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Tel : +91 22 28699520 +91 22 28672800, Web Site : www.falcontechno.in

PROJECT NAME: **ETERNIA**

LOCATION: Tower A,B,C,D

Document Title : Drawings for Fire Sealant Application

Date of Issue: **09-02-2022**

Document No./Submittal:ET-FAL-MEP-DWG-0001

Revision Number: R0

Consultants:

Contractor: Falcon Acoustics & Passive Fire Protection Pvt. Ltd.

Pre-Qlfcn	Method Statemnt	Work Program	PQP	Test Results	Surveys	
Calcultns	Certificate	Warranty	O & M Manuals	HSE	Others	

Submittal Originator : Falcon Acoustics & Passive Fire Protection Pvt. Ltd.

Date: 09-02-2022

Co-ordination Sign off : Prashant Ravindran

Date: 09-02-2022

Planned Submission :

Actual Submission: 09-02-2022

Approval Reqd By:

Submittal Received : <Consultant /Employer>

Date:

The Contractor hereby certifies that the documents/data submitted are in accordance with the contract conditions,scope of works and local regulations and building standards

Engineers Review and Comments

Approvals


Code A - NO OBJECTION  
Code B - NO OBJECTION WITH COMMENTS  
Code C - OBJECTION  
Code D - FOR INFO & RECORDS ONLY

Consultant Review Comments

Employer's (ORL HO) Comments

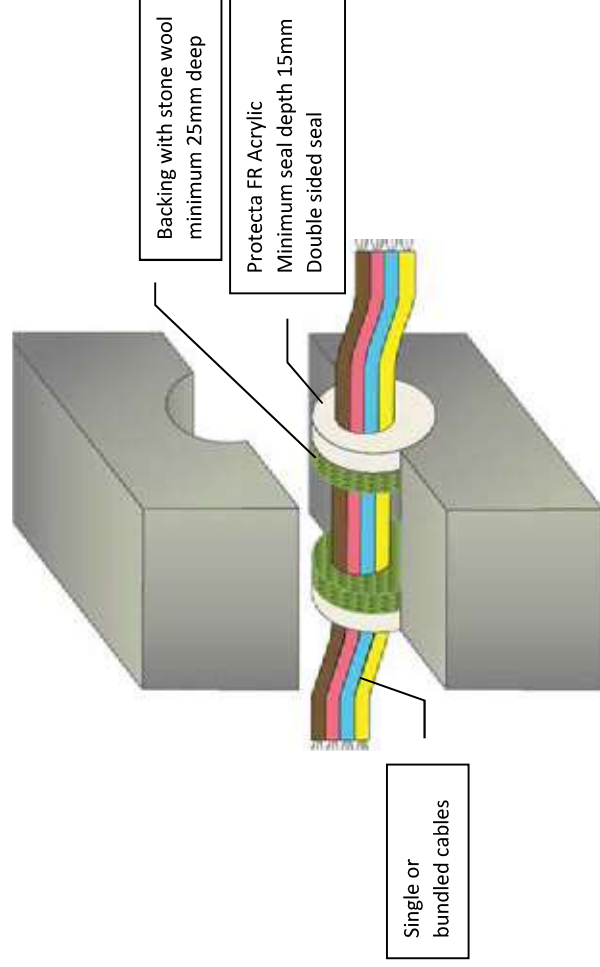
**NOTE: The concerned contractor's action is required within 3 days.**

Approval of the Documents/Data does not relieve the Contractor of his obligation in completing the works in accordance with contract documents , drawings and any applicable local regulations and standards

Released by:	< Name >	< Date & Signature >
Falcon Acoustics & Passive Fire Solutions Pvt Ltd	Prashant Ravindran	
		09-02-2022
Released by:	< Name >	< Date & Signature >
Obero Construction Limited	Kaustubh Burange	

## Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Where Protecta® FR Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Polyseam for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
3. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
4. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
5. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
6. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



Single or bundled cables

Backing with stone wool  
minimum 25mm deep


Protecta FR Acrylic  
Minimum seal depth 15mm  
Double sided seal

ETA  
ETA 18/0904

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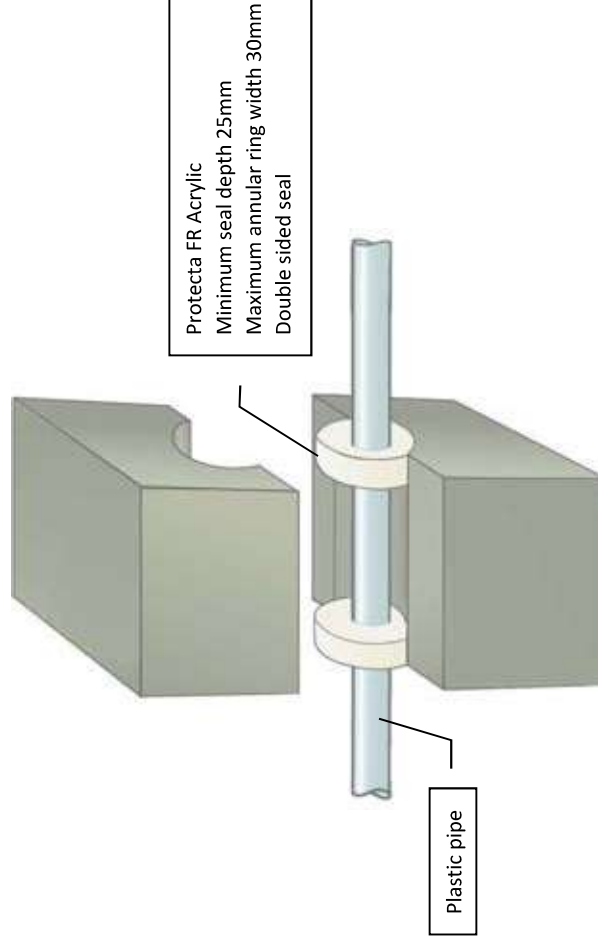
For all technical details on the products specified please refer to the technical data sheets that can be found on [www.protecta.eu](http://www.protecta.eu)

Signed and approved:

Client:			
Job Title:			
Products	Protecta FR Acrylic Stone wool		
Application	Fire stopping of cables in rigid walls		
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$		
Fire & Sound classification	<p>Cables <math>\leq \varnothing 21\text{mm}</math> single or in a bundle  <math>\leq \varnothing 100\text{mm}</math> in maximum aperture <math>300 \times 300\text{mm}</math>  EI 120 &amp; E 240</p> <p>Cables <math>\leq \varnothing 80\text{mm}</math> single or in a bundle  <math>\leq \varnothing 100\text{mm}</math> in maximum aperture <math>300 \times 300\text{mm}</math>  EI 60 &amp; E 120</p> <p>Sound reduction (seal only)                      Rw 62 dB</p>		
 <p>Polyseam Ltd, 15 St Andrews Road,  Huddersfield, West Yorkshire, HD1 6SB  Tel: +44 (0) 148 4421036  Email: <a href="mailto:post.uk@polyseam.com">post.uk@polyseam.com</a></p>			
Sheet size:	A4	Drawn date & no:	7/3/15
Scale:	NTS	Drawn by:	K.B

## Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Where Protecta® FR Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Polyseam for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
3. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
4. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
5. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
6. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.




ETA 18/0904

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Signed and approved:

Client:			
Job Title:			
<b>Products Application</b>	Protecta FR Acrylic	Fire stopping of plastic pipes in rigid walls	
<b>Construction</b>	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$		
<b>Fire &amp; Sound classification</b>	PVC-U or PVC-C pipe $\leq \varnothing 32\text{mm}$ with wall thickness 1.0-1.6mm EI 120 C/C & E 120 C/C		
	PVC-U or PVC-C pipe $\leq \varnothing 32\text{mm}$ with wall thickness 1.0-2.4mm	EI 90 U/C & E 120 U/C	
	PE, ABS or SAN+PVC pipe $\varnothing 20\text{mm}$ with wall thickness 2.0mm	EI 120 U/C & E 120 U/C	
	PE, ABS or SAN+PVC pipe $\leq \varnothing 32\text{mm}$ with wall thickness 2.0-3.0mm	EI 90 C/C & E 90 C/C	
	PP pipe $\varnothing 20\text{mm}$ with wall thickness 2.2mm	EI 120 U/C & E 120 U/C	
	PP pipe $\leq \varnothing 32\text{mm}$ with wall thickness 1.8-4.4mm	EI 60 C/C & E 60 C/C	
	Sound reduction (seal only)	Rw 62dB	
 <b>Protecta®</b> Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB Tel: +44 (0) 148 4421036 Email: post.uk@polyseam.com			
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<b>A4</b>	14/8/19		
Scale:	Drawn by:		
<b>NTS</b>	K.B		

<div> <div>ETA CE</div> <div>ETA 18/0904</div> </div> <div> <p>1. Before installing Protecta® FR Acrylic ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.</p> <p>2. Where Protecta® FR Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Polyseam for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.</p> <p>3. As Protecta® FR Acrylic is water based, in cases where corrosion protection is a problem; some metals may require a barrier between the sealant and the metal surface prior to this installation.</p> <p>4. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.</p> <p>5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.</p> <p>6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.</p> <p>7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.</p> </div> <div> </div>	<div> <div>Client:</div> <div>Job Title:</div> <div> <div>Products</div> <div>Protecta FR Acrylic</div> <div>Stone wool</div> </div> <div> <div>Application</div> <div>Fire stopping of steel pipes in rigid walls</div> </div> <div> <div>Construction</div> <div>Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of <math>\geq 650 \text{ kg/m}^3</math></div> </div> <div> <div>Fire &amp; Sound classification</div> <div>Steel pipe <math>\leq \varnothing 324\text{mm}</math> without pipe insulation in maximum aperture <math>300 \times 300\text{mm}</math> or <math>\varnothing 344\text{mm}</math></div> <div>E 120 C/U</div> <div>Sound reduction (seal only)</div> <div>Rw 62dB</div> </div> <div> <div> <div>Protecta®</div> <div> Polyseam Ltd, 15 St Andrews Road,  Huddersfield, West Yorkshire, HD1 6SB  Tel: +44 (0) 148 4421036  Email: <a href="mailto:post.uk@polyseam.com">post.uk@polyseam.com</a> </div> </div> </div> </div>
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<p><b>Client:</b></p>	<div> <div> <div>Maximum aperture unlimited width by 1200mm high</div> <div> </div> </div> </div>		
<p><b>Job Title:</b></p>	<p>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.</p>		
<p><b>Products</b></p>	<p>2. The coated side of the board should be flush with the surface of the drywall on both sides.</p>		
<p><b>Application</b></p>	<p>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.</p>		
<p><b>Construction</b></p>	<p>4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.</p>		
<p><b>Fire &amp; Sound classification</b></p>	<p>5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.</p>		
<p>For fire classifications please see the table on the left.</p>	<p>Sound reduction (seal only)</p>		
<p>52 dB</p>	<p>Sound reduction (seal only)</p>		
<p>52 dB</p>	<p>52 dB</p>		
<p>52 dB</p>	<p>52 dB</p>		
<p>52 dB</p>	<p>52 dB</p>		
<p>52 dB</p>	<p>52 dB</p>		
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<p>52 dB</p>	<p>52 dB</p>		

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**Minimum separations and limitations** An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. 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. The total amount of cross sections of services should not exceed 60% of the penetration area.

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Signed and approved:

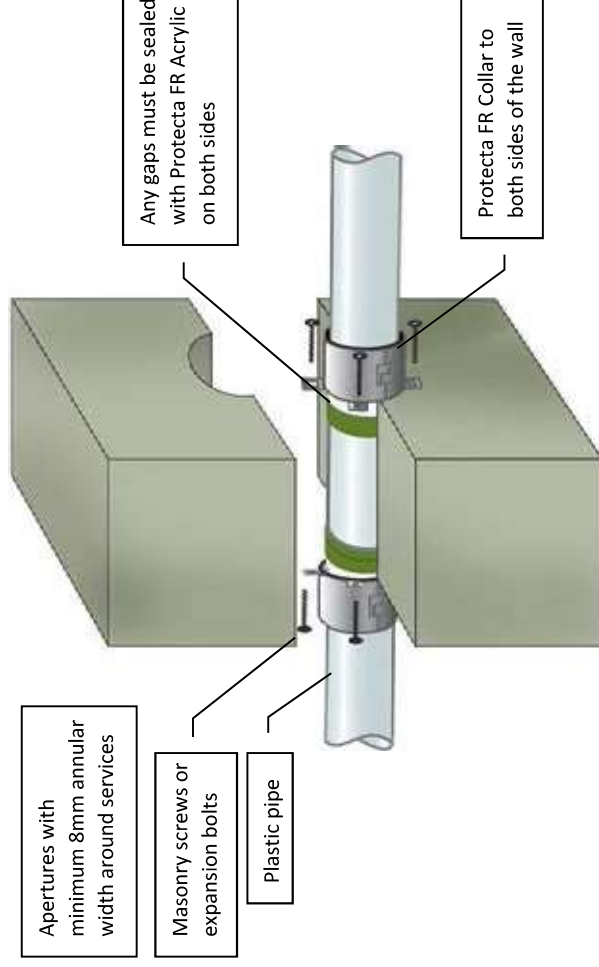
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## Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe and the separating element are sealed with minimum 25mm deep Protecta® FR Acrylic to cover the opening.
2. Place a suitable collar around the pipe and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the wall, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the wall and the collar shell.
4. Attach the collar with  $\geq \varnothing 4 \times 40$ mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C
≤ Ø160mm PVC-U & PVC-C	60mm	EI 120 C/C
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 120 C/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 90 C/C (E 120)
Ø110x3,4mm PE, ABS & SAN+PVC	50mm	EI 120 C/C
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 90 C/C
Ø160x9,5mm PE, ABS & SAN+PVC	60mm	EI 120 C/C
≤ Ø50mm PP	50mm	EI 120 C/C
≤ Ø110mm PP	50mm	EI 90 C/C (E 120)
≤ Ø140mm PP	60mm	EI 90 C/C (E 120)
Ø160mm PP	60mm	EI 120 C/C



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Signed and approved:

Signed and approved:

Client:

Job Title:
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Products	Protecta FR Collar	Protecta FR Acrylic
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**Application** Fire stopping of plastic pipes in rigid walls

**Construction** Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of  $\geq 650 \text{ kg/m}^3$

Fire &amp; Sound classification

Fire classifications in table on the left. For full specifications, please refer to the Installation Instructions.

Sound reduction (seal only)

Rw 58dB

Protecta<sup>®</sup>

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