

Protecta FR Board - Plastic Pipes in Concrete Wall

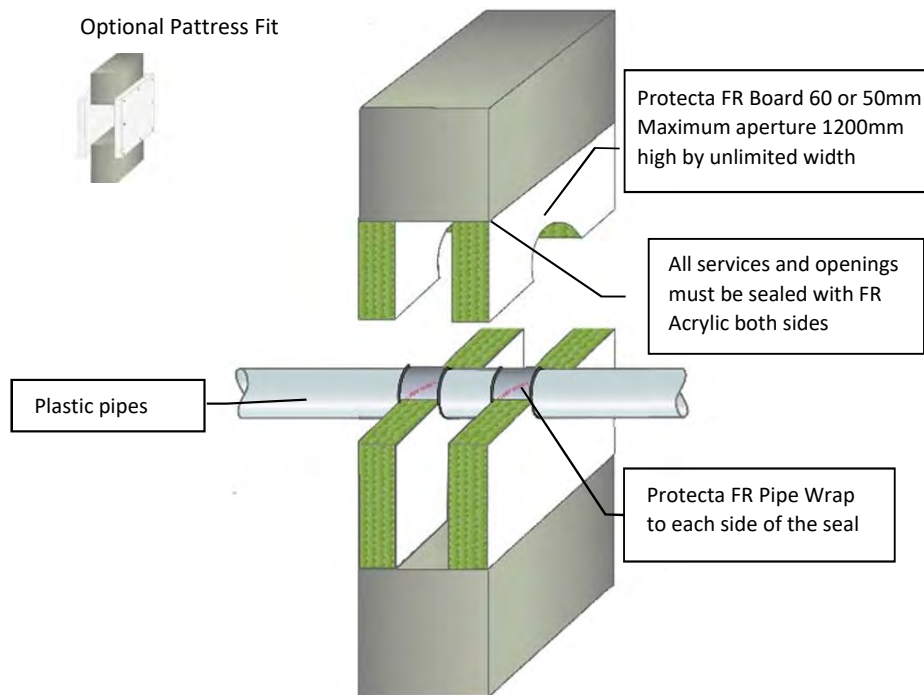
See pgs 2& 3 for details for PVC, HDPE, PEX, ABS, PP

See pg 4 for Acoustic, Aquatherm, etc

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 boards should 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 30mm between the 60mm boards.
3. 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.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.

Optional Pattress Fit



System/FPA Register ID# FC570

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 100mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

Fire & Sound Classification

Required pipe wrap layers

Pipes up to 40mm	- 1 layer
Pipes up to 110mm	- 2 layers
Pipes up to 125mm	- 4 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
Pipes up to 32mm may be bundled together and may also be mixed in the same bundle (max 107mm diam)	
Smoke-safe (<0.1m ³ /h smoke leakage at 200Pa)	
Sound reduction (seal only)	STC 55

Pattress Fitting permitted Max FRR -/120/120 Max aperture 1100 x 1100mm See Warringtonfire FAS200262 page 9



warringtonfire

ETA 21/0071 FAS 200262 AS1530.4-2014 AS4072.1-2005

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.

As a part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Polyseam has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, is intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.

For all technical details on the products specified please refer to the technical data sheets that can be found on www.

Signed and approved:



Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB

Sheet size:	Drawn date & no:
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	Drawn by:
	K.B



				Closed Systems Only		
Pipes	Wall thickness	Wrap	Classification	Wrap	Classification	
PVC-U, PVC-C and similar			60mm 2-S		60mm 2-S	
Up to 40mm diam	Up to 3.0mm			50mm x 1 layer	FRR -/240/240	
Up to 110mm diam	Up to 6.6mm			50mm x 2 layers	FRR -/240/240	
Up to 125mm diam	Up to 7.4mm			50mm x 4 layers	FRR -/240/240	
Up to 160mm diam	Up to 9.5mm			50mm x 6 layers	FRR -/120/120	
Up to 200mm diam	Up to 11.9mm			75mm x 6 layers	FRR -/180/180	
Up to 315mm diam	Up to 12.1mm			75mm x 10 layers	FRR -/120/120	
Up to 400mm diam	Up to 15.3mm			75mm x 16 layers	FRR -/120/120	
Up to 32mm diam in bundles up to 107mm				50mm x 2 layers	FRR -/240/240	
PE, PE-LD, PE-MD, PE-HD, PE-X, ABS, SAN+PVC and similar						
Up to 40mm diam	Up to 4.6mm			50mm x 1 layer	FRR -/240/240	
Up to 110mm diam	Up to 10.0mm			50mm x 2 layers	FRR -/240/240	
Up to 125mm diam	Up to 7.4mm			50mm x 4 layers	FRR -/240/240	
Up to 160mm diam	Up to 9.5mm			50mm x 6 layers	FRR -/240/240	
Up to 200mm diam	Up to 18.2mm			75mm x 6 layers	FRR -/180/180	
Up to 315mm diam	Up to 28.6mm			75mm x 10 layers	FRR -/180/120	
Up to 400mm diam	Up to 36.3mm			75mm x 16 layers	FRR -/120/120	
Up to 32mm diam in bundles up to 107mm				50mm x 2 layers	FRR -/240/240	
PP, PP-MV, PP-H, PP-R and similar						
Up to 40mm diam	Up to 5.5mm			50mm x 1 layer	FRR -/240/240	
Up to 110mm diam	Up to 10.0mm			50mm x 2 layers	FRR -/240/240	
Up to 125mm diam	Up to 11.4mm			50mm x 4 layers	FRR -/240/240	
Up to 160mm diam	Up to 14.6mm			50mm x 6 layers	FRR -/240/240	
Up to 200mm diam	Up to 18.2mm			75mm x 6 layers	FRR -/180/180	
Up to 32mm diam in bundles up to 107mm				50mm x 2 layers	FRR -/240/240	

System/FPA Register ID# FC570

Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Pipe Wrap

Application Fire stopping of plastic pipes in rigid walls

Construction Minimum wall thickness of 150mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound Classification

Required pipe wrap layers

Pipes up to 40mm - 1 layer
Pipes up to 110mm - 2 layers
Pipes up to 125mm - 4 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
Pipes up to 32mm may be bundled together and may also be mixed in the same bundle (max 107mm diam)
Smoke-safe (<0.1m³/h smoke leakage at 200Pa)
Sound reduction (seal only) STC 55



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System/FPA Register ID# FC570

Pipes	Wall thickness	Wrap	Classification			
			Classification		Wrap	Classification
			50mm 1-S	60mm 2-S	Closed Systems Only	
			50mm 1-S	60mm 2-S	50mm 1-S	60mm 2-S
PVC-U, PVC-C and similar						
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
PE, PE-LD, PE-MD, PE-HD, PE-X, ABS, SAN+PVC and similar						
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
PP, PP-MV, PP-H, PP-R and similar						
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 200mm - 6 layers
- Pipes up to 250mm - 7 layers
- Pipes up to 315mm - 10 layers
- Pipes up to 400mm - 16 layers

 Smoke-safe (<0.1m³/h smoke leakage at 200Pa)

Sound Reduction (seal only)

STC 64



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				Closed Systems Only		
Pipes	Wall thickness	Wrap	Classification	Wrap	Classification	
Rehau Raupiano Plus PP-DD and similar					50mm 1-S	
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	
POLO-Kai NG Poloplast PP-MV and similar						
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	
Aquatherm Green SDR9 MF PP-RP and similar						
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	
Wavin SiTech + PP-MB and similar						
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	
Gilbert Silent PP and similar						
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	
Blue Power Multilayer pipes and similar						
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	
Uponor Decibel pipes and similar						
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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Required pipe wrap layers:

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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

 Smoke-safe (<0.1m³/h smoke leakage at 200Pa)

 Sound Reduction (seal only) STC 64


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