

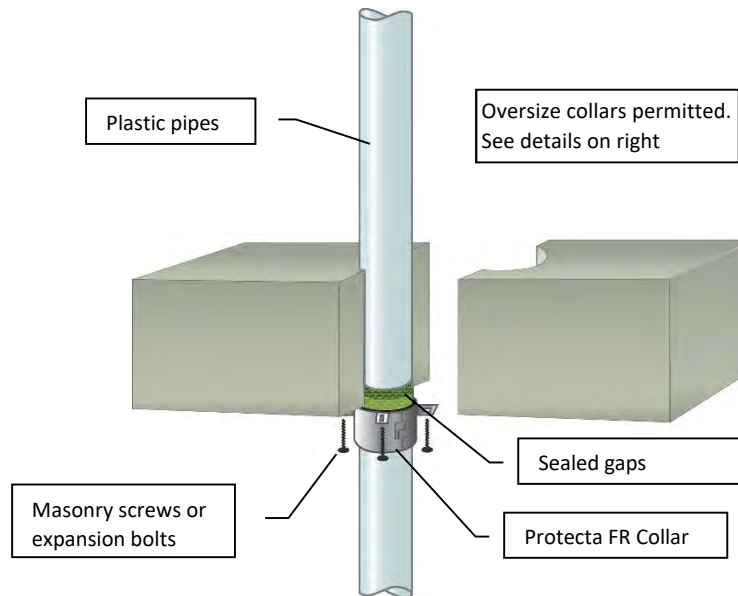
Protecta FR Collar

Plastic Pipe in 100mm Concrete Floor

See Pg 2 for PVC, PEX, PP, HDPE, PPR, etc
 See Pg 3 for Acoustic, Aquatherm, etc

Installation Instructions

1. A single pipe collar is installed on the underside of the floor.
2. Before fitting the pipe collar ensure that any gaps between the pipe and the floor slab are sealed. Gaps between the pipe and the floor below 10mm must have 20mm deep stonewool to plug the opening, and for gaps 10mm or above, the seal must be plugged with 10mm deep Protecta® FR Acrylic on 40mm deep backing of stonewool. (Any stonewool, rockwool or mineral wool of density 33kg/m³ is acceptable). Alternatively FR Acrylic to the full depth of the stonewool may be used if more convenient.
3. Place a pipe collar around the pipe and ensure that the fixing lugs are positioned tightly to the surface of the floor so that the fixings can be inserted fully.
4. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the pipe collar.
5. Attach the pipe collar with steel screws or fixings that are suitable for the substrate that the pipe collar will be fitted to.
6. On sites where the penetration size is greater than the pipe diameter and/or the pipe is on an angle an oversized collar can be used, i.e. the internal diameter of the collar can be larger than the pipe.
7. For visual integrity gaps between pipe and collar may optionally be sealed with a thin bead of FR Acrylic sealant.



FAS 190125 AS1530.4-2014 AS4072.1-2005

System/FPA Register ID# FC146

| | |
|---------------------|--|
| Products | Protecta FR Collar |
| Application | Fire stopping of plastic pipes in rigid floors |
| Construction | Minimum floor thickness of 100mm* and comprise aerated concrete or concrete with a minimum density of 650kg/m ³ |

Fire & Sound Classification

*FRRs shown are for a 150mm floor. Where the FRR of a thinner floor is less than these ratings then the FR Collar rating must be reduced to the FRR of the floor or use NZAS 3600:2018

Over-sized collars of any dimension approved (see pages 9 & 52), subject to:
 Max angle 45°
 Max FRR -/120/120
 Max collar size 160mm
 Max average annular space 55mm

ZERO Smoke at 200Pa with 10mm FR Acrylic

Sound reduction (seal only) STC 58



Protecta®

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

| | |
|--------------------------|-----------------------------|
| Sheet size: A4 | Drawn date & no: 28/7/21 |
| Scale: NTS | Drawn by: K.B |

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

Signed and approved:

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Plastic Pipe in 100mm Concrete Floor
Details for PVC, PEX, PP, HDPE, PPR, etc

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| Services | Wall thickness | Collar Height | Classification | Closed Systems Only | |
|--|----------------|---------------|----------------|---------------------|----------------|
| | | | | Collar Height | Classification |
| PVC-U, PVC-C and similar | | | | | |
| Up to 50mm diam | Up to 3.7mm | 30mm | FRR -/90/60 | 50mm | FRR -/120/120 |
| Up to 110mm diam | Up to 6.6mm | 30mm | FRR -/60/60 | 50mm | FRR -/120/120 |
| Up to 160mm diam | Up to 9.5mm | | | 50mm | FRR -/120/90 |
| " " | " " | 60mm | FRR -/60/60 | 60mm | FRR -/120/120 |
| Up to 200mm diam | Up to 11.9mm | | | 60mm | FRR -/120/60 |
| Up to 315mm diam | Up to 12.1mm | | | 75mm | FRR -/60/60 |
| Up to 400mm diam | Up to 15.3mm | | | 100mm | FRR -/60/60 |
| PE, PE-LD, PE-MD, PE-HD, PE-X, ABS, SAN+PVC and similar | | | | | |
| Up to 50mm diam | Up to 4.6mm | 30mm | FRR -/60/60 | 50mm | FRR -/240/240 |
| " " | Up to 3.0mm | 50mm | FRR -/240/240 | | |
| Up to 110mm diam | Up to 10.0mm | | | 30mm | FRR -/60/60 |
| " " | " " | 50mm | FRR -/60/60 | 50mm | FRR -/120/120 |
| Up to 160mm diam | Up to 14.6mm | 60mm | FRR -/60/60 | 50mm | FRR -/120/120 |
| Up to 200mm diam | Up to 18.2mm | | | 60mm | FRR -/240/120 |
| Up to 315mm diam | Up to 18.7mm | | | 75mm | FRR -/240/240 |
| Up to 400mm diam | Up to 36.3mm | | | 100mm | FRR -/90/90 |
| PP, PP-MV, PP-H, PP-R and similar | | | | | |
| Up to 50mm diam | Up to 4.6mm | 30mm | FRR -/120/120 | | |
| Up to 110mm diam | Up to 6.6mm | 50mm | FRR -/60/60 | 30mm | FRR -/120/120 |
| " " | Up to 10.1mm | | | 50mm | FRR -/60/60 |
| Up to 160mm diam | Up to 14.6mm | 60mm | FRR -/60/60 | 60mm | FRR -/120/120 |
| Up to 200mm diam | Up to 18.2mm | | | 60mm | FRR -/120/120 |
| Up to 315mm diam | Up to 22.7mm | | | 75mm | FRR -/60/60 |
| Up to 400mm diam | Up to 22.7mm | | | 100mm | FRR -/30/30 |

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Details for Acoustic, Aquatherm, etc

Closed Systems Only

| Services | Wall thickness | Collar Height | Classification | Collar Height | Classification |
|--|----------------|---------------|----------------|---------------|----------------|
| Rehau Raupiano Plus PP-DD and similar | | | | | |
| Up to 50mm diam | Up to 1.8mm | 50mm | FRR -/240/240 | | |
| Up to 110mm diam | Up to 2.7mm | | FRR -/120/120 | | |
| Up to 125mm diam | Up to 3.1mm | 60mm | FRR -/180/180 | | |
| Up to 160mm diam | Up to 3.9mm | | | 60mm | FRR -/240/240 |
| POLO-Kai NG Poloplast PP-MV and similar | | | | | |
| Up to 50mm diam | Up to 2.0mm | 50mm | FRR -/240/240 | | |
| Up to 110mm diam | Up to 3.4mm | | FRR -/180/180 | | |
| Up to 125mm diam | Up to 3.9mm | | | 60mm | FRR -/120/120 |
| Up to 160mm diam | Up to 4.9mm | 60mm | FRR -/120/120 | | |
| Aquatherm Green SDR9 MF PP-RP and similar | | | | | |
| Up to 32mm diam | Up to 5.6mm | | | 30mm | FRR -/240/240 |
| Up to 50mm diam | Up to 5.6mm | | | 50mm | FRR -/240/240 |
| Up to 110mm diam | Up to 12.3mm | | | 50mm | FRR -/120/120 |
| Wavin SiTech + PP-MB and similar | | | | | |
| Up to 50mm diam | Up to 1.8mm | 50mm | FRR -/240/240 | | |
| Up to 110mm diam | Up to 3.4mm | 50mm | FRR -/180/180 | | |
| Gilbert Silent PP and similar | | | | | |
| Up to 50mm diam | Up to 1.8mm | 50mm | FRR -/240/240 | | |
| Up to 110mm diam | Up to 3.4mm | 50mm | FRR -/180/180 | | |
| Blue Power Multilayer TR02-PP and similar | | | | | |
| Up to 110mm diam | Up to 3.4mm | 50mm | FRR -/180/180 | | |
| Up to 125mm diam | Up to 4.9mm | 60mm | FRR -/180/180 | | |
| Up to 160mm diam | Up to 4.9mm | 60mm | FRR -/240/240 | | |
| Uponor Decibel and similar | | | | | |
| Up to 50mm diam | Up to 2.0mm | 50mm | FRR -/180/180 | | |
| Up to 110mm diam | Up to 3.8mm | 50mm | FRR -/120/120 | | |

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