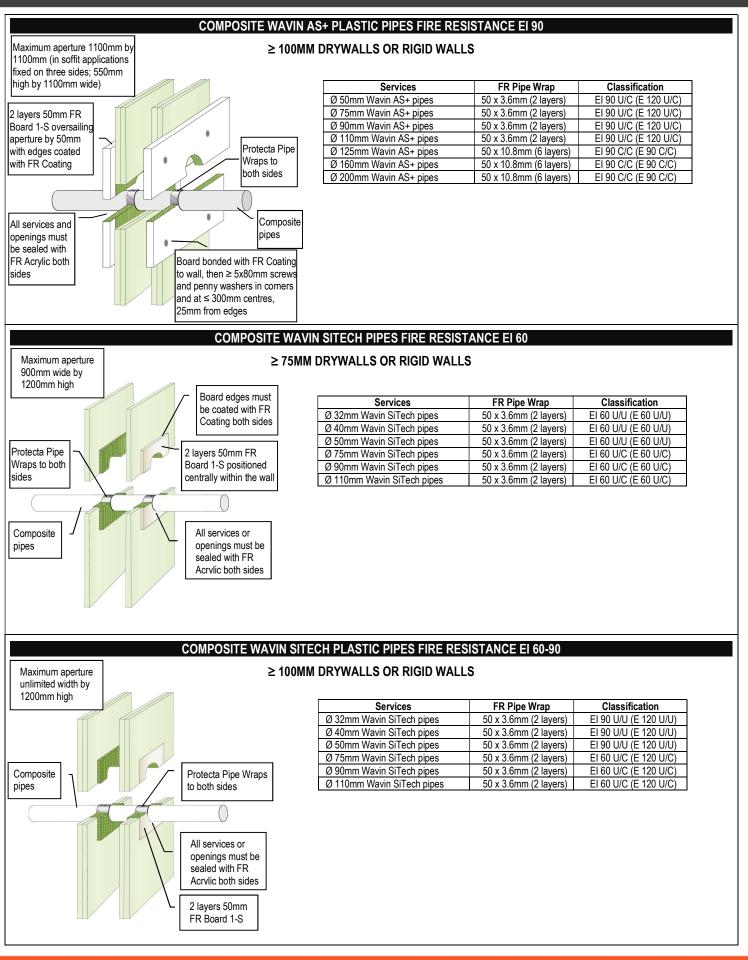
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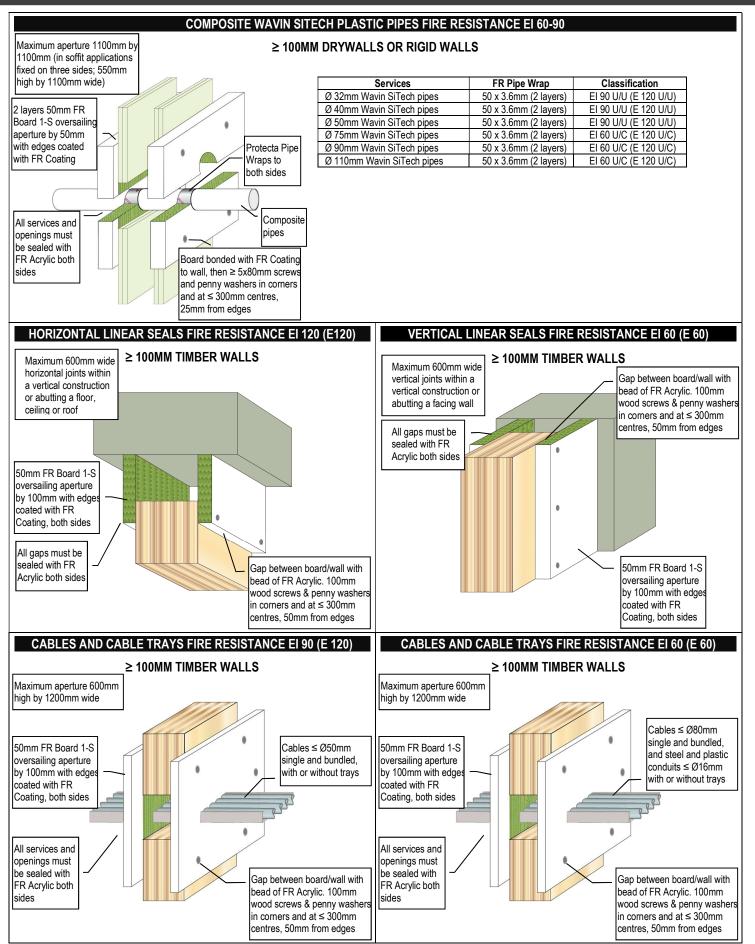


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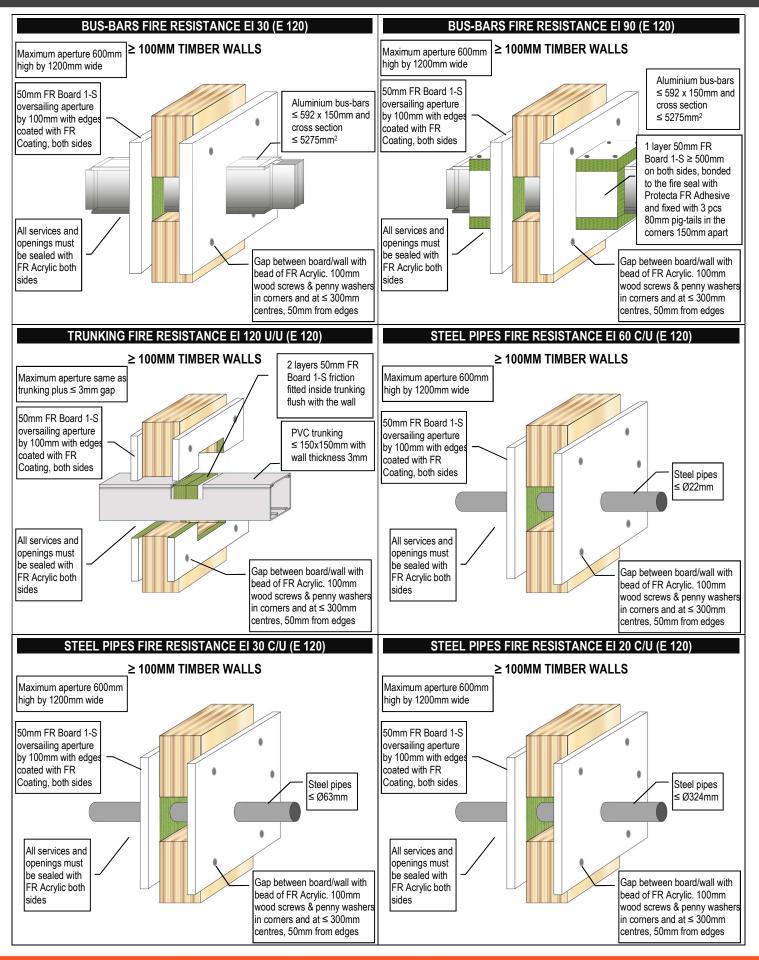


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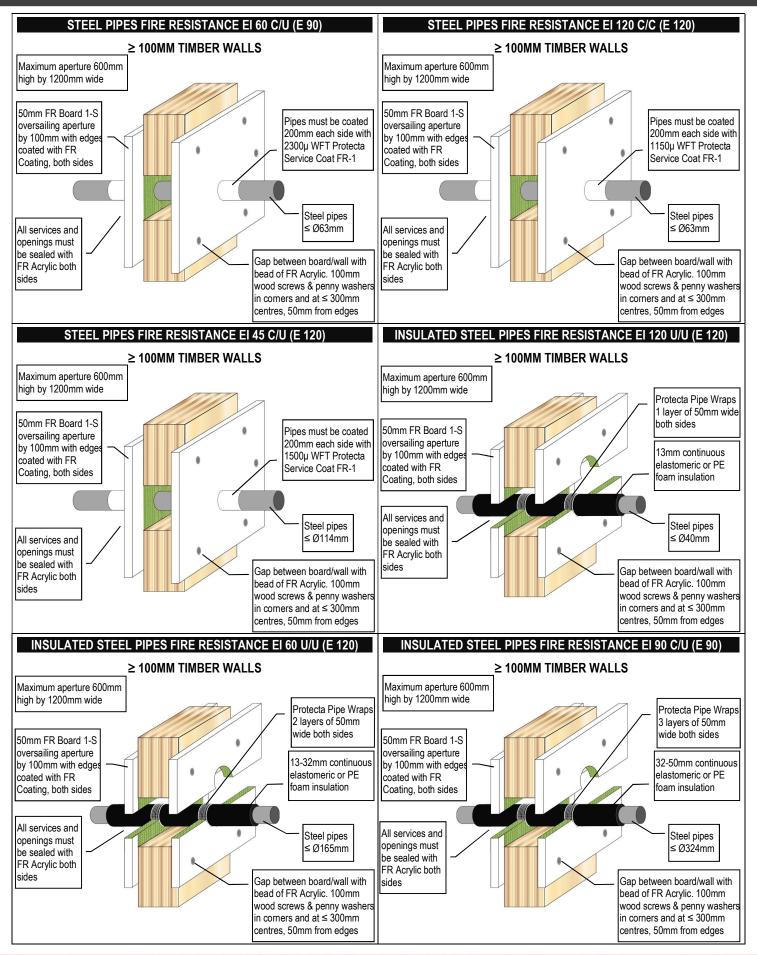




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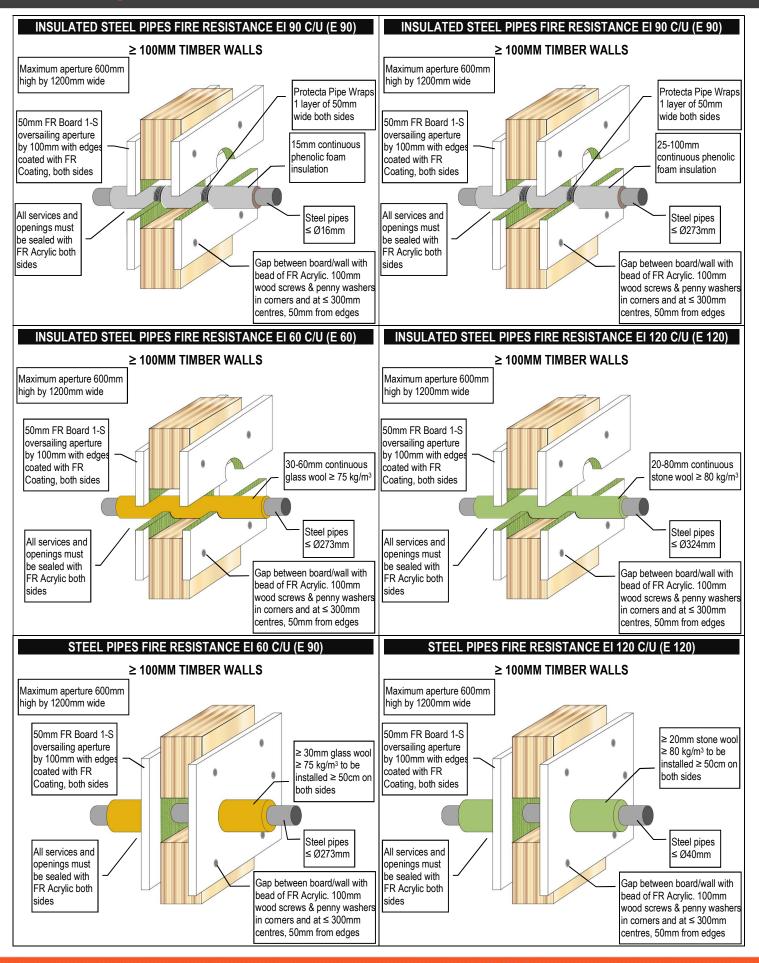
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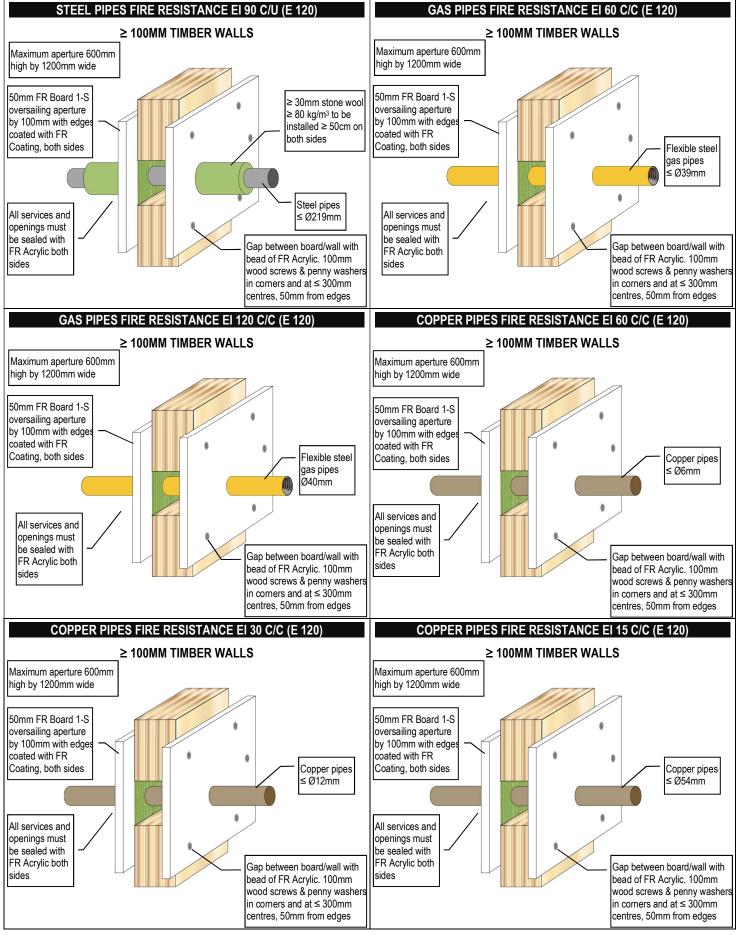


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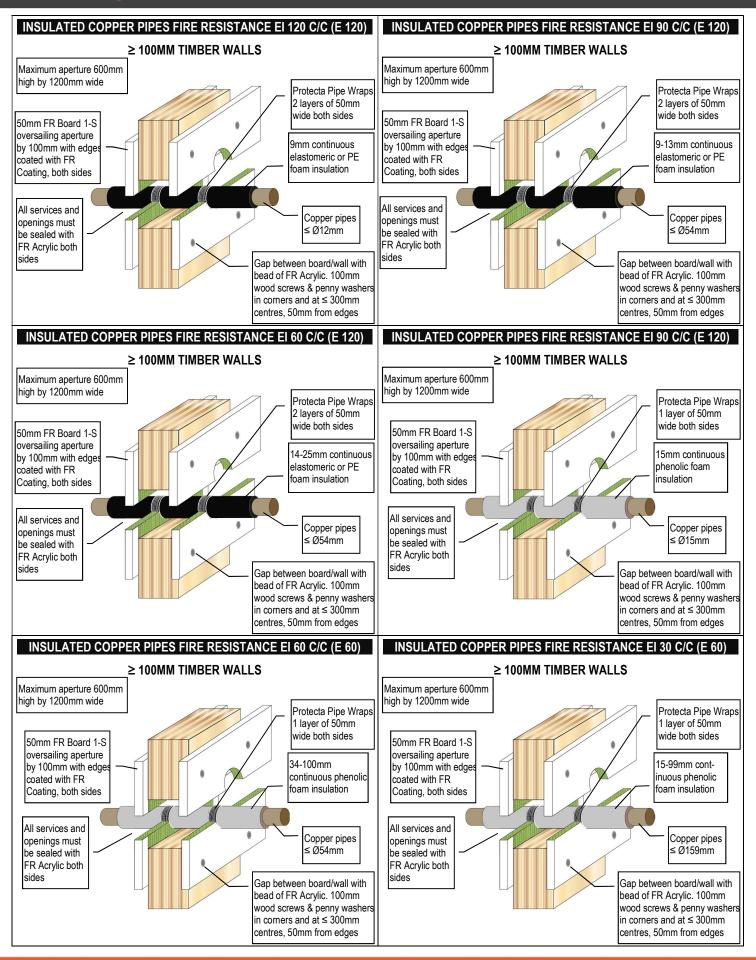
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# Nrotecta<sup>®</sup>

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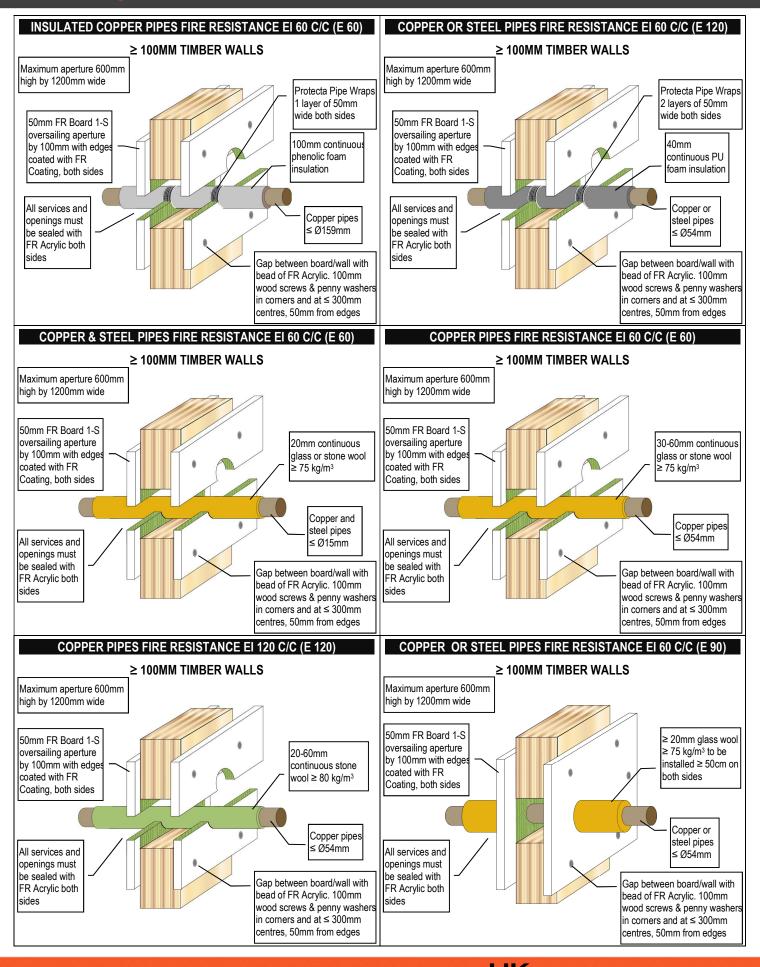


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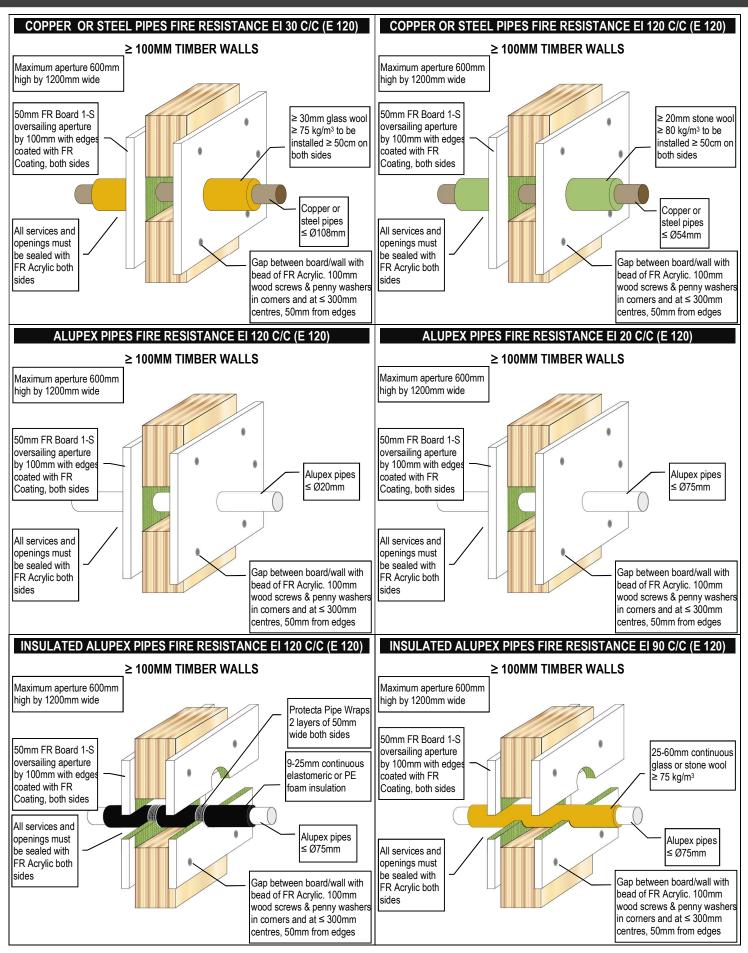
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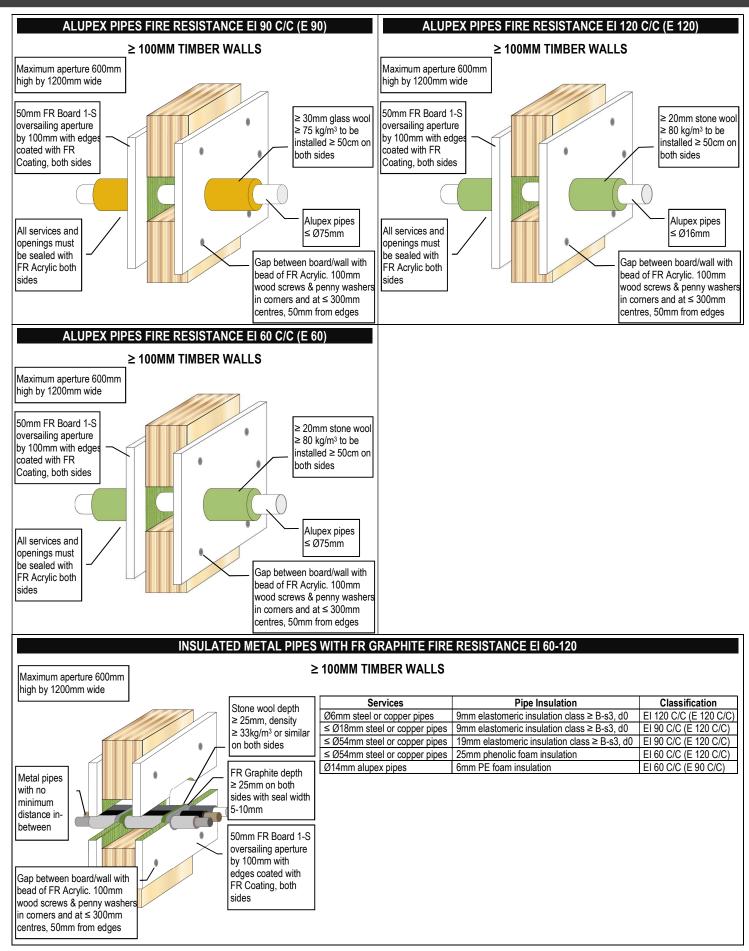


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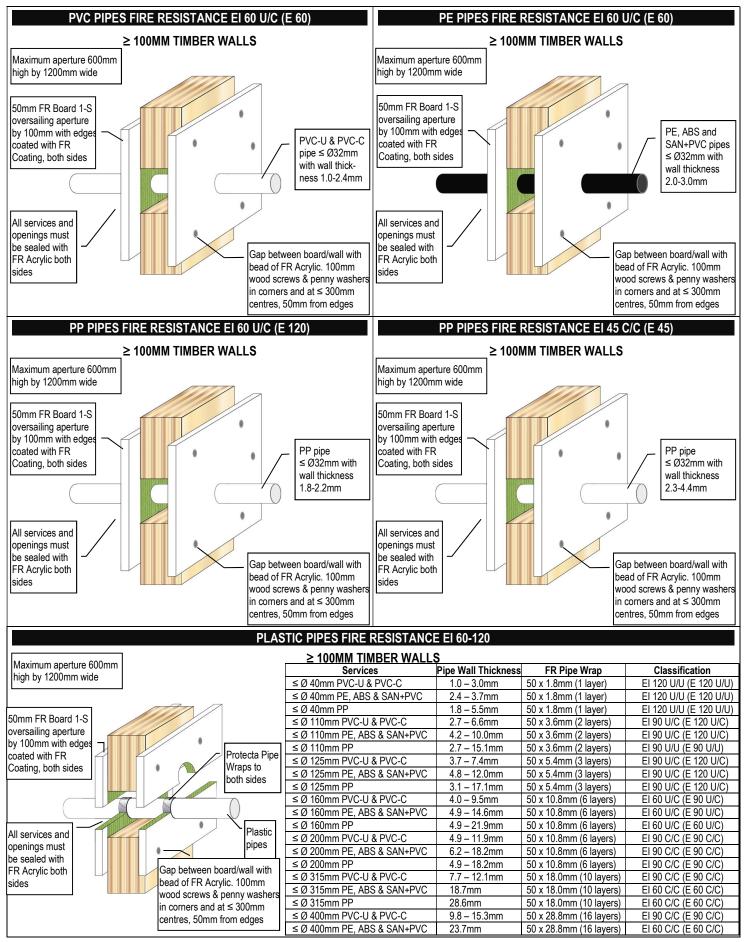


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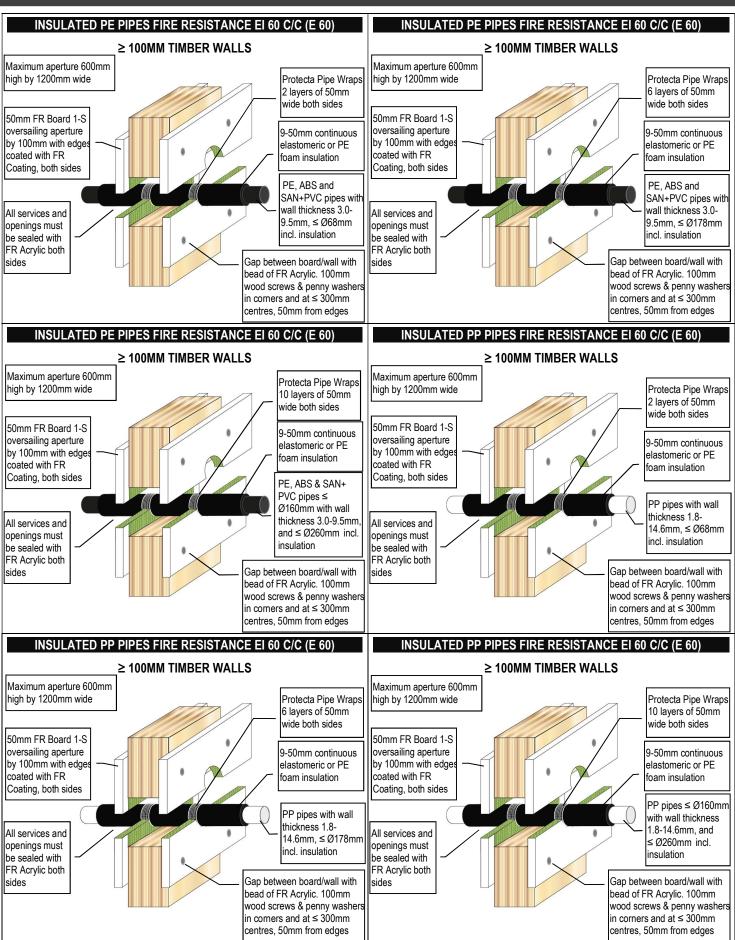


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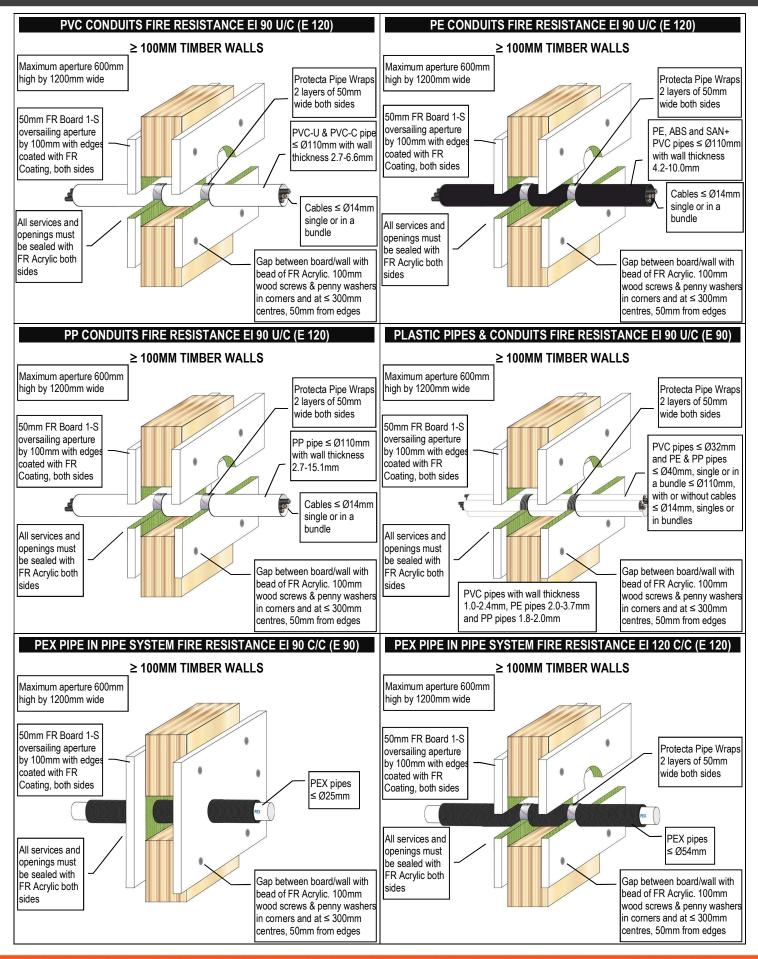


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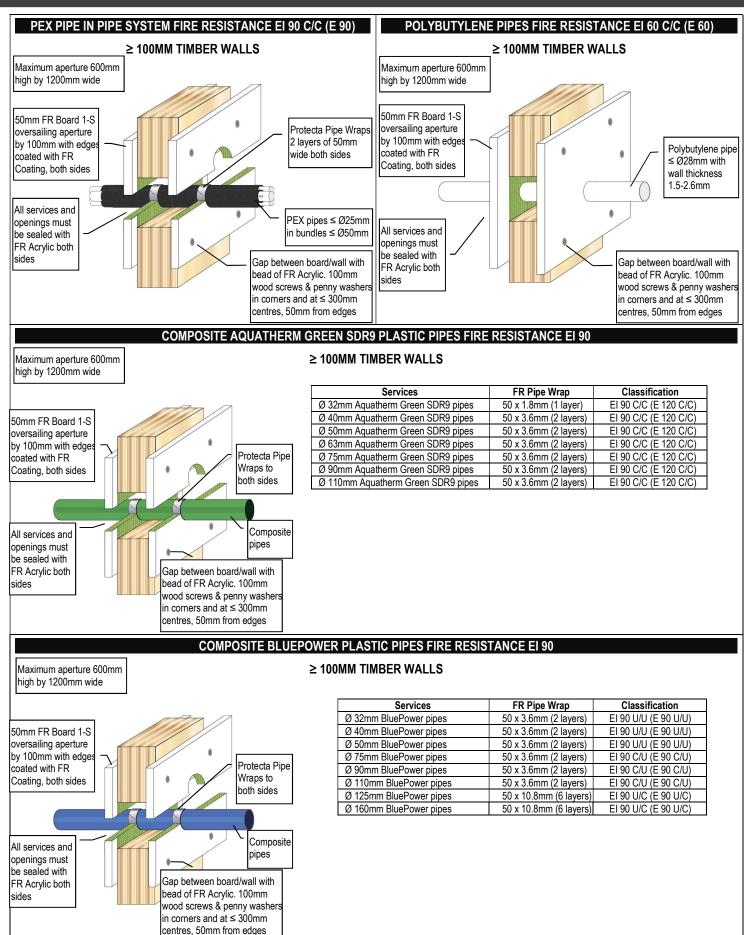






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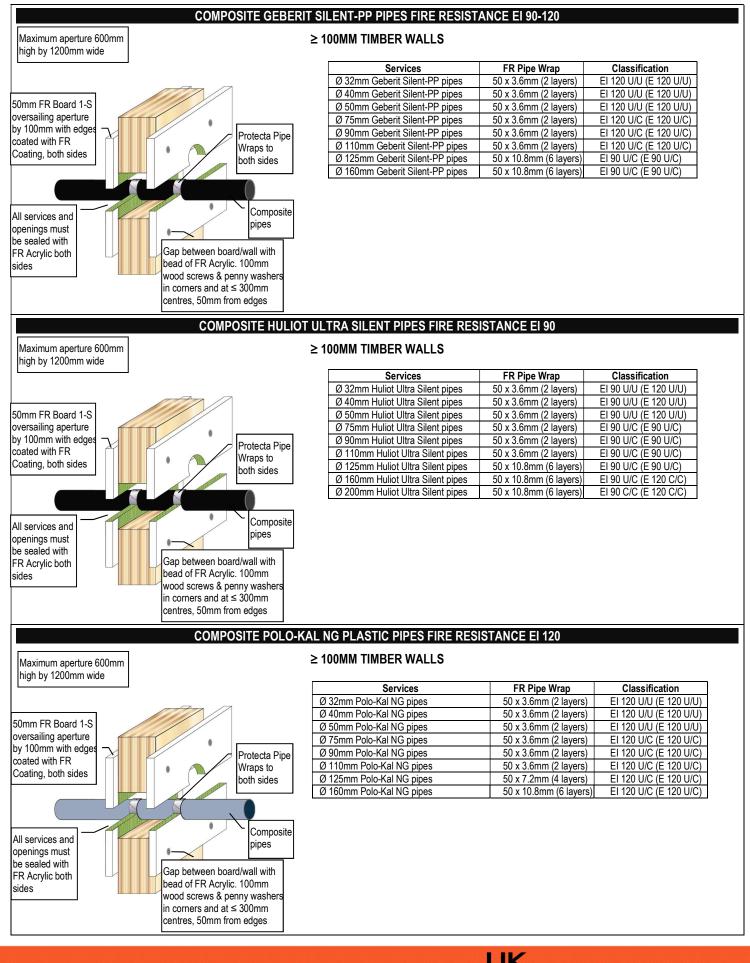
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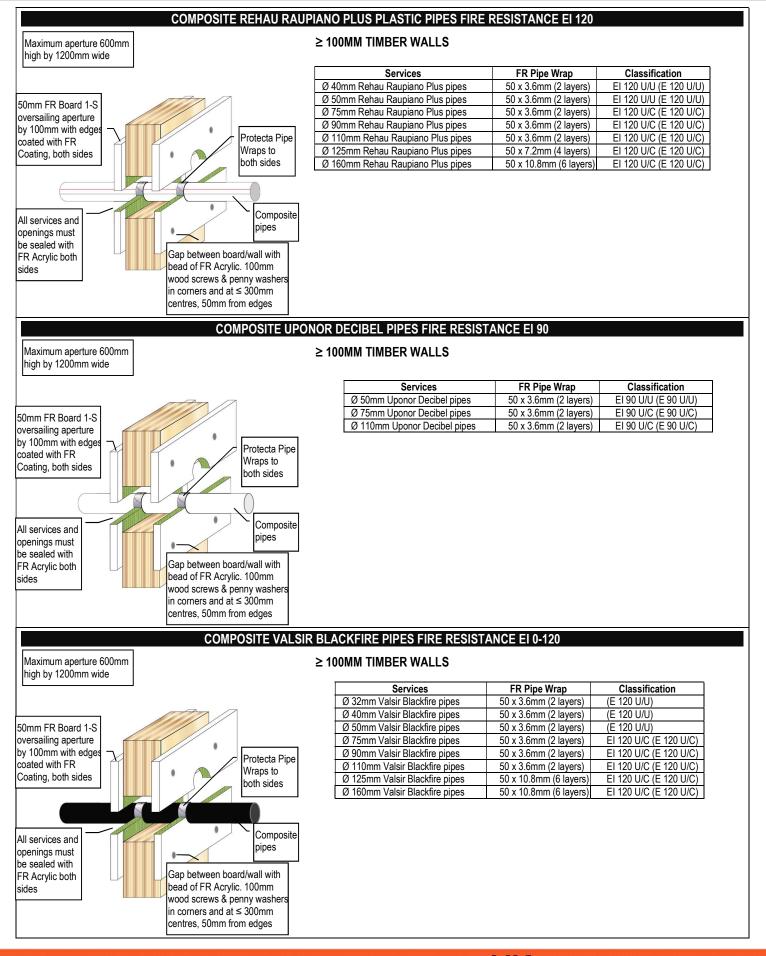


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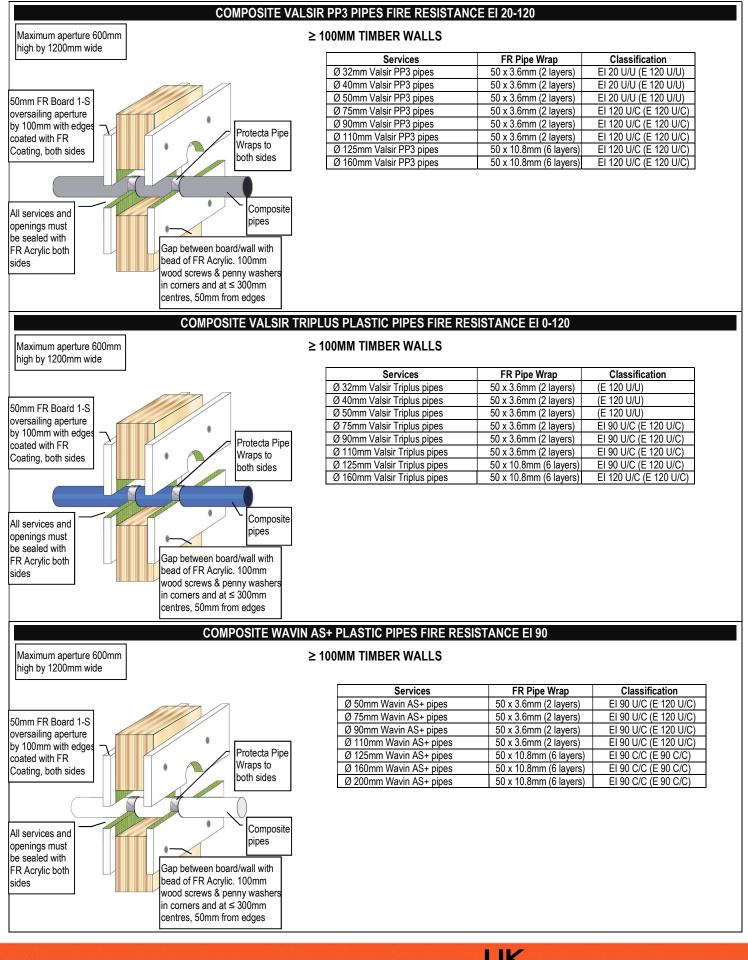


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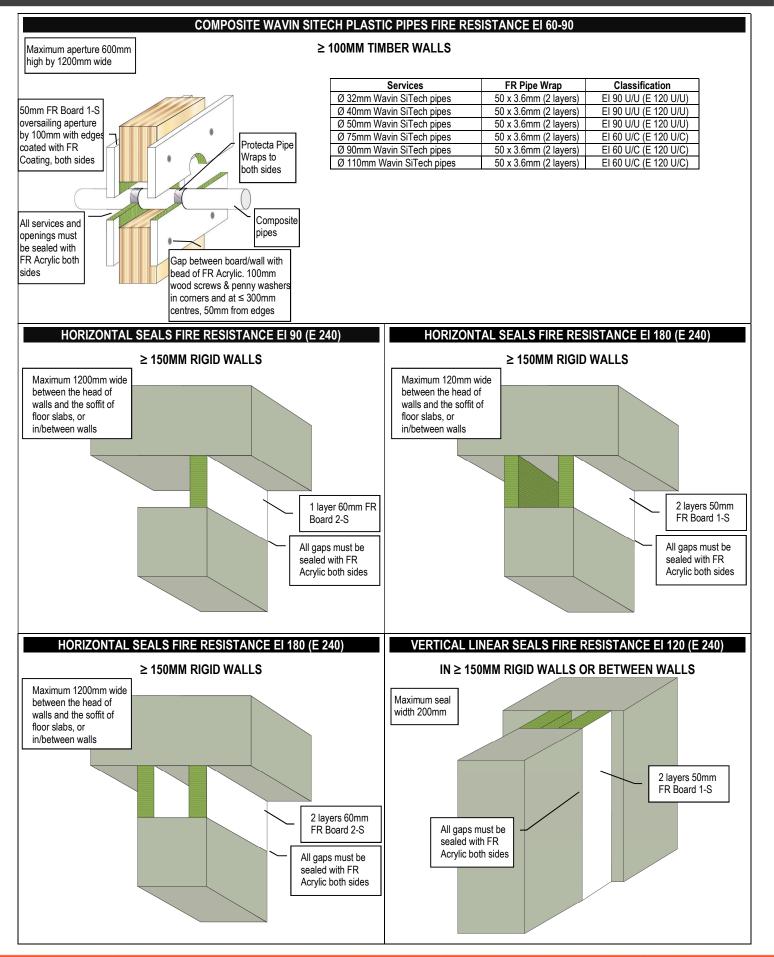


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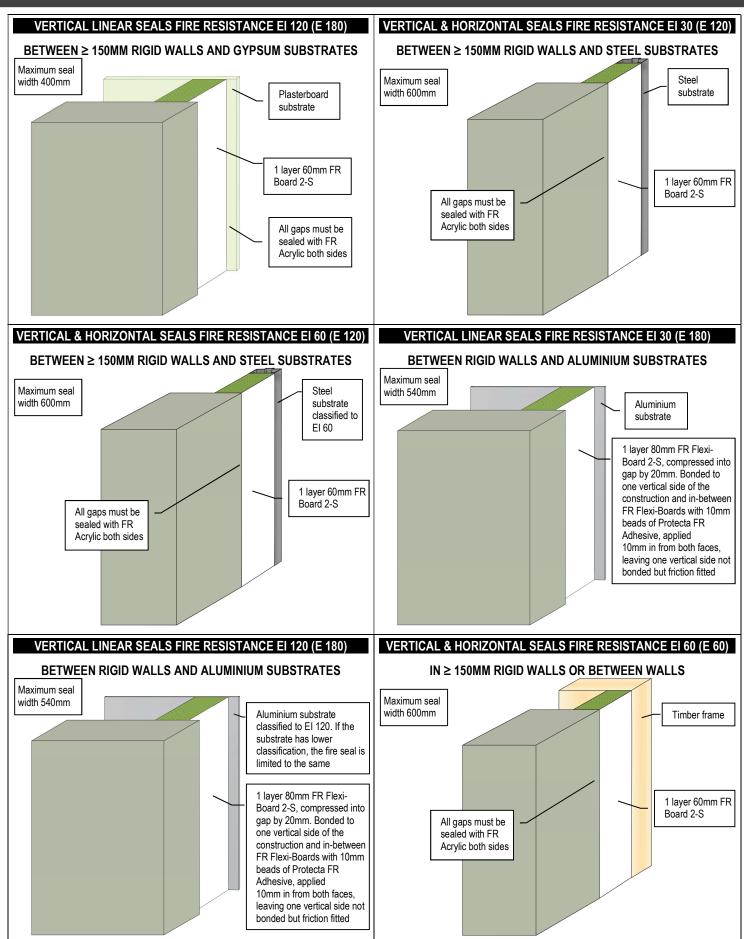
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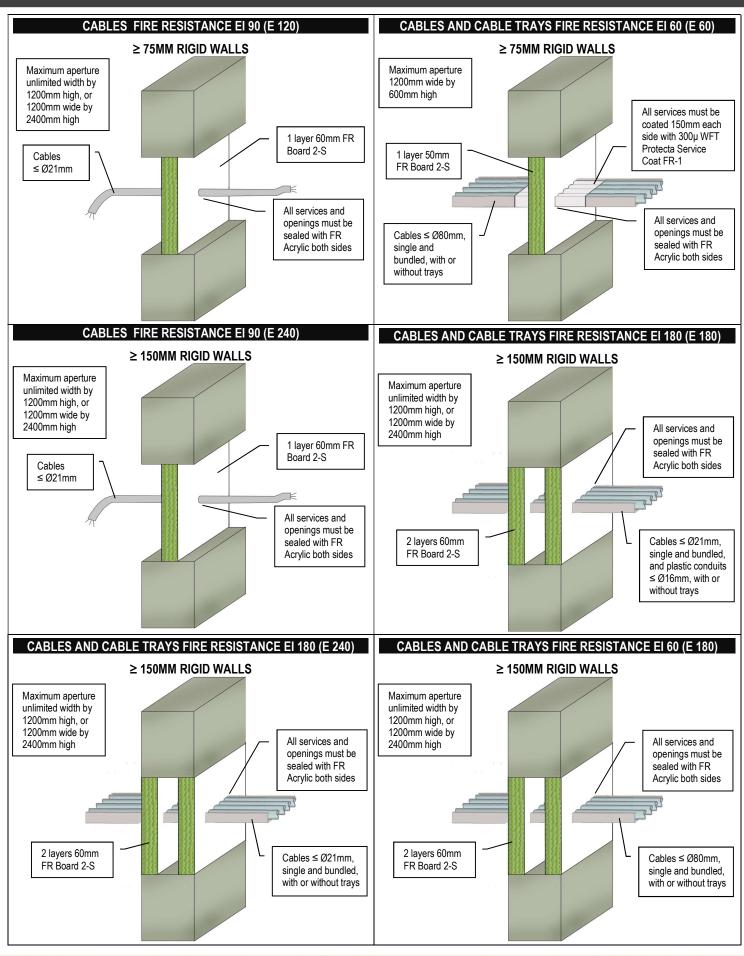
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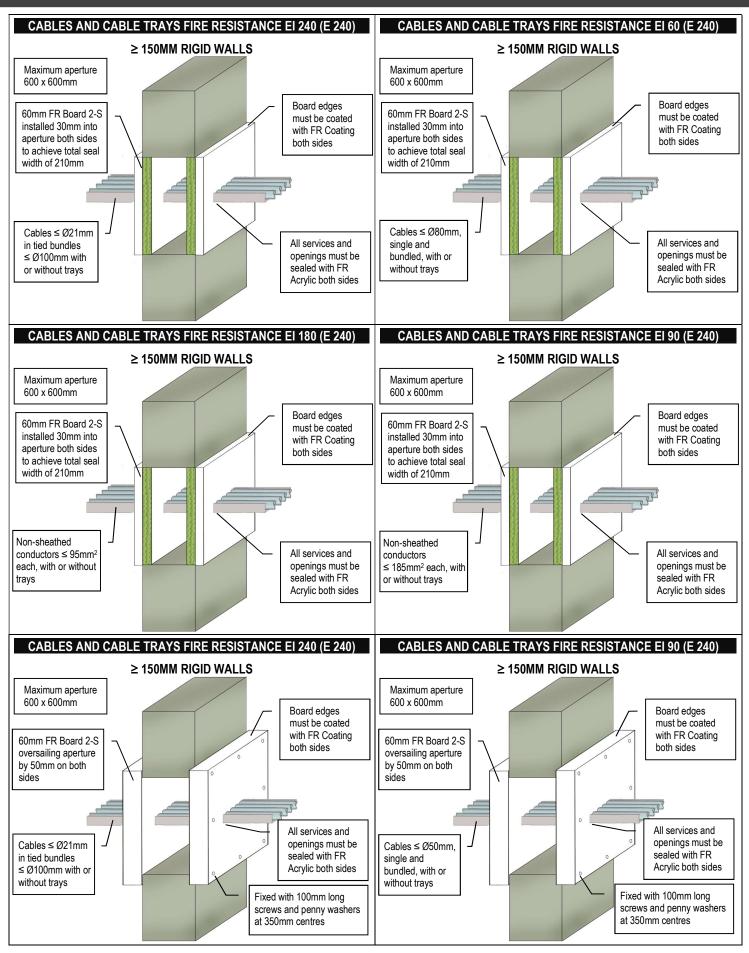
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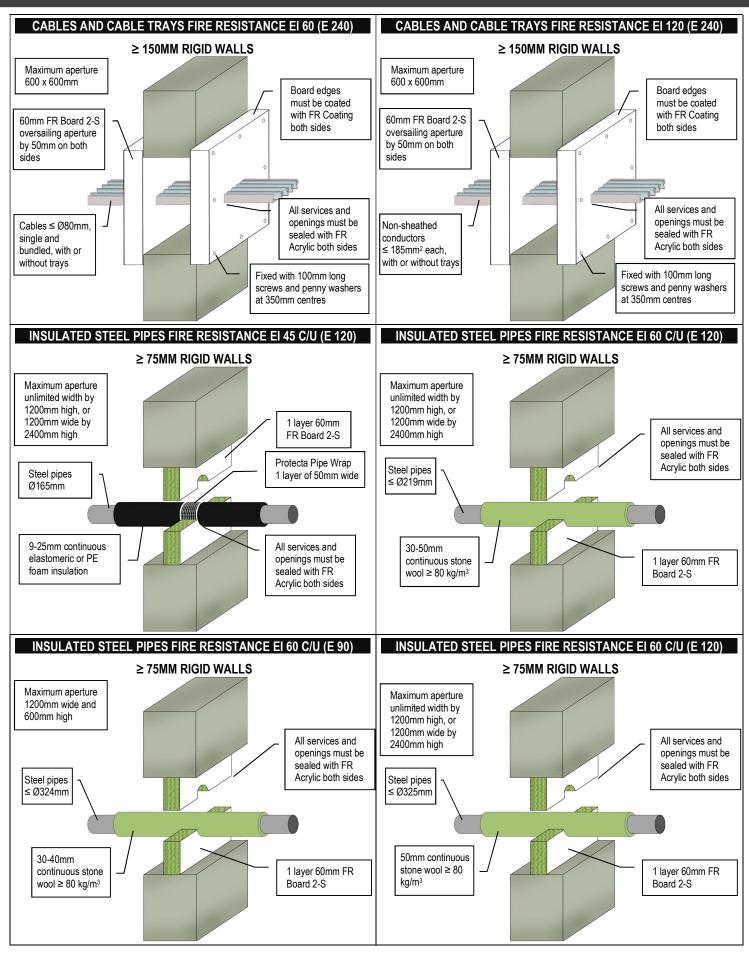


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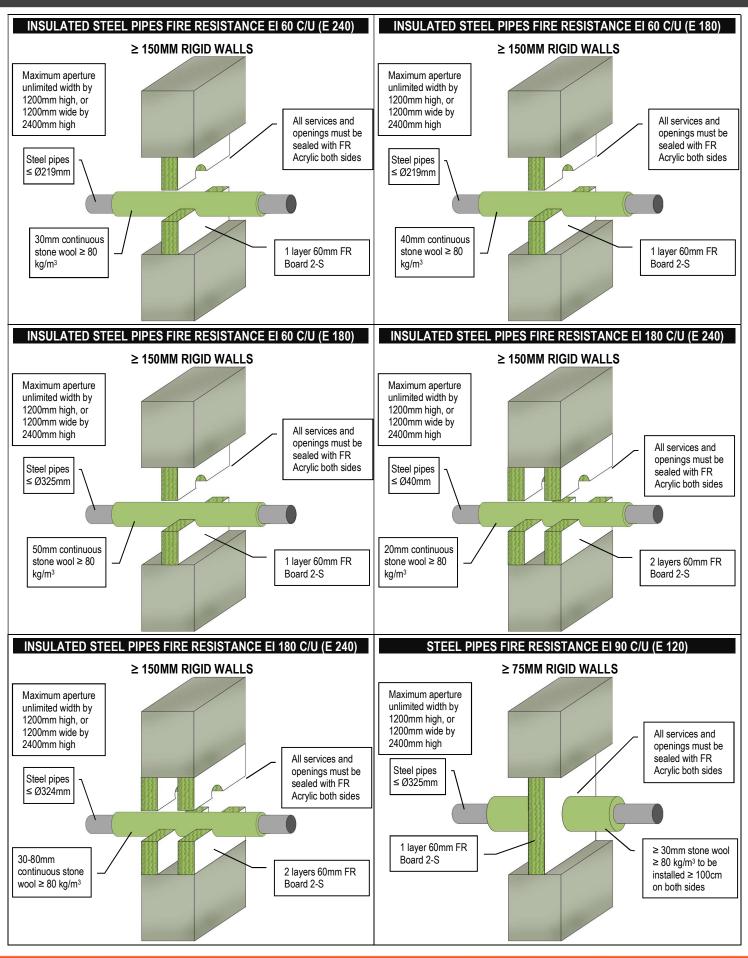


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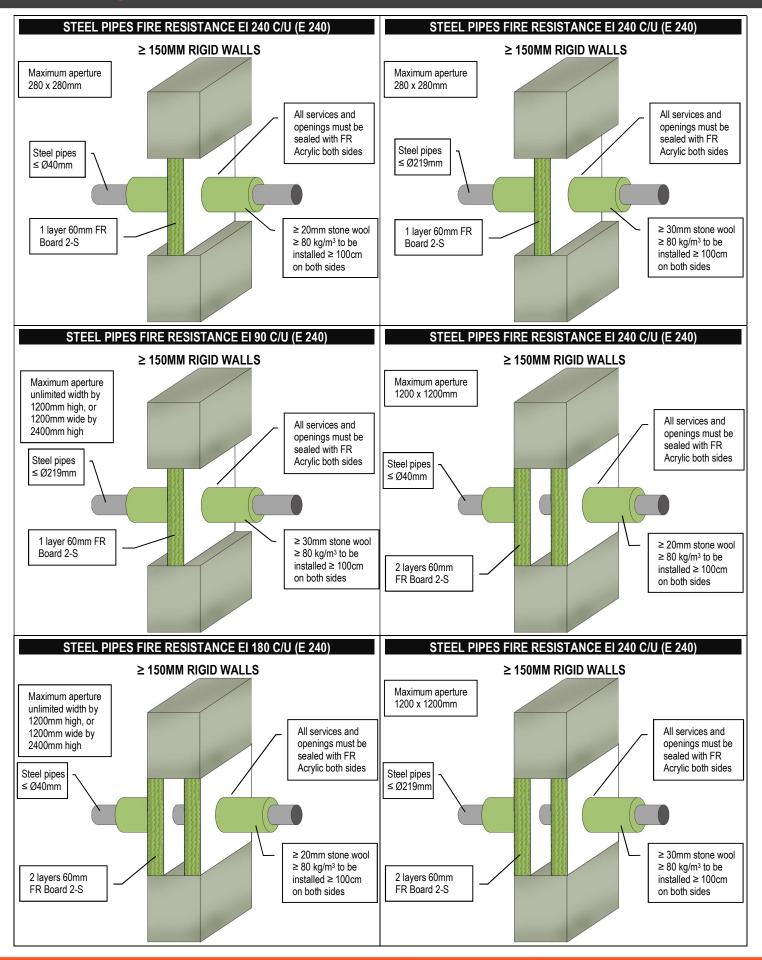
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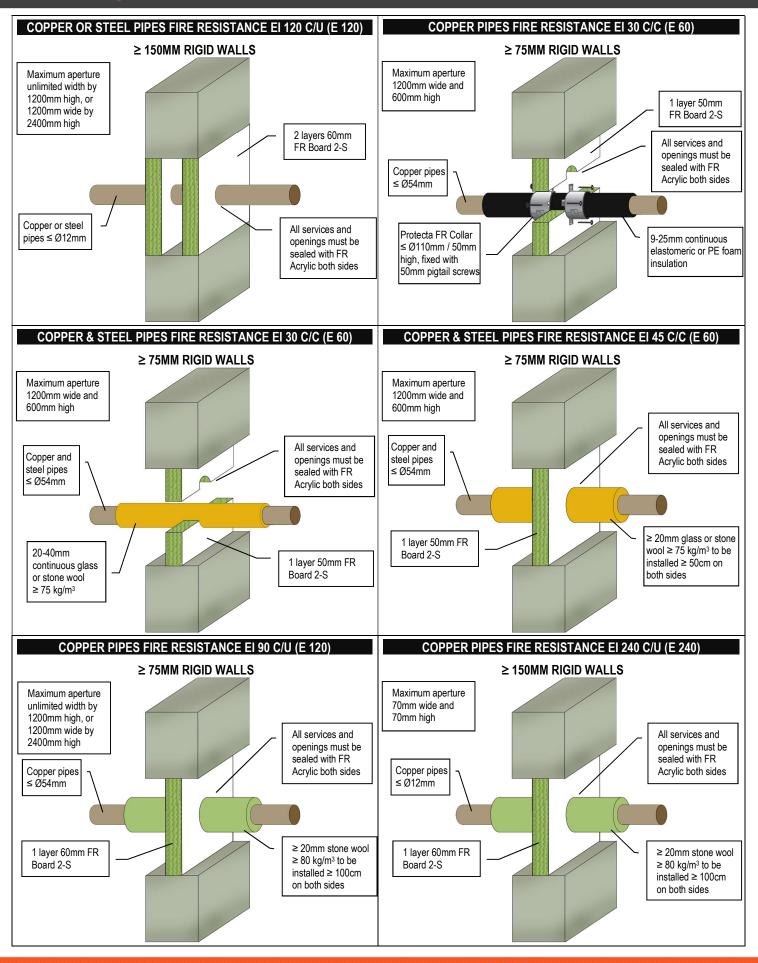


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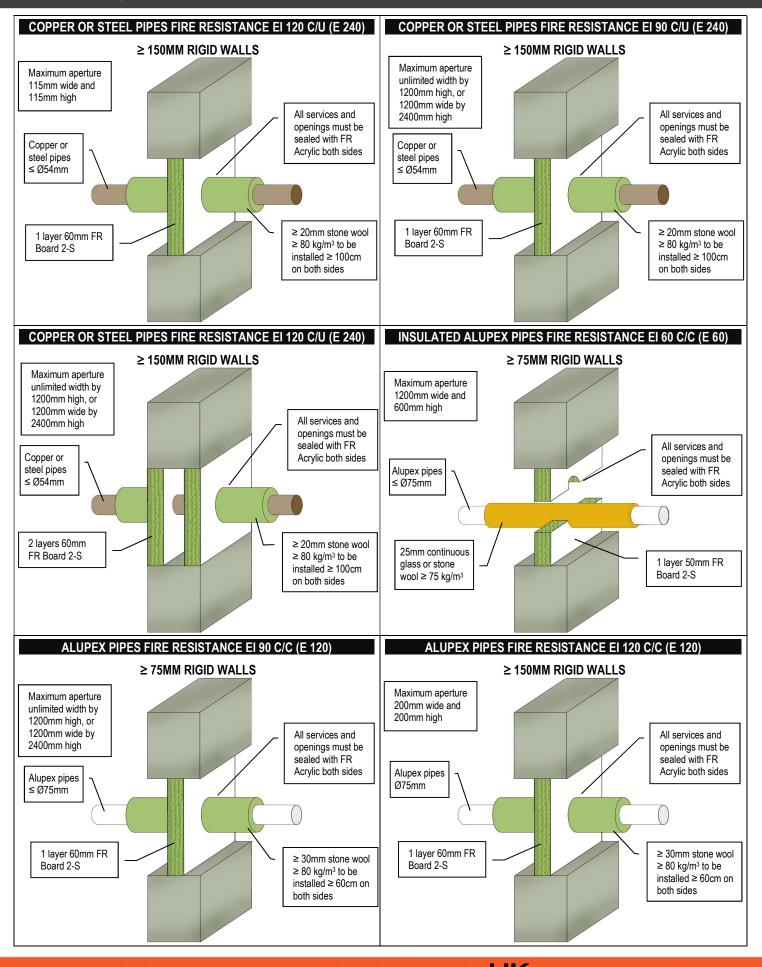
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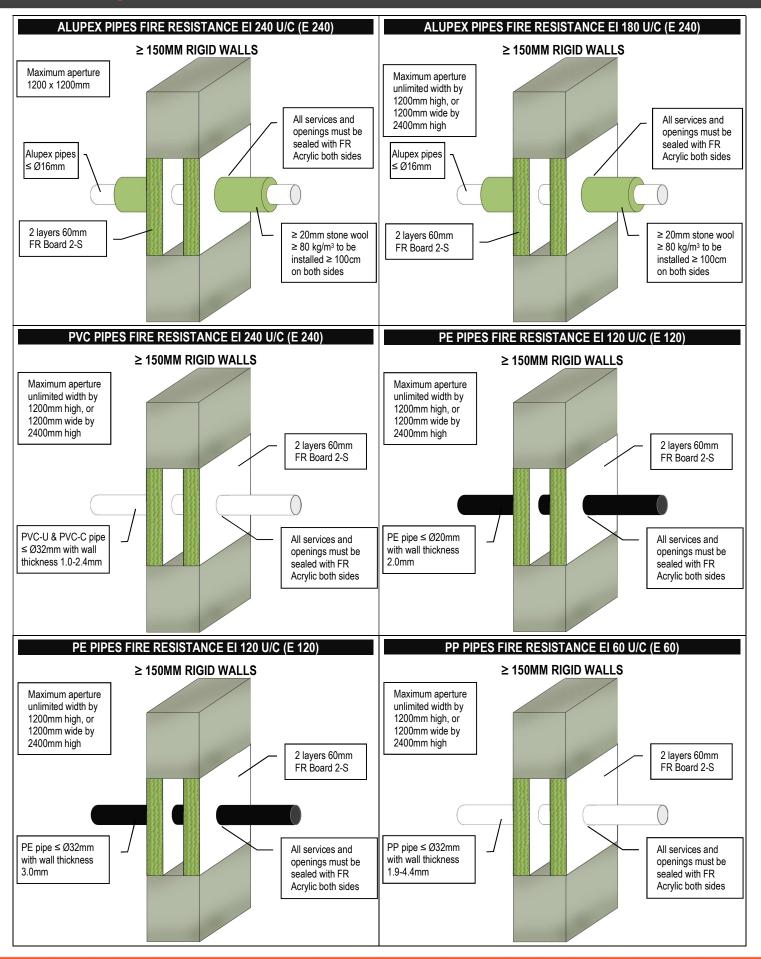
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Classification

30mm

50mm

50mm

60mm

30mm

50mm

50mm

60mm

50mm

50mm

60mm

50 x 1.8mm (1 layer)

50 x 1.8mm (1 layer)

50 x 1.8mm (1 layer)

50 x 3.6mm (2 layers)

50 x 3.6mm (2 layers)

50 x 3.6mm (2 layers)

50 x 7.2mm (4 layers)

50 x 7.2mm (4 layers)

50 x 7.2mm (4 layers)

50 x 10.8mm (6 layers)

50 x 10.8mm (6 layers)

50 x 10.8mm (6 layers)

75 x 10.8mm (6 layers)

75 x 10.8mm (6 layers) 75 x 10.8mm (6 lavers)

75 x 18.0mm (10 layers)

75 x 18.0mm (10 layers)

75 x 18.0mm (10 layers)

75 x 28.8mm (16 layers)

75 x 28.8mm (16 layers)

75 x 28.8mm (16 layers)

EI 30 U/C (E 90 U/C)

EI 60 U/C (E 120 U/C)

EI 60 U/C (E 90 U/C)

EI 60 C/C (E 60 C/C)

EI 45 U/C (E 60 U/C)

EI 60 U/C (E 120 U/C)

EI 60 C/C (E 90 C/C)

EI 60 C/C (E 60 C/C) EI 60 C/C (E 60 C/C)

EI 60 C/C (E 60 C/C)

EI 60 C/C (E 60 C/C)

Classification

EI 240 U/C (E 240 U/C)

EI 240 U/C (E 240 U/C) EI 240 C/C (E 240 C/C)

EI 240 U/C (E 240 U/C)

EI 240 U/C (E 240 U/C)

EI 240 C/C (E 240 C/C)

EI 240 U/C (E 240 U/C)

EI 240 U/C (E 240 U/C)

EI 240 C/C (E 240 C/C)

EI 180 C/C (E 180 C/C)

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EI 180 C/C (E 180 C/C)

EI 120 C/C (E 120 C/C)

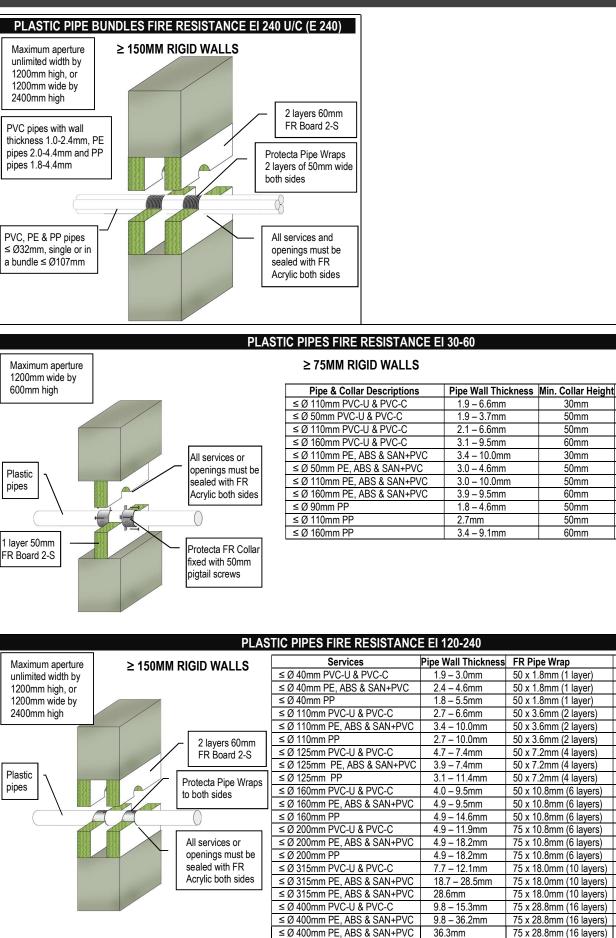
EI 60 C/C (E 180 C/C)

EI 120 C/C (E 180 C/C)

EI 120 C/C (E 120 C/C)

EI 120 C/C (E 120 C/C)

EI 30 C/C (E 30 C/C)



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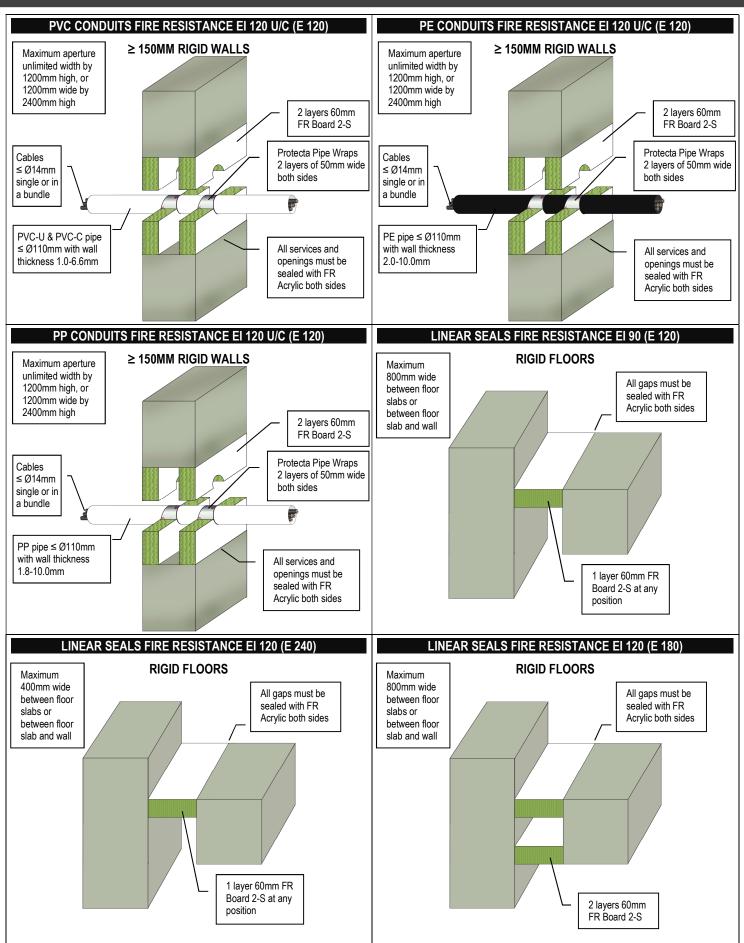


36.3mm

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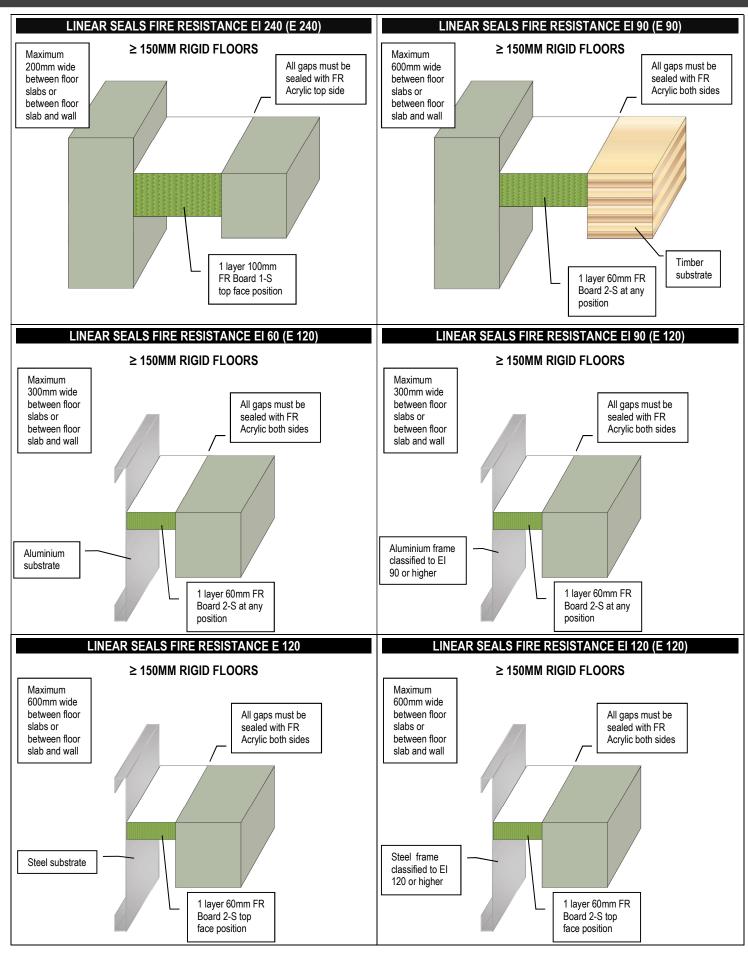
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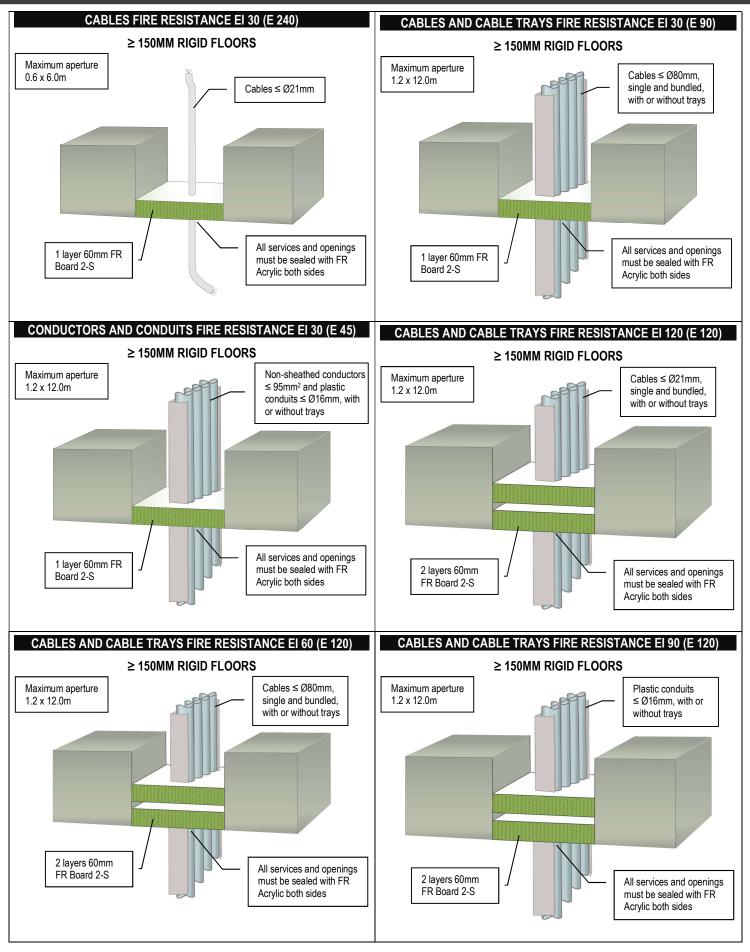
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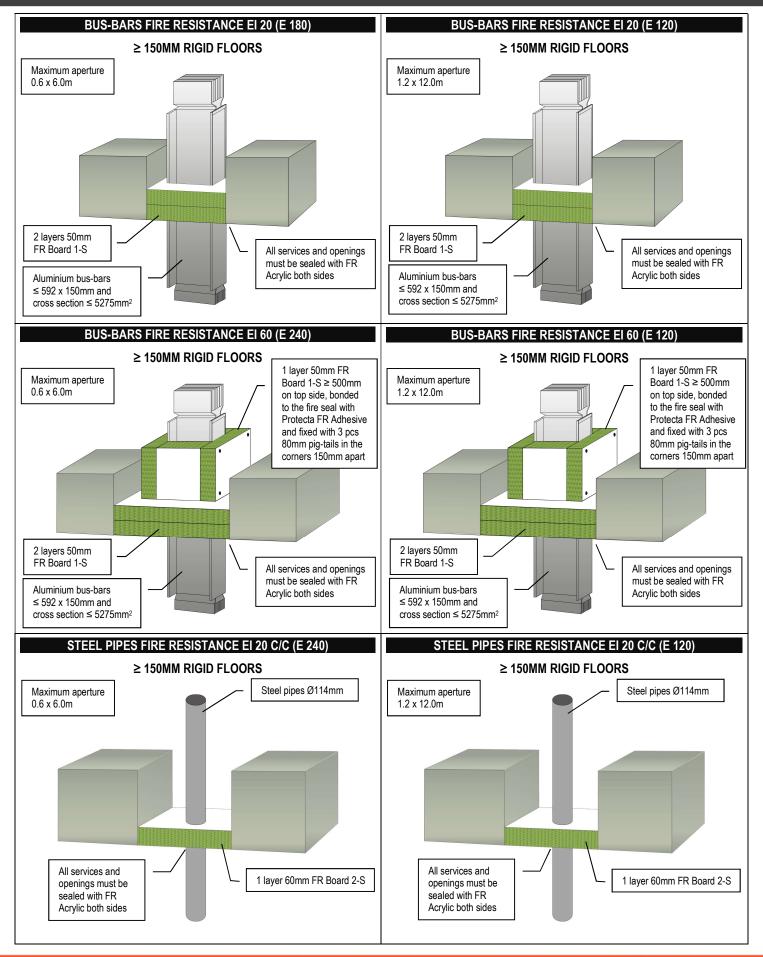
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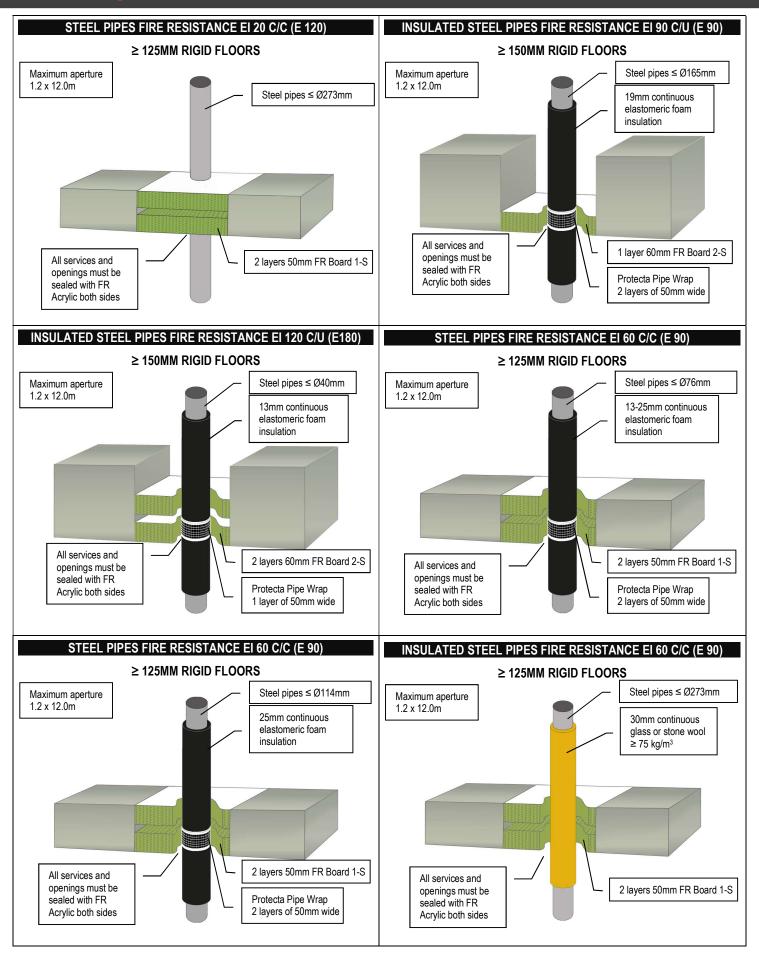
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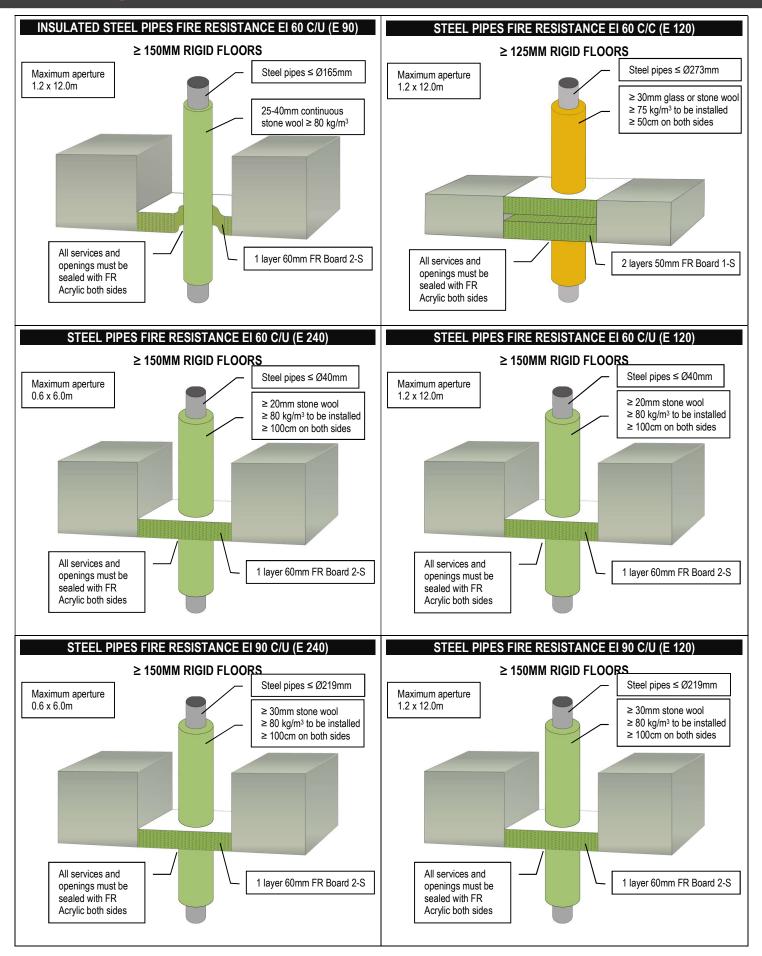
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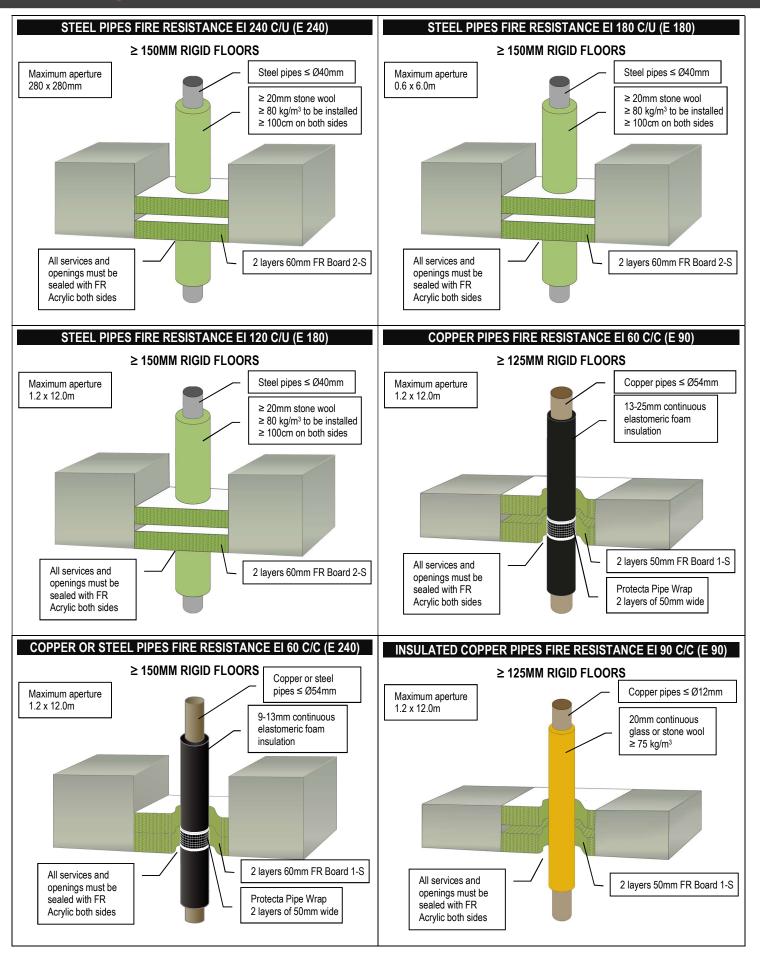


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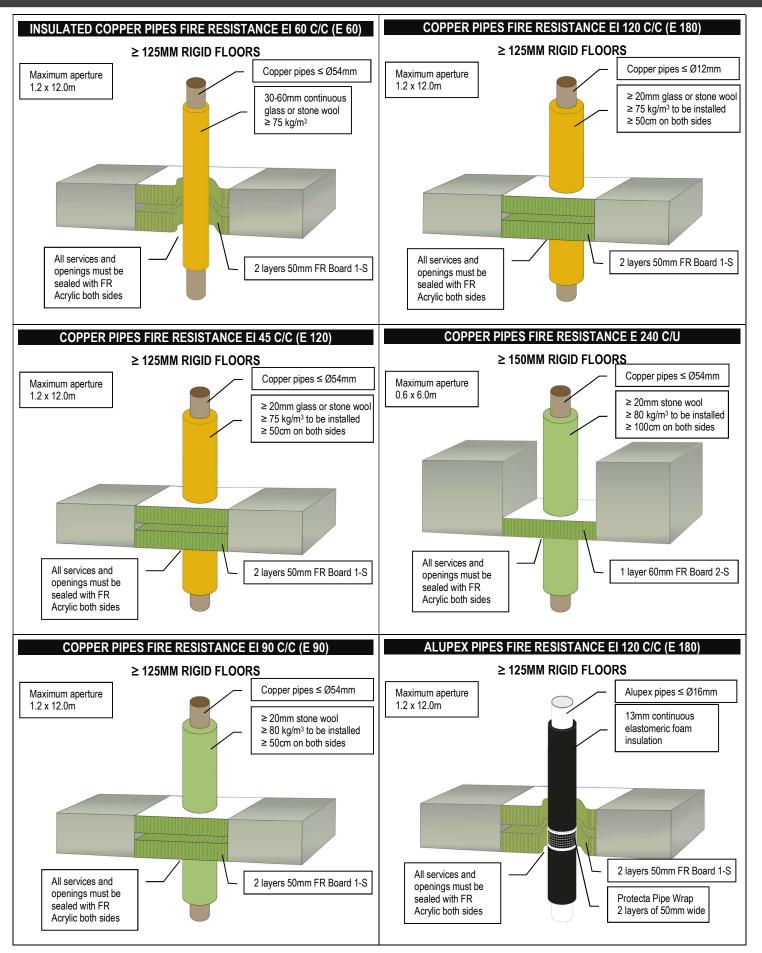
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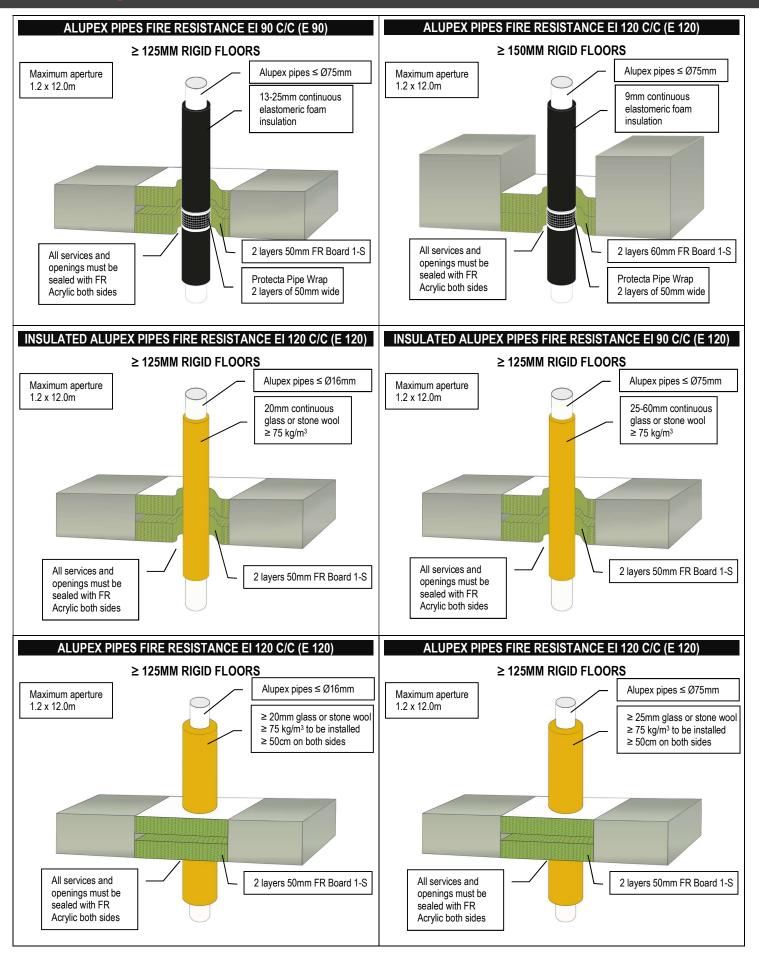
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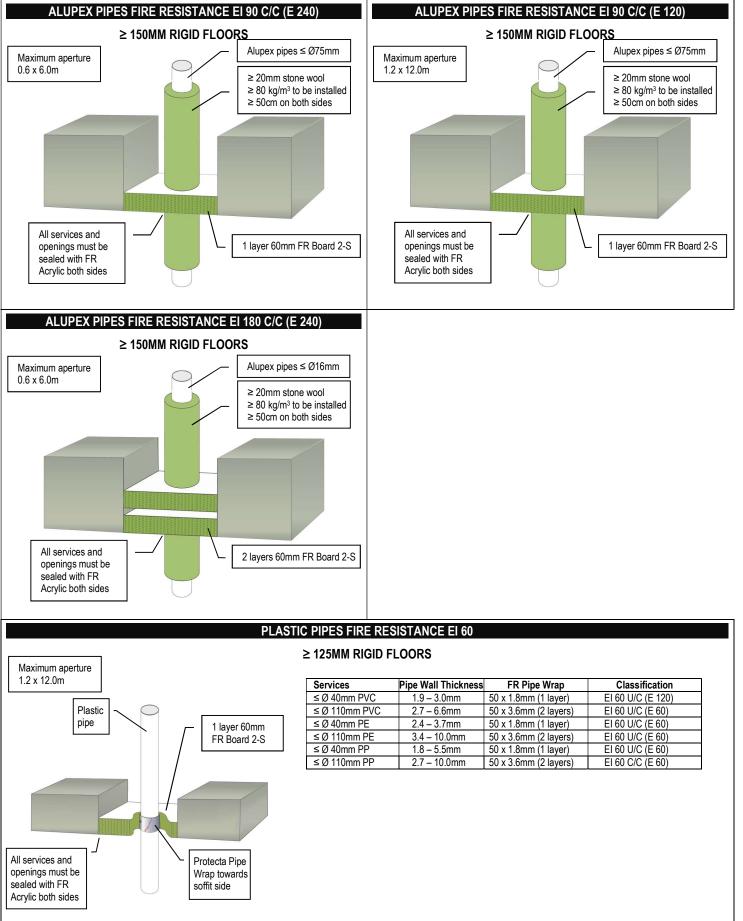
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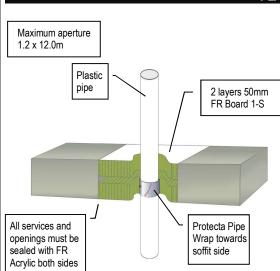


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### Detail Drawings Protecta® FR Board



### **PLASTIC PIPES FIRE RESISTANCE EI 60**

#### ≥ 125MM RIGID FLOORS

**COMPOSITE PLASTIC PIPES FIRE RESISTANCE EI 60-90** 

Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤Ø40mm PVC	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 120)
≤Ø110mm PVC	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤Ø160mmPVC	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60)
≤Ø40mm PE	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤Ø110mm PE	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60)
≤ Ø 160mm PE	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60)
≤Ø40mmPP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/C (E 60)
≤Ø110mm 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)

#### ≥ 125MM RIGID FLOORS Maximum aperture 1.2 x 12.0m Plastic pipe 1 layer 60mm FR Board 2-S All services and Protecta Pipe openings must be Wrap towards sealed with FR soffit side Acrylic both sides

#### Services FR Pipe Wrap Classification 50 x 1.8mm (1 layer) EI 60 C/C (E 120) ≤ Ø 20mm Aquatherm green MF < Ø 110mm Aquatherm green MF 50 x 3.6mm (2 layers) EI 60 C/C (E 120) Ø 110mm Aquatherm green MF EI 90 C/C (E 120) 50 x 3.6mm (2 layers) ≤ Ø 50mm Geberit Silent PP EI 60 U/U (E 120) 50 x 3.6mm (2 layers) ≤ Ø 110mm Geberit Silent PP 50 x 3.6mm (2 layers) EI 60 U/C (E 120) 50 x 3.6mm (2 layers) ≤ Ø 50mm Huliot Ultra Silent EI 60 U/U (E 120) EI 60 U/C (E 120) < Ø 110mm Huliot Ultra Silent 50 x 3.6mm (2 layers) EI 90 U/C (E 120) 50 x 3.6mm (2 layers) Ø 110mm Huliot Ultra Silent Ø 110mm POLO-KAL NG 50 x 3.6mm (2 layers) EI 60 U/C (E 90) ≤ Ø 50mm Rehau Raupiano Plus EI 60 U/U (E 120) 50 x 3.6mm (2 layers) < Ø 110mm Rehau Raupiano Plus 50 x 3.6mm (2 layers) EI 60 U/C (E 120) Ø 110mm Rehau Raupiano Plus 50 x 3.6mm (2 layers) EI 90 U/C (E 120) ≤ Ø 50mm Uponor Decibel 50 x 3.6mm (2 layers) EI 90 U/U (E 120) 50 x 3.6mm (2 layers) ≤ Ø 110mm Uponor Decibel EI 90 U/C (E 120) EI 60 U/U (E 120) ≤ Ø 50mm Wavin AS+ 50 x 3.6mm (2 layers) < Ø 110mm Wavin AS+ 50 x 3.6mm (2 layers) EI 60 U/C (E 120) EI 90 U/C (E 120) Ø 110mm Wavin AS+ 50 x 3.6mm (2 layers)



#### Maximum aperture 12 x 12 0m Plastic pipe 2 layers 50mm FR Board 1-S Protecta Pipe All services and openings must be Wrap towards sealed with FR soffit side Acrylic both sides

#### ≥ 125MM RIGID FLOORS

Services	FR Pipe Wrap	Classification
< Ø 160mm Geberit Silent PP	50 x 10.8mm (6 layers)	EI 60 U/C (E 120)
Ø 160mm Geberit Silent PP	50 x 10.8mm (6 layers)	EI 120 U/C (E 120)
Ø 125mm POLO-KAL NG	50 x 7.2mm (4 layers)	EI 120 U/C (E 120)
Ø 160mm POLO-KAL NG	50 x 10.8mm (6 layers)	EI 120 U/C (E 120)

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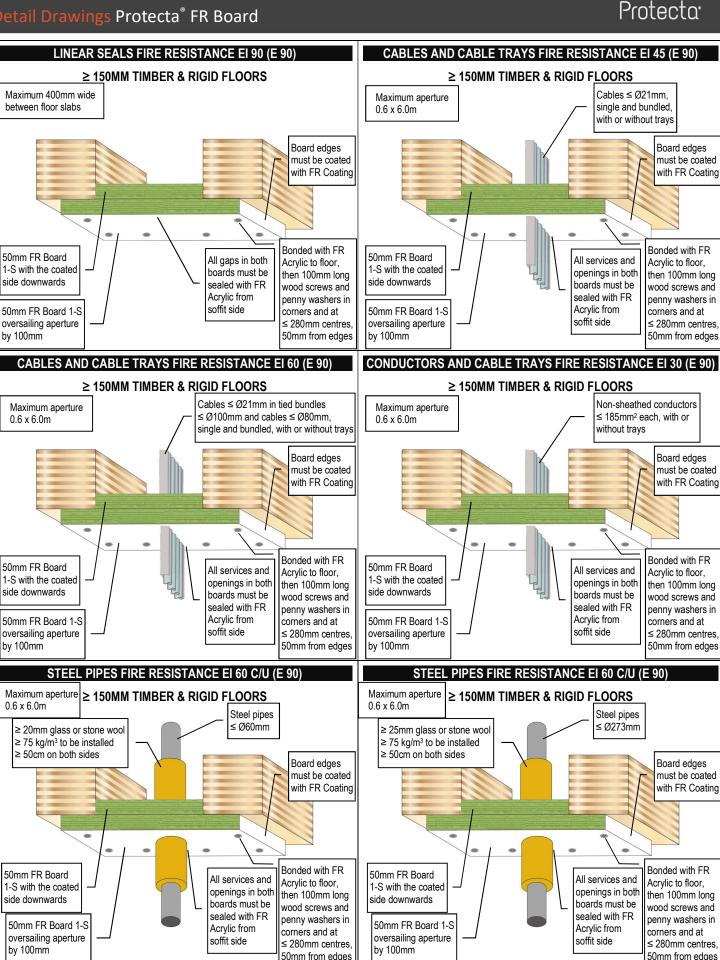


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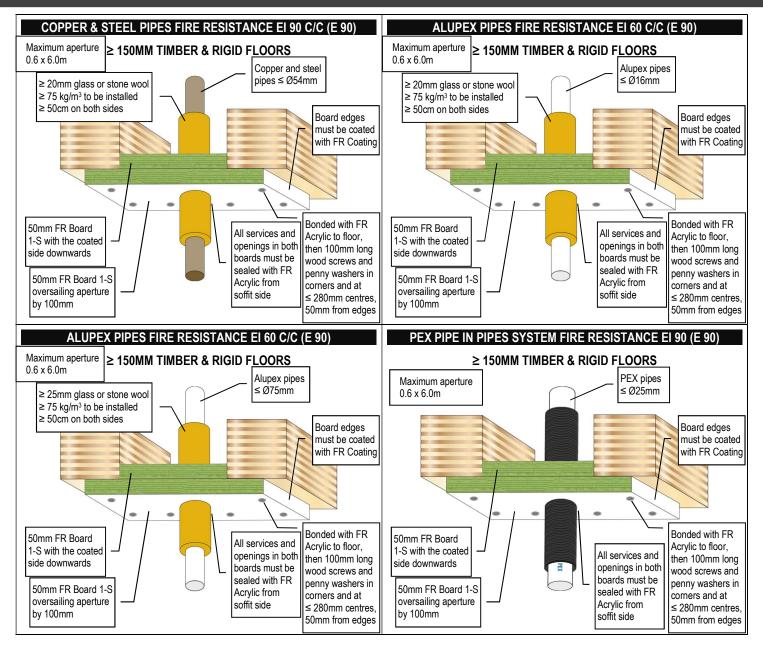
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## **Timber walls**

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Wavin AS+ pipes	-	59
Wavin SiTech pipes	-	60

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## Rigid walls, additional items

Services	Service insulation	Page no.
Linear seals	-	60 - 61
Cables and cable trays	-	62 - 64
Steel pipes	Elastomeric & PE, continuous	64
"	Stone-wool, continuous	64 - 65
ű	Stone-wool, interrupted	65 - 66
Copper pipes	-	67
"	Elastomeric & PE, continuous	67
"	Glass- & stone-wool, continuous	67
"	Glass-wool, interrupted	67
"	Stone-wool, interrupted	67 - 68
Alupex pipes	Glass- & stone-wool, continuous	68
"	Stone-wool, interrupted	68 - 69
Plastic pipes, small, w/o pipe wraps	-	69
Bundled plastic pipes	-	70
Plastic pipes, large	-	70
Plastic conduits	-	71

### **Rigid floors**

Services	Service insulation	Page no.
Linear seals	-	71 - 72
Cables and cable trays	-	73
Bus-bars	-	74
"	FR Board	74
Steel pipes	-	74 - 75
"	Elastomeric, continuous	75
"	Glass-wool, continuous	75
"	Stone-wool, continuous	76
"	Glass-wool, interrupted	76
"	Stone-wool, interrupted	76 - 77
Copper pipes	Elastomeric, continuous	77
"	Glass- & stone-wool, continuous	77 - 78
"	Glass-wool, interrupted	78
"	Stone-wool, interrupted	78
Alupex pipes	Elastomeric, continuous	78 - 79
"	Glass- & stone-wool, continuous	79
"	Glass-wool, interrupted	79
"	Stone-wool, interrupted	80
Plastic pipes	-	80 - 81
Composite pipes	-	81

# **Timber & rigid floors**

Services	Service insulation	Page no.
Linear seals	-	82
Cables and cable trays	-	82
Steel pipes	Glass & stone-wool, interrupted	82
Copper pipes	Glass & stone-wool, interrupted	83
Alupex pipes	Glass & stone-wool, interrupted	83
PEX pipe-in-pipes	-	83

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