

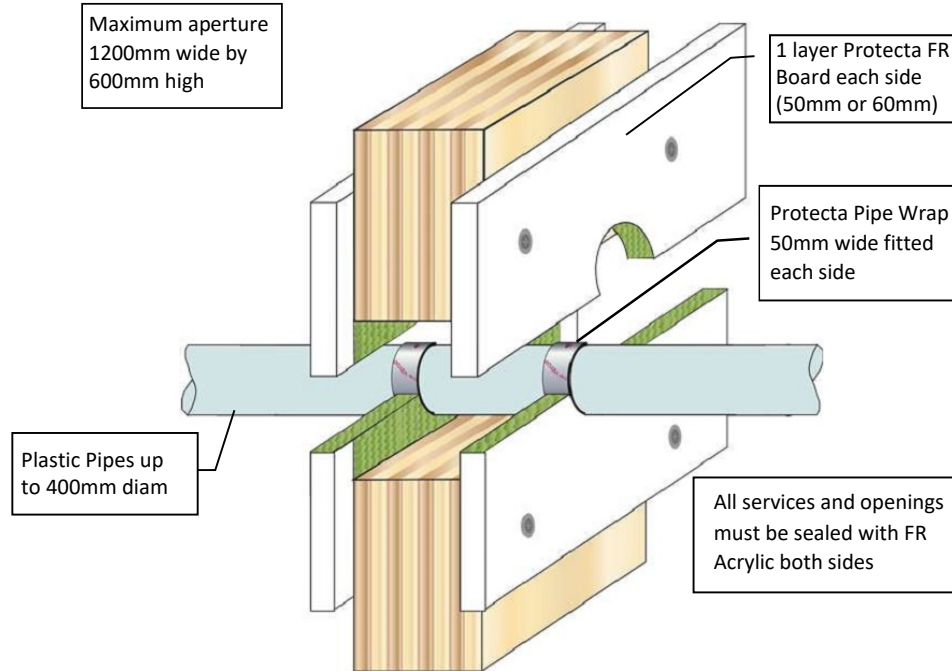
## Protecta FR Board - Timber Wall - Plastic Pipe

See pg2 for details for PVC, HDPE, PEX, ABS, PP  
 See pg3 for details for ACOUSTIC, AQUATHERM, etc

System/FPA Register ID# FC593

### Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The FR Board may be 50mm or 60mm with coated side facing outwards.
3. Cut the required boards to suit the aperture dimensions and penetrant.
4. Apply the required layers of Protecta FR Pipe Wrap to both sides.
5. The FR Board must oversail the aperture by 100mm and be bonded to the wall with a bead of Protecta® FR Acrylic. Fix with 100mm wood screws and penny washers at corners and at 300mm centres 50mm in from edge.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



<b>Products</b>	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
<b>Application</b>	Fire stopping of plastic pipes in timber walls
<b>Construction</b>	Minimum wall thickness of 100mm and comprise solid timber or CLT with a minimum density of 510kg/m <sup>3</sup>

### Fire & Sound Classification:

#### For 100mm solid timber or CLT walls:

Required pipe wrap layers

Pipes up to 40mm	- 1 layer
Pipes up to 110mm	- 2 layers
Pipes up to 125mm	- 3 layers
Pipes up to 200mm	- 6 layers
Pipes up to 250mm	- 7 layers
Pipes up to 315mm	- 10 layers
Pipes up to 400mm	- 16 layers

Smoke-safe (<0.1m<sup>3</sup>/h smoke leakage at 200Pa)

Sound Reduction (seal only) STC 64

### Minimum separations and limitations

An aperture can include several services, and they may also be different. Services within the system Protecta® FR Board seal do not require a minimum separation, except pipes where pipe insulation penetrates the seal and plastic pipe penetrations which should be a minimum of 30 mm from other services in the aperture. Services should be a minimum of 25mm from seal edges. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area. The minimum permitted separation between adjacent apertures is 200mm.



ETA 21/0071 FAS 210047 AS1530.4-2014 AS4072.1-2005



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K.B

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Pipes	Wall thickness	Wrap	Classification			
			50mm 1-S	60mm 2-S	50mm 1-S	60mm 2-S
<b>PVC-U, PVC-C and similar</b>						
Up to 40mm diam	Up to 3.0mm	50mm x 1 layer	FRR -/120/120		50mm x 2 layers	FRR -/120/120
Up to 110mm diam	Up to 6.6mm				50mm x 2 layers	FRR -/120/90
Up to 125mm diam	Up to 7.4mm				50mm x 3 layers	FRR -/120/90
Up to 160mm diam	Up to 9.5mm				50mm x 6 layers	FRR -/120/90
Up to 200mm diam	Up to 11.9mm				50mm x 6 layers	FRR -/90/90
Up to 315mm diam	Up to 12.1mm				50mm x 10 layers	FRR -/90/90
Up to 400mm diam	Up to 15.3mm				50mm x 16 layers	FRR -/90/90
<b>PE, PE-LD, PE-MD, PE-HD, PE-X, ABS, SAN+PVC and similar</b>						
Up to 40mm diam	Up to 3.7mm	50mm x 1 layer	FRR -/120/120			FRR -/120/120
Up to 110mm diam	Up to 10.0mm				50mm x 2 layers	FRR -/120/90
Up to 125mm diam	Up to 12.0mm				50mm x 3 layers	FRR -/120/90
Up to 160mm diam	Up to 14.6mm				50mm x 6 layers	FRR -/120/90
Up to 200mm diam	Up to 18.2mm				50mm x 6 layers	FRR -/90/90
Up to 315mm diam	Up to 18.7mm				50mm x 10 layers	FRR -/90/90
Up to 400mm diam	Up to 23.7mm				50mm x 16 layers	FRR -/90/90
<b>PP, PP-MV, PP-H, PP-R and similar</b>						
Up to 40mm diam	Up to 5.5mm	50mm x 1 layer	FRR -/120/120			FRR -/120/120
Up to 110mm diam	Up to 15.1mm	50mm x 2 layers	FRR -/90/90			FRR -/120/120
Up to 125mm diam	Up to 17.1mm				50mm x 3 layers	FRR -/120/90
Up to 160mm diam	Up to 21.9mm				50mm x 6 layers	FRR -/120/90
Up to 200mm diam	Up to 18.2mm				50mm x 6 layers	FRR -/90/90
Up to 315mm diam	Up to 28.6mm				50mm x 10 layers	FRR -/60/60

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- Pipes up to 40mm - 1 layer
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- Pipes up to 125mm - 3 layers
- Pipes up to 200mm - 6 layers
- Pipes up to 250mm - 7 layers
- Pipes up to 315mm - 10 layers
- Pipes up to 400mm - 16 layers

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Pipes	Wall thickness	Wrap	Classification	Closed Systems Only	
				Wrap	Classification
<b>Rehau Raupiano Plus PP-DD and similar</b>					
Up to 50mm diam	Up to 2.7mm	50mm x 2 layers	FRR -/120/120		
Up to 110mm diam	Up to 2.7mm			50mm x 2 layers	FRR -/120/120
Up to 125mm diam	Up to 3.9mm			50mm x 4 layers	FRR -/120/120
Up to 160mm diam	Up to 3.9mm			50mm x 6 layers	FRR -/120/120
<b>POLO-Kai NG Poloplast PP-MV and similar</b>					
Up to 50mm diam	Up to 3.4mm	50mm x 2 layers	FRR -/120/120		
Up to 110mm diam	Up to 3.4mm			50mm x 2 layers	FRR -/120/120
Up to 125mm diam	Up to 3.9mm			50mm x 4 layers	FRR -/120/120
Up to 160mm diam	Up to 4.9mm			50mm x 6 layers	FRR -/120/120
<b>Aquatherm Green SDR9 MF PP-RP and similar</b>					
Up to 32mm diam	Up to 3.0mm			50mm x 1 layer	FRR -/120/90
Up to 50mm diam	Up to 12.3mm			50mm x 2 layers	FRR -/120/90
Up to 110mm diam	Up to 12.3mm			50mm x 2 layers	FRR -/120/90
<b>Wavin SiTech + PP-MB and similar</b>					
Up to 50mm diam	Up to 3.4mm	50mm x 2 layers	FRR -/120/90		
Up to 110mm diam	Up to 3.4mm			50mm x 2 layers	FRR -/120/60
<b>Gilbert Silent PP and similar</b>					
Up to 50mm diam	Up to 3.4m	50mm x 2 layers	FRR -/120/120		
Up to 110mm diam	Up to 3.4mm			50mm x 2 layers	FRR -/120/120
<b>Blue Power Multilayer pipes and similar</b>					
Up to 50mm diam	Up to 1.8mm	50mm x 2 layers	FRR -/90/90		
Up to 110mm diam	Up to 3.4mm			50mm x 2 layers	FRR -/90/90
Up to 160mm diam	Up to 4.9mm			50mm x 6 layers	FRR -/90/90
<b>Uponor Decibel pipes and similar</b>					
Up to 50mm diam	Up to 2.0mm	50mm x 2 layers	FRR -/90/90		
Up to 110mm diam	Up to 3.8mm			50mm x 2 layers	FRR -/90/90

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