TECHNICAL HANDBOOK

Fire stopping of service penetrations

8th edition May 2024



Protecta®

Overview

The contribution to building protection by installed fire stopping products is often underestimated by businesses. The media very rarely reports on the reduction in the effects of fires in compartmentalised buildings, even though thousands of lives and the buildings themselves are saved each year. I guess there's nothing to write about when the destructive impact of a fire is prevented. Compartmentalisation works by preventing fire spreading and causing horrendous injury or death to human beings or animals and untold damage to buildings.

One often reads about the heroics of fire departments or that the fire was arrested by the sprinkler system but rarely is it attributed to compartmentalisation. Why is that? Is it too complicated to be considered? Of course not, it is an easy and cost effective way to protect a building against the spread of smoke and fire. I wrote this book to demonstrate the ease and effectiveness of compartmentalisation, and to raise awareness of the short movies showing the installation in real time (available on YouTube, just search for Protecta).

Time is the reason compartmentalisation is the most effective method to use against fire spread today. A fire can spread so quickly that it is impossible for any fire department to quickly extinguish it without causing large scale damage to the building. Fire can spread so fast in residential homes that the whole house can burn down before the fire department arrives. Isolating rooms where fires are more likely, reduces the effects of fire on the rest of the building and increases the time the fire fighters have to put it out before it spreads.

A fire compartment can be designed to restrain a fire for 60 minutes, which could be sufficient time to evacuate the building safely, for the fire department to arrive and to extinguish the fire, that is if the fire does not burn out on its own due to lack of oxygen, material, or both.

Compartmentalisation is not the only consideration. Compartmentalisation of rooms where fires are likely should also take into account where the occupants are located, and their numbers; the types of activities being performed on the premises; the fire evacuation route; the fire alarm system and other systems linked to the fire alarm. This is evident in the designs the architect has incorporated into our new factory which were built in Huddersfield city centre.

Without my important modifications to the original plans, the whole site would be exposed to unnecessary and preventable risk from fire and the following consequences: employees would be exposed to the dangers of an evacuation through smoke filled corridors that would disorientate and impede the evacuation leading to possible loss of life; the building itself would be unusable and even unsafe and could be condemned; the business would lose its manufacturing capability leading to loss of business in the short term and/or even the possible closure in the long term.

For over 30 years, Polyseam has years developed products to simplify the installation of fire stopping of service penetrations. Solutions to problems do not have to be complicated, expensive and time-consuming, instead Polyseam offers simple solutions designed and tested in apertures and services as installed in real situations and solved through complicated chemistry. Who are we to tell the construction business how to insulate a pipe, or cut a hole in a gypsum wall? No! It is better for the construction business to have solutions adapted to meet their requirements for products, installation and performance.

I truly hope this handbook, and all the other things we are doing, can be useful so that we build safely in the future.



Kjetil Bogstad
CEO of Polyseam
& Handbook Editor

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Which products should be used where?

In most cases, the type of product chosen depends on the size and configuration of the seal or aperture to be fire protected, the construction type and the type of services (if any) that penetrates the construction. This can be simplified by saying that where there are no gaps or gaps less than 10mm, the putty cord product or collars are used, small gaps above 10mm a sealant is normally used and for larger apertures the board and mortar products are used. These solutions are given in general in the two following tables, and the details are given in the technical appendixes found in this handbook, which can easily be located using the index on the last pages.



Typical sample of penetrating services with gap widths between 0 and 10mm



Typical sample of penetrating services with gap widths between 10 and 30mm



Typical sample of penetrating services with gaps above 30mm or mixed services

Product Selector - Linear Seals

Properties	Construction	Seal Size	Product
Normal	Walls and floors	Up to 100mm wide	Protecta FR Acrylic
Water proof and high movement		Up to 30mm wide	Protecta FR IPT
Extra wide with some movement	Walls	Up to 1,200mm wide	Protecta FR Board
	Floors	Up to 800mm wide	
Extra wide and loadbearing		Up to 800mm wide	Protecta EX Mortar

Product Selector - Penetrating Services

Seal Size	Construction	Services	Protecta Product(s)
Gap between 0 and 10mm	Walls and floors	Cables	FR Putty Cord
		Metal pipes; un-insulated or mineral wool insulations	
		Metal pipes; combustible insulations	FR Collar
		Plastic pipes	
		Ventilation ducts	FR Putty Cord & FR Damper
Gap between 10 and 30mm		Cables & conduits	FR Acrylic
		Metal pipes; un-insulated or mineral wool insulations	
		Metal pipes; combustible insulations	FR Acrylic & FR Graphite
		Plastic pipes	FR Acrylic, FR Graphite or FR Collar
		Ventilation ducts	FR Acrylic & FR Damper
Gap above 30mm and mixed services	Walls	Cables, conduits, cable trays & busbars	FR Board
		Metal pipes; un-insulated or mineral wool insulations	
		Metal pipes; combustible insulations	FR Board & FR Pipe Wrap
		Plastic pipes	
		Ventilation ducts	FR Board & FR Damper
	Floors	Cables, conduits and cable trays	EX Mortar
		Busbars	FR Board
		Metal pipes; un-insulated or mineral wool insulations	EX Mortar
		Metal pipes; combustible insulations	EX Mortar & FR Pipe Wrap
		Plastic pipes	
		Ventilation ducts	EX Mortar & FR Damper

General rules to fire classifications

Aperture sizes and allowed services

The technical drawings in this handbook show the maximum size allowed of any aperture as tested, and as shown also in the product's installation instructions. The maximum allowed cross sectional area of a rectangular aperture, can be used to calculate the maximum allowed cross sectional area of a circular aperture. To calculate the maximum allowed cross sectional area of a circular aperture, simply calculate the size in for instance cm^2 and then use this to calculate the allowed diameter (Ø):

A rectangular aperture of 1200 x 2400mm would have a cross sectional area (A) 28,800cm^2
radius = √(A/Π) = √(28,800/3,14) = √9172 = 96cm
Ø = radius x 2 = 96x2 = Ø192cm

An approval for a circular aperture is not allowed to be used in a rectangular aperture.

Additional aperture sizes in floors

Under EN 1366-3 rules, results from tests in floors with a penetration seal length of minimum 1m apply to any length as long as perimeter length to seal area ratio is not smaller than that of the test specimen. The following aperture sizes are therefore allowed where 2400 x 1200 mm is described in this handbook and in the products installation instructions.

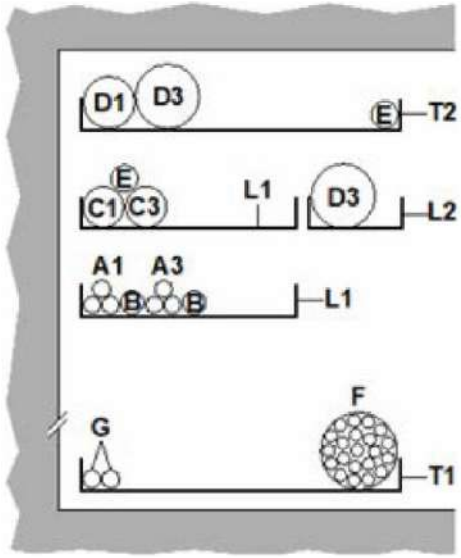
Maximum Aperture Sizes within Floors or between Floors and Walls
1200 mm width x 2400 mm length (tested)
1100 mm width x 2900 mm length (allowed)
1000 mm width x 4000 mm length (allowed)
900 mm width x 7000 mm length (allowed)
≤ 800 mm width x ∞ (infinite) length (allowed)

Service sizes

The test standard (EN1366-3) groups services to be tested for approval. For instance, all cables in the group up to a certain diameter must be tested otherwise, approval is only granted for the exact specimen tested, and this has no practical value.

For cables, there are many groups to test to obtain full approval. For example to obtain approval for all cables up to 21mm diameter, it is necessary to test the following cables: type A1, A3 (A cables are 5 x 1.5mm^2) and B (1 x 95mm^2). The position of the cables in the test is also subject to how the cables are allowed to be positioned in practical. The testing of cables on cable trays normally consists of 4 cable trays packed with different types of cables, wires and conduits.

Our specifications for installation are simplified to allow the installation to be performed correctly and with the least complexity, however testing to achieve the specifications is anything but simple. In general we specify service sizes with the symbol ≤ in front. Without this symbol, the size of the service is exactly as specified. The same can be said for pipes. For metal pipes testing consists of a certain design group which includes pipe diameter and wall thickness. However, where we do not specify this, it is because we have tested all the different wall thicknesses available. For plastic pipes testing also includes the different plastics, eg: PVC, PE and so on.



Example of one standard configuration for cable penetration systems according to EN 1366-3:2022

Fire classifications; what do they mean?

In Europe we all use the same system to classify fire resistance, not only in fire stop seals, but also in walls, floors, doors and so on. In fire stopping, only a few letters are used to indicate the result and what protection the installation gives.

E - Integrity, the time it takes for fire to physically spread through a fire seal. At the point of failure one can see the glow of the fire through the seal, flames coming through or via a cotton pad which catches fire when held close to the seal by the test technician. This is the simplest classification to achieve.

I - Insulation, the temperature, measured on the non-fire side has increased by 180°C on either the fire seal or the services. This is measured through many thermocouples placed in strategic locations. The intention is to replicate the lowest possible temperature that can actually start a fire, even though the fire itself has not passed through the fire seal. This is the more difficult classification to achieve.



Photo shows a fire test after 2 hours at Warringtonfire in UK

In most European countries, there is a demand that the fire classification should include both integrity E and insulation I. However, if the fire seal is in an area where no combustible material are close by, and no combustible materials are likely to be placed close by, an engineering judgment could be taken to approve usage of the integrity classification only. This is why we state both classifications in this handbook.

The letters are followed by a number, which is how long in minutes the integrity and insulation were maintained. For instance, the classification **E 60** is integrity for one hour, whilst **EI 120** is both integrity and insulation for two hours.

Pipe end configurations

When testing pipes, one can choose not to cap (or close) or to cap the pipe inside or outside the furnace. The configuration chosen depends on the intended application of the pipe and/or the installation environment. The code defining if a pipe is capped is stated after the fire classification. For instance EI 60 C/U means the pipe was capped inside the furnace, and uncapped outside the furnace.

Field of application rules for pipe end configuration:

		Tested			
		U/U	C/U	U/C	C/C
Covered	U/U	-	NO	NO	NO
	C/U	YES	-	NO	NO
	U/C	YES	YES	-	NO
	C/C	YES	YES	YES	-

Our engineering judgment based on EN 1366-3:2022:

Intended use of pipe		Pipe end condition
Rainwater pipe, plastic	At drainage	U/U [1)]
	Not at drainage	C/C [2)]
Drainage or sewage pipe, plastic	Ventilated drain	C/U [1)]
	Unventilated drain	U/C [2)]
	Drain w/water trap	U/C [1)]
	Not at drainage	C/C [2)]
Metal or plastic pipe in closed system (water, gas, air etc.)		C/C [1)]
Metal pipe in ventilated system (sewage etc.)		U/C [1)]
Flue gas recovery system pipe, plastic		U/C [1)]
Pipe with open ends and ≥ 50cm length on both sides, plastic		U/U [2)]
Waste disposal shaft pipe, metal		U/C [2)]

[1)] Suggested in EN 1366-3:2022. [2)] Polyseam' s judgment based on assessments.



Surrounding constructions

The wall or floor construction used in a test will limit the scope of certification. The general rule is that the wall or floor thickness tested will be the minimum allowed thickness of the wall or floor. Also, if a flexible wall (drywall) is tested then approvals for a rigid wall (concrete/masonry) are also obtained, but not the other way around. So if only rigid walls have been tested, the test data cannot be used for a flexible wall. Certifications for floors are only possible by performing floor tests, and this test data cannot be used to obtain certification for walls.

The standard **flexible wall** constructions specified in the test standard are:

Nominal minimum overall thickness	Thickness of gypsum board EN 520 Type F	Density of wall insulation [1)]	Number of layers each side	Indicative fire resistance in minutes
69 - 80 mm	12.5 mm	30 - 60 kg/m^3	1	30
94 - 105 mm	12.5 mm	30 - 60 kg/m^3	2	60
94 - 105 mm	12.5 mm	85 - 115 kg/m^3	2	90
122 - 135 mm	15.0 mm	85 - 115 kg/m^3	2	120

[1)] Protecta solutions does not require a flexible wall to be insulated.

The standard **service shaft wall** constructions must be tested in both directions and are specified in the test standard as:

Nominal minimum overall thickness	Thickness of gypsum board EN 520 Type F	Density of wall insulation	Number of layers one side	Intended fire resistance in minutes
69 - 80 mm	12.5 mm	N/A	2	30
74 - 85 mm	15.0 mm	N/A	2	60
89 - 100 mm	15.0 mm	N/A	3	90
94 - 105 mm	25.0 mm	N/A	2	120

The standard **rigid wall and floor** constructions specified in the test standard are high density rigid constructions made of concrete and have a density of ≥ 850 kg/m^3. Low density rigid constructions shall be made of aerated concrete slabs and have a density of ≥ 350 kg/m^3. The thickness should be appropriate for the expected fire resistance period.

Supporting constructions and service supports

The supporting constructions (fire rated walls and floors) should be classified in accordance with EN 13501-2 for the required fire resistance period.

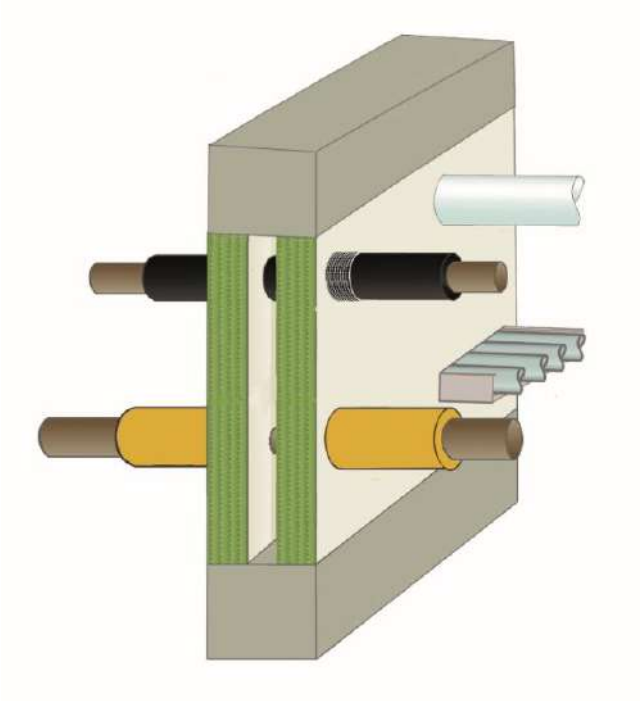
Services in floors should have the first support located maximum 450mm from the top face, and services in walls should have the first support located maximum 250mm from both faces of the wall. Thereafter the services should be supported according to the support system manufacturer's installation instructions. Some Protecta products allows greater distances.

Mixed services within the same aperture

The systems, Protecta FR Board and Protecta EX Mortar, may be used to provide a penetration seal with cables, cable trays, conduits, busbars, metallic pipes, ventilation ducts, composite pipes and plastic pipes, with and without insulation, with mixed services within the same seal/aperture.

Services should be a minimum of 25 mm from seal edges, but do not require minimum separation, except where Protecta FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture.

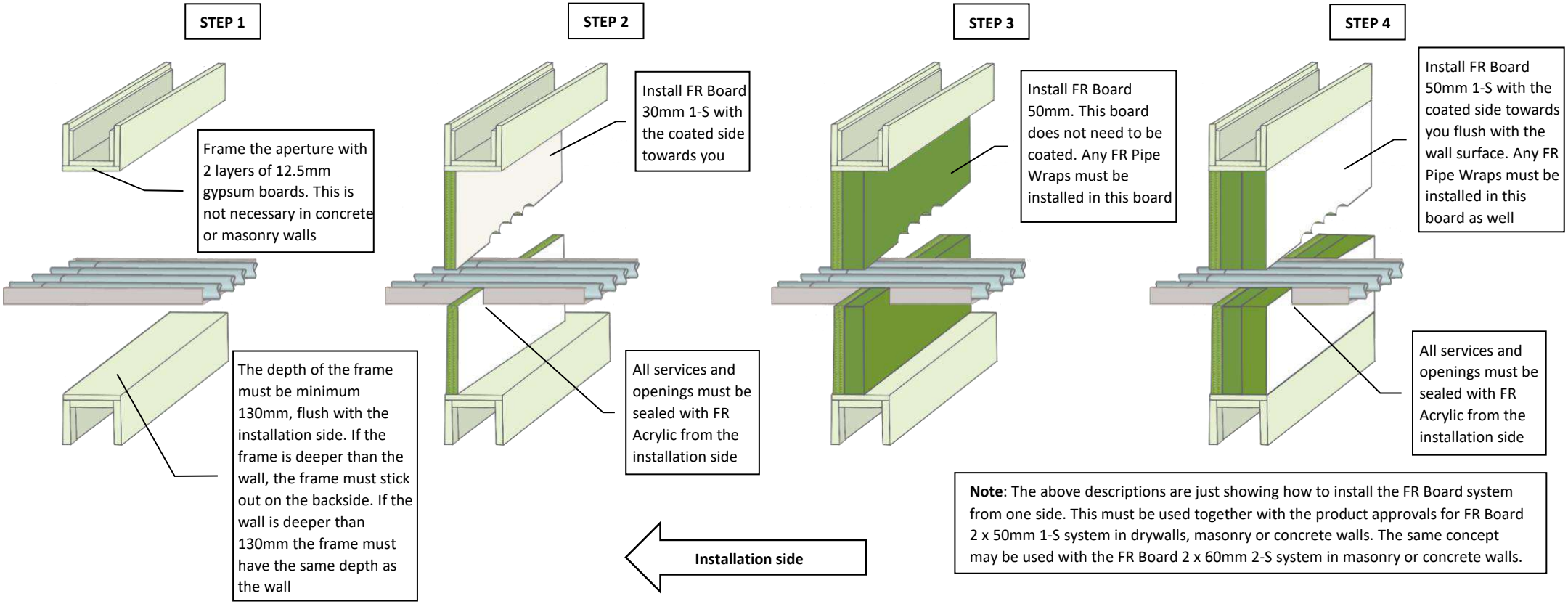
If services are closer than 25mm from seal edges, a pattress application with Protecta FR Board may be used. Such applications provides greater width of the fire seal, which lowers the penetrating heat through services.



Normal on-site problems and solutions

Single sided access, walls

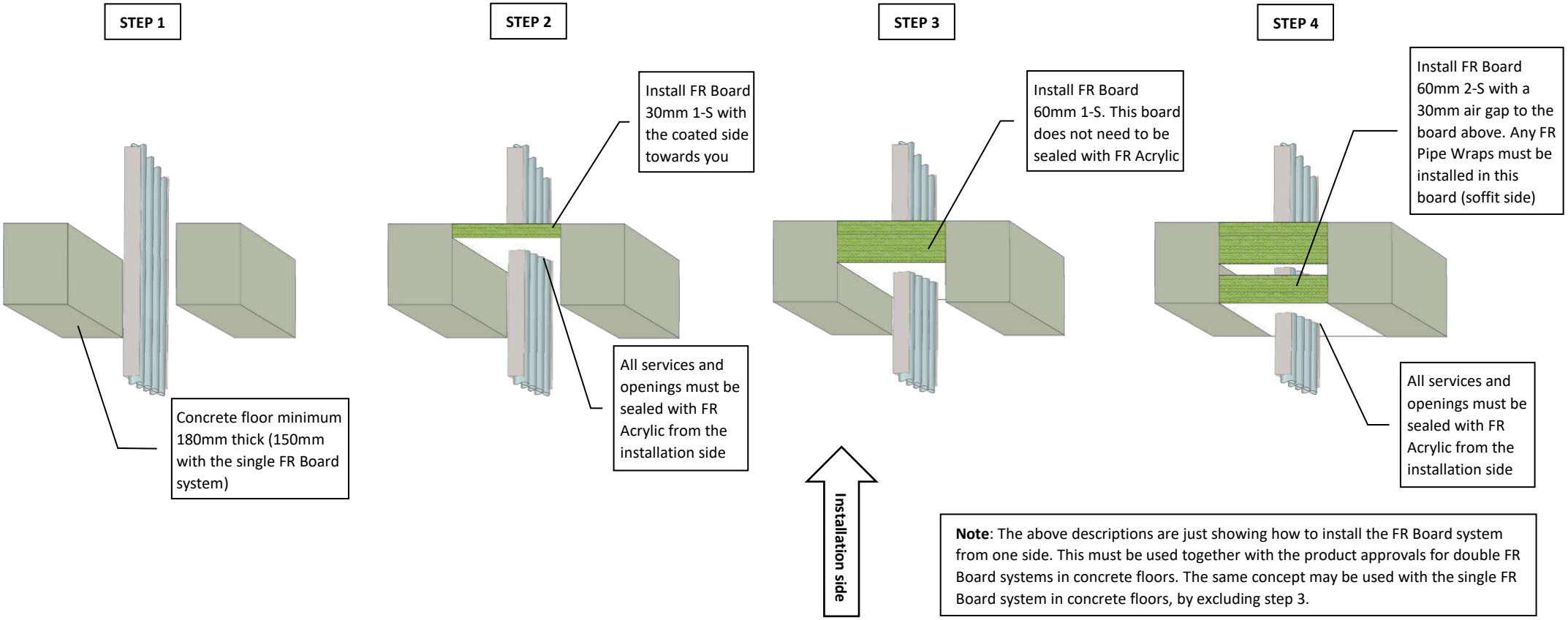
On construction sites there may be cases where an aperture for a fire seal that is to be installed is only accessible from one side. With many of the Protecta® products this scenario is already tested, certified and included in this handbook, but one issue is the Protecta FR Board system which requires the sealing of gaps from both sides of a wall after insertion. However this is solvable by using an additional inner board with the coating facing towards the installer; it will result in the same fire seal as the certified solutions. Below are the detailed descriptions and this is especially useful with risers or shafts with gypsum boards on only one side.



Note: The above descriptions are just showing how to install the FR Board system from one side. This must be used together with the product approvals for FR Board 2 x 50mm 1-S system in drywalls, masonry or concrete walls. The same concept may be used with the FR Board 2 x 60mm 2-S system in masonry or concrete walls.

Single sided access, floors

The Protecta FR Board system requires the sealing of gaps from both sides of a floor after insertion (these solutions are not included in this handbook, but can be found in the installation instructions for Protecta FR Board). However, with access to only one side, this is solvable by using an additional upper board with the coating facing towards the installer; it will result in the same fire seal as the certified solutions. Below are the detailed descriptions.



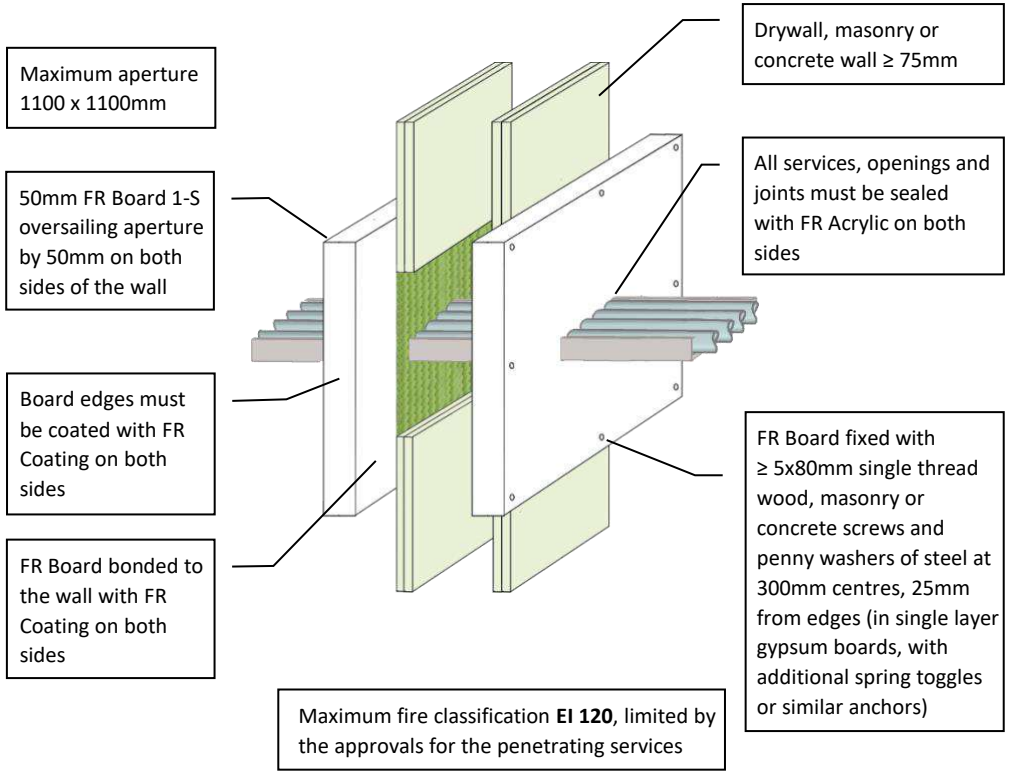
Note: The above descriptions are just showing how to install the FR Board system from one side. This must be used together with the product approvals for double FR Board systems in concrete floors. The same concept may be used with the single FR Board system in concrete floors, by excluding step 3.

Restrictive fire seals and the pattress solution

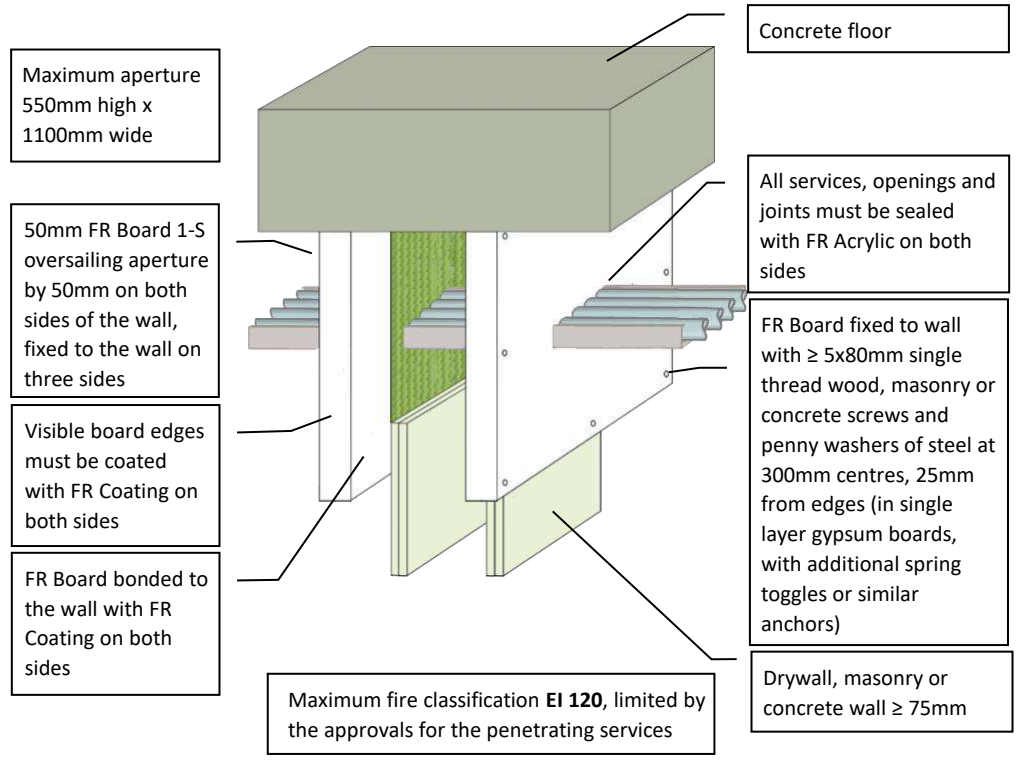
Some fire seals in walls can be restrictive, so it is difficult to insert the different pieces of the Protecta FR Board. Therefore Polyseam has tested a pattress system, where the boards are installed on the surface of the wall instead of inside the aperture. This is then an additional way of fixing the boards, but the fire classifications will still be limited to the different services given in this handbook, for drywalls with the system 2 x 50mm 1-S. Furthermore, any FR Pipe Wraps must be included.

There are two ways the pattress system can be installed, as follows:

System 1: The aperture located within the wall



System 2: The aperture located towards the soffit



FAQ's

GENERAL

Q: *What certifications are available?*

A: The Protecta® fire stopping range has ETA certifications and the CE-mark for Europe and Africa, UKTA certifications and the UKCA-mark for United Kingdom, UL-EU International certifications for Asia and South America and local certifications for the United Arab Emirates, New Zealand and Australia.

Q: *Where are the products manufactured?*

A: The Protecta® range is manufactured at the Polyseam factory in Huddersfield, United Kingdom.

Q: *To what fire standard is the products tested?*

A: For fire stopping of service penetrations, the test standard used is EN 1366-3 and EN 1366-12 in conjunction with EN 1363-1.

CONSTRUCTIONS

Q: *I am doing a fire seal in a drywall with calcium silicate boards and not normal gypsum boards, is that ok?*

A: Yes, as long as the wall is classified according to EN 13501-2 for the required fire resistance period, and the wall thickness is equal or greater than the approval for the fire stopping product.

Q: *I have a fire seal in a floor, can I use the approvals for a drywall?*

A: No. The EuroNorm states that fire seals in floors have to be tested and approved independently from walls.

Q: *Can approvals for drywalls be used in concrete walls?*

A: Yes. The EuroNorm allows this but tests and approvals for concrete or masonry walls cannot be used in drywalls.

Q: *I have a cable going through a drywall on one side and it does not penetrate the wall, however the instructions show only double sided fire seals?*

A: Use the normal instructions for double sided seals, the wall boards on the other side will do the same job as the fire seal which will result in a double sided fire seal.

Q: *I am to do a fire seal in a swimming pool area and need something moisture proof, what should I use?*

A: For smaller seals you can use either the Protecta FR IPT sealant or the FR Putty Cord. For larger seals you can use Protecta FR Board, but after you have sealed the gaps and openings with FR Acrylic, apply a layer of FR Coating on top of the acrylic.

Q: *Can the firestop details given in concrete floors be used in timber floors?*

A: No, it is not allowed. Please see our handbook for timber constructions.

FAQ's

FIRE SEALS

Q: *Is it acceptable that instead of a minimum 100mm depth of Protecta EX mortar, I can use a 50mm stonewool slab with 50mm depth of mortar?*

A: No. But where 50mm depth of mortar on 50mm stonewool is mentioned, you can use 100mm depth of mortar instead and with no stone wool.

Q: *Do I need to remove a shuttering stone wool board when the shutter is not shown as part of the approval for EX Mortar in a floor?*

A: No, the shutter will only increase the fire resistance, and will not hinder any pipe wraps expanding normally.

Q: *With Protecta fire rated sealants, a minimum seal width of 10mm is advised, but can it be less?*

A: Minimum seal width should be 10mm to allow for correct fitting of backing and seal depth, however, less width can be accepted if correct fitting is achieved. Please note, in some instances, the sealant is designed to close a gap, for instance around plastic pipes, and in those cases 10mm would be the minimum width (such cases are specified in the technical solutions).

Q: *A solution states 12.5mm depth of a Protecta sealant on a 12.5mm backing of stonewool, can I instead seal with 25mm sealant and skip the backing?*

A: Yes, the Protecta sealant will give better fire resistance than the stonewool backing material so if the total depth is the same or greater this is ok.

Q: *There is a solution for a double sided seal with a Protecta sealant at 15mm depth in a rigid wall. Can I instead seal this single sided at 30mm depth?*

A: No. The fire seal will be weaker as the penetration speed of the fire will increase during heating of the material. With a double sided fire seal the fire has to effectively 'start again' when it meets the second seal. However, as a fire stopping solution it is better to do a single sided seal on both sides, resulting in a higher fire resistance.

Q: *It is stated that I should use a stone-wool backing with a Protecta sealant, can I instead use Protecta Backing material?*

A: Yes, the Protecta backing is made of AES fibres which has greater fire resistant than stonewool. However, if Protecta Backing is stated, you cannot use a stonewool backing.

Q: *I have a special fire seal that is not mentioned in any of the solutions, what do I do?*

A: Please contact Polyseam and we will assess if we can make an Engineering Judgment or an Assessment.

FAQ's

CABLES

Q: *The instructions mention cables, but does that include all types of cables?*

A: Yes. We have tested groups of cables which gives approvals for all kinds, including aluminium, copper and fibre optic cables.

PIPES

Q: *I have a penetrating pipe made of iron, but it is not mentioned in the instructions?*

A: Iron is the base metal of steel, so use the instructions for steel pipes.

Q: *I am to fire seal a plastic pipe, but it is not a standard PVC, PE or PP pipe. Can I use the general instructions for plastic pipes?*

A: Yes, in most cases. Where PVC pipes are mentioned, this includes PVC-C and PVC-U pipes. 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.

Q: *It is stated 'alupex' pipes in the instructions; can I use Geberit Mepla MLC pipes?*

A: Yes. Alupex is a general term for composite aluminium pipes. They consist of an aluminium core that is covered on the inner and outer sides with thin plastic. Some alupex pipes on the market are:

- FRÄNKISCHE alpex F50 PROFI
- GEBERIT Mepla MLC
- JRG Sanipex MT
- KE KELIT Kelox
- REHAU Rautitan stabil
- TECEflex
- UPONOR MLC
- VIEGA Sanfix Fosta

Q: *I am to fire seal a Blazemaster cPVC pipe but I have heard it reacts with fire stopping products?*

A: Protecta FR Acrylic should be used; it has been independently tested and does not react with BlazeMaster or other cPVC pipes.

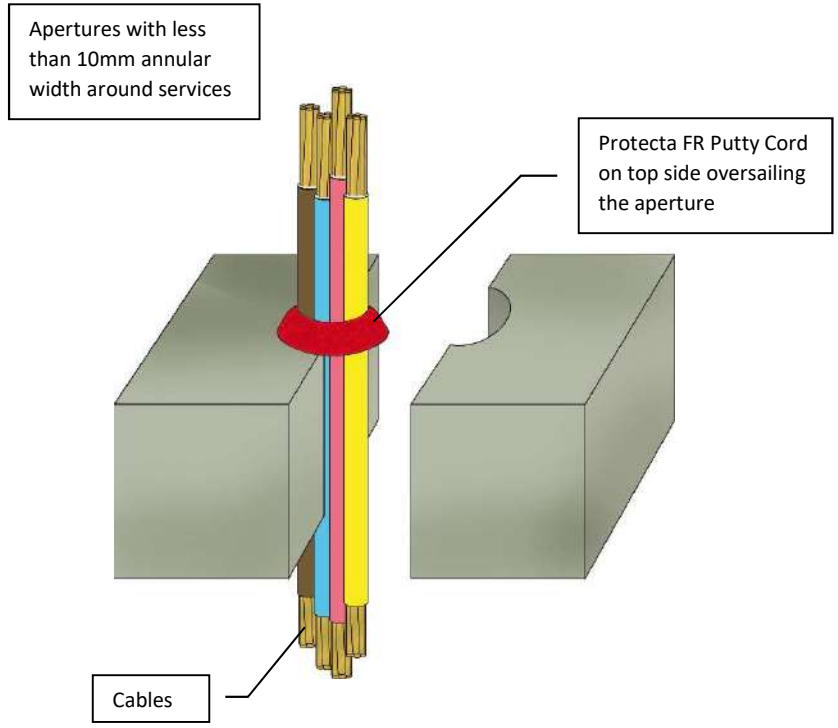
Appendix I

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Service penetration solutions with annular gaps ≤ 10mm

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032 UKTA 22/0024

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.protecta.eu

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Single cables ≤ Ø 21mm	EI 120 & E 120
Single cables ≤ Ø 50mm	EI 90 & E 120
Single cables ≤ Ø 80mm	EI 60 & E 120
Cables ≤ Ø 21mm in tied bundles ≤ Ø 50mm	EI 60 & E 120

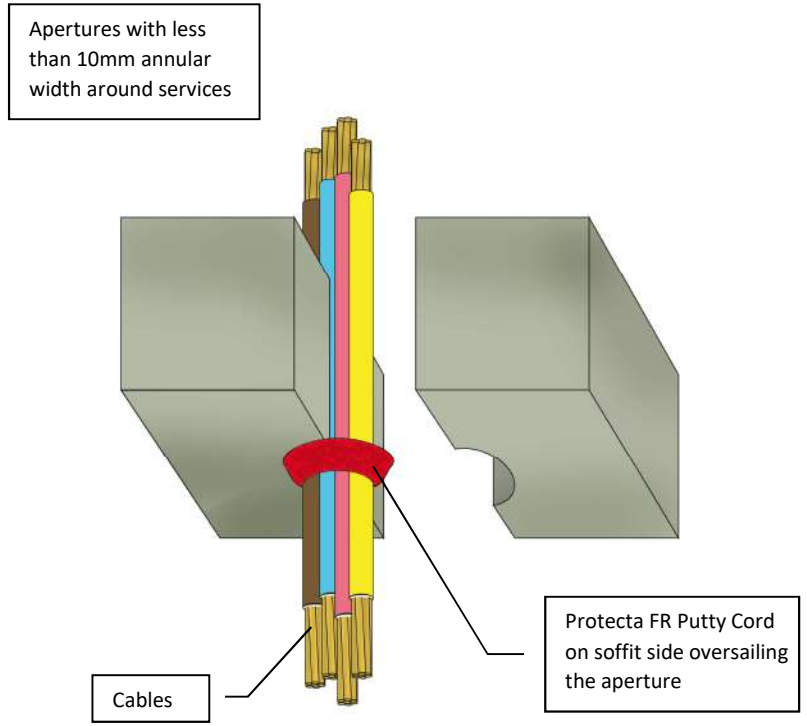
Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 29/5/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. To aid adhesion to porous substrates take a thumb size piece of the putty cord and gently rub over the required installation mounting area.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Single cables ≤ Ø 21mm
EI 60 & E 120

Single cables ≤ Ø 80mm
EI 45 & E 90

Cables ≤ Ø 21mm in tied bundles ≤ Ø 75mm
EI 45 & E 60

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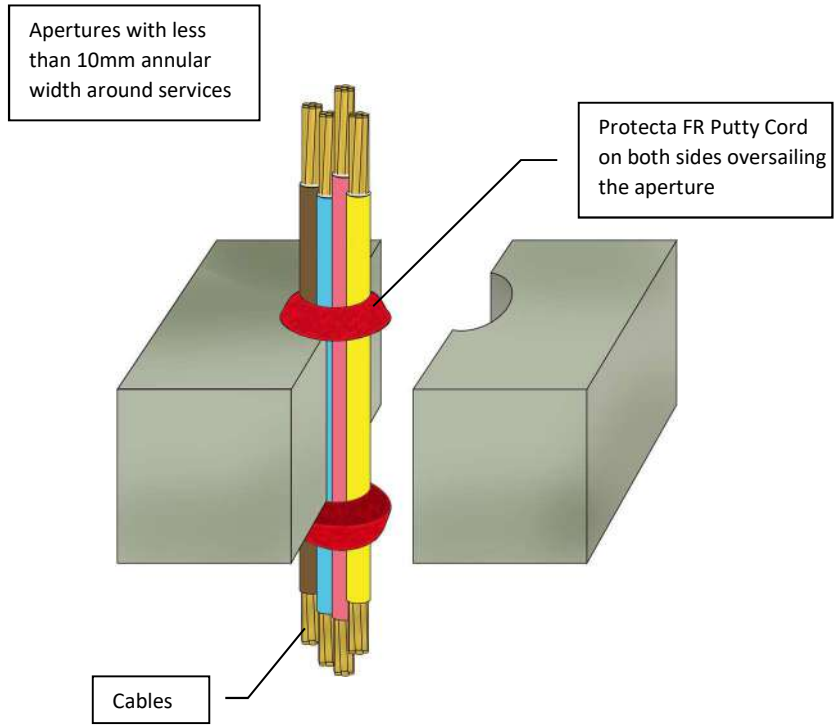
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. To aid adhesion to porous substrates take a thumb size piece of the putty cord and gently rub over the required installation mounting area.
3. Place the Putty Cords around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Cables ≤ Ø 21mm in tied bundles ≤ Ø 50mm
EI 240 & E 240

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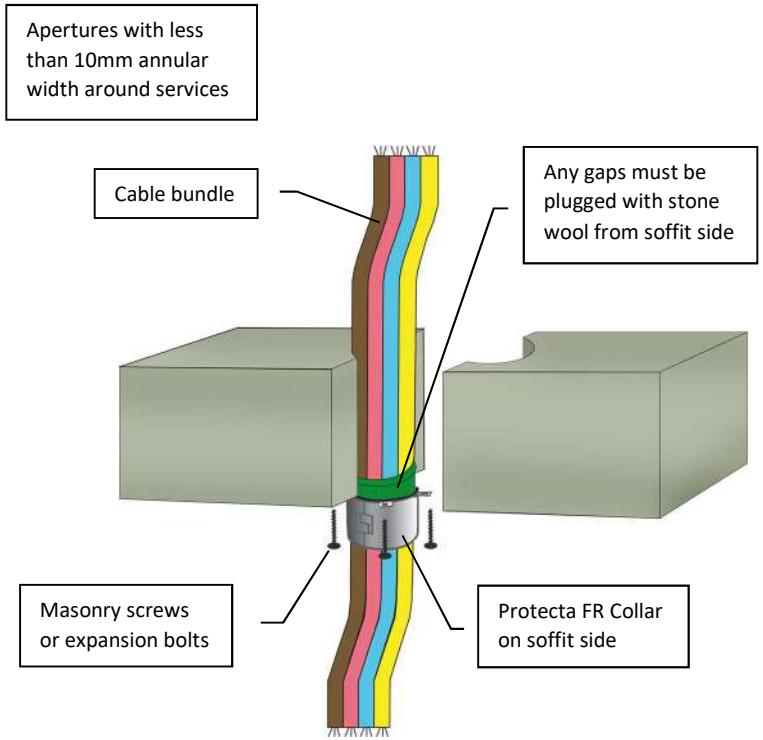
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the cable bundle and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the cable bundle and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Cables ≤ Ø 21mm, in a bundle ≤ Ø55mm, with collars ≤ Ø55mm at ≥ 30mm height
EI 120 & E 120

Cables ≤ Ø 21mm, in a bundle ≤ Ø100mm, with collars ≤ Ø110mm at ≥ 50mm height
EI 90 & E 90

Cables ≤ Ø 21mm, in a bundle ≤ Ø160mm, with collars ≤ Ø160mm at ≥ 60mm height
EI 180 & E 180

Cables ≤ Ø 80mm, in a bundle ≤ Ø125mm, with collars Ø125mm at ≥ 60mm height
EI 60 & E 90

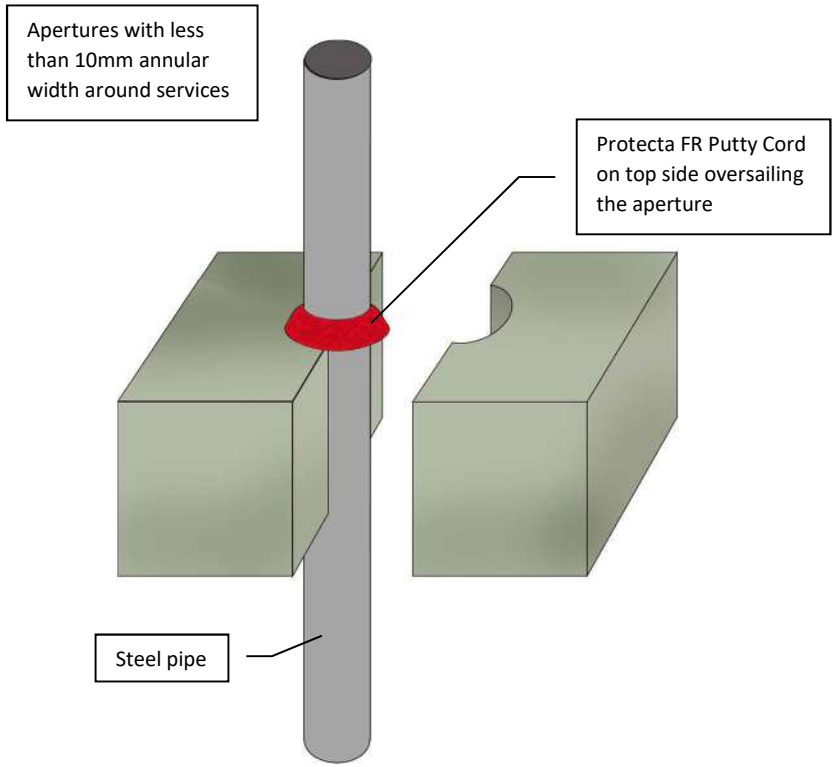
Sound reduction (seal only) 58dB

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032 UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø 22mm
EI 120 C/U & E 240

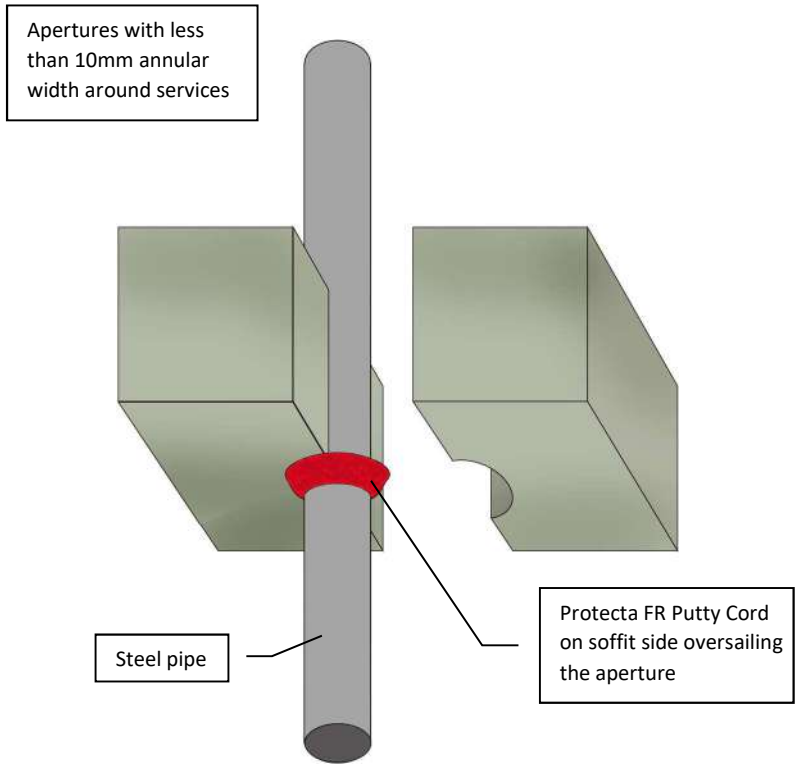
Steel pipe ≤ Ø 324mm
EI 15 C/U & E 240

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. To aid adhesion to porous substrates take a thumb size piece of the putty cord and gently rub over the required installation mounting area.
3. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
4. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø 30mm

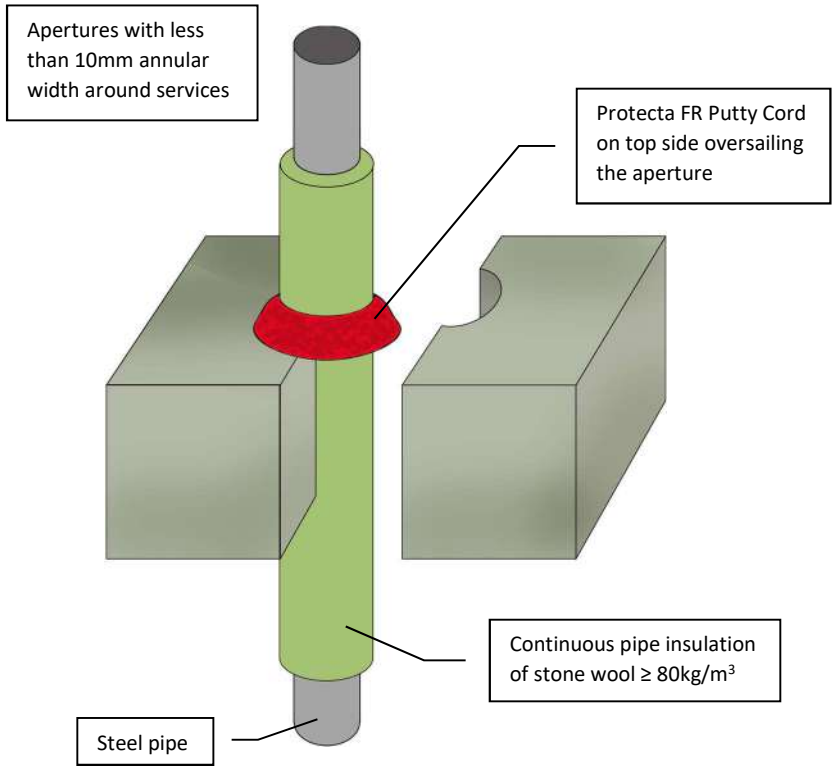
EI 45 C/U & E 120

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Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032 UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with 20mm thick pipe insulation

EI 240 C/U & E 240

Steel pipe ≤ Ø324mm with 30-80mm thick pipe insulation

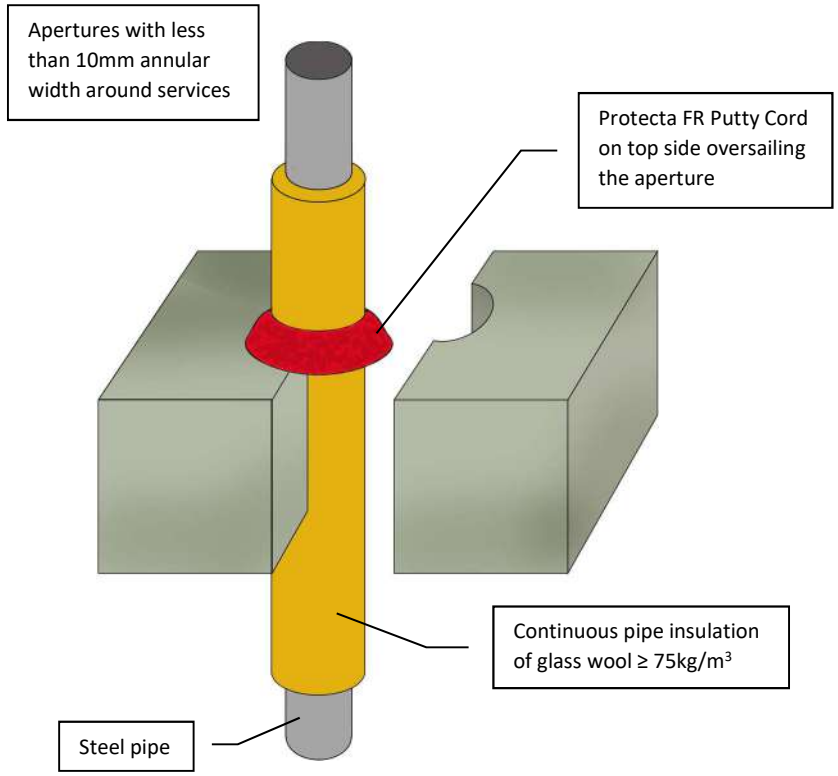
EI 240 C/U & E 240

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with 20mm thick pipe insulation

EI 120 C/U & E 180

Steel pipe ≤ Ø54mm with 20-40mm thick pipe insulation

EI 90 C/C & E 90

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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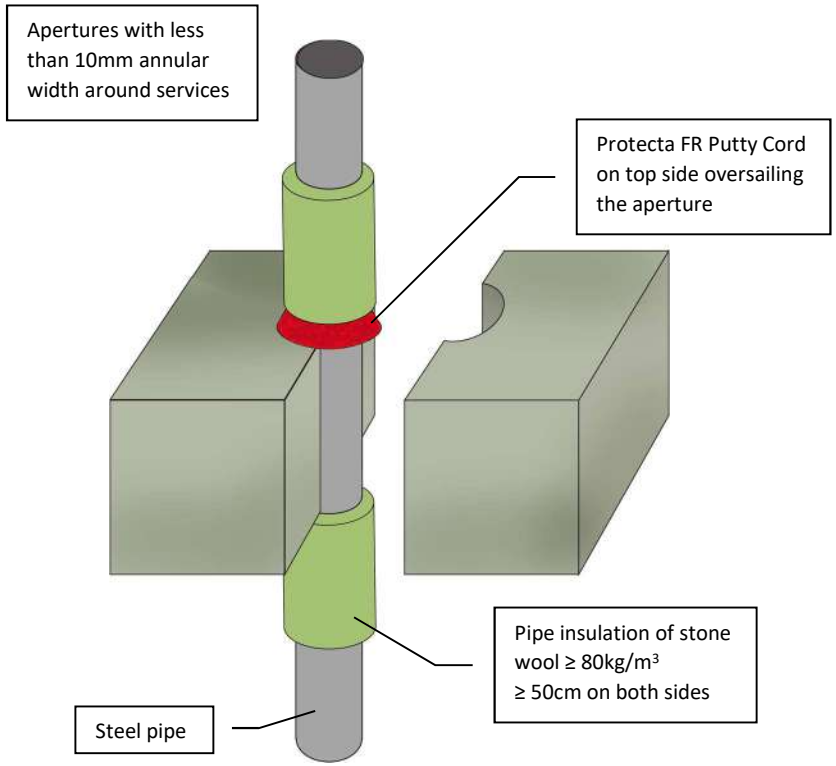
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 4/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation

EI 240 C/U & E 240

Steel pipe ≤ Ø324mm with ≥ 30mm thick pipe insulation

EI 60 C/U & E 240

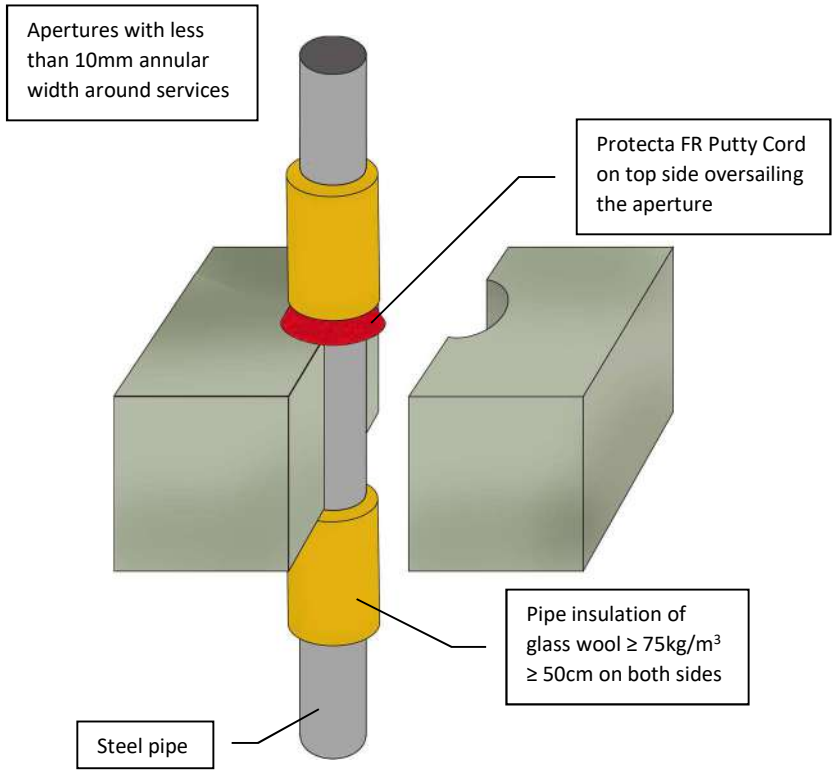
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	29/5/18
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø12mm with ≥ 20mm thick pipe insulation

EI 240 C/C & E 240

Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 120 C/C & E 180

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Tel: +44 (0) 148 4421036
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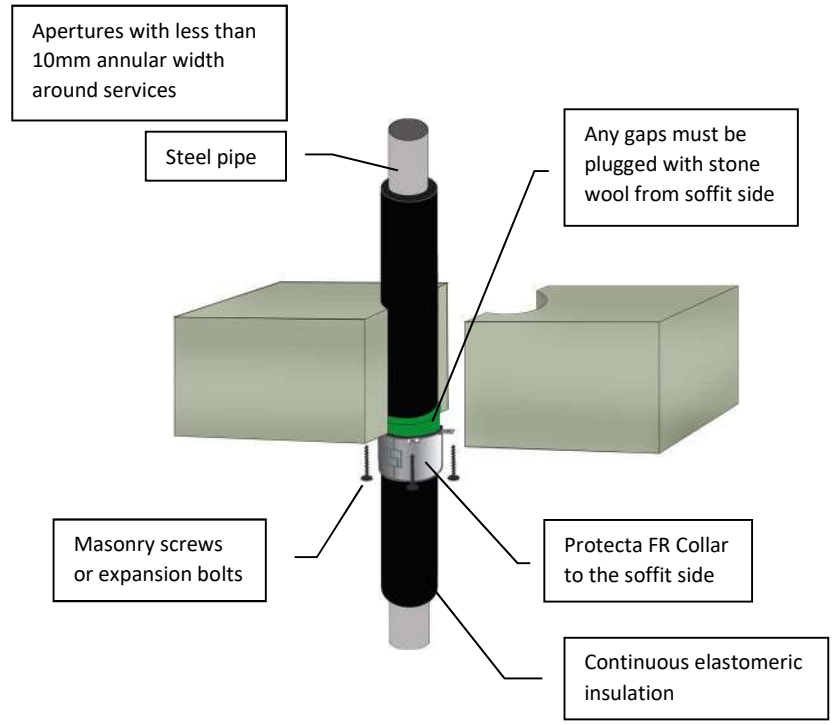
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Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø42mm with 9mm thick pipe insulation with ≤ Ø63mm FR Collar at 50mm height — EI 120 C/C & E 120

Steel pipe ≤ Ø42mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-160mm at 60mm height — EI 60 C/C & E 60

Steel pipe ≤ Ø54mm with 19mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58dB

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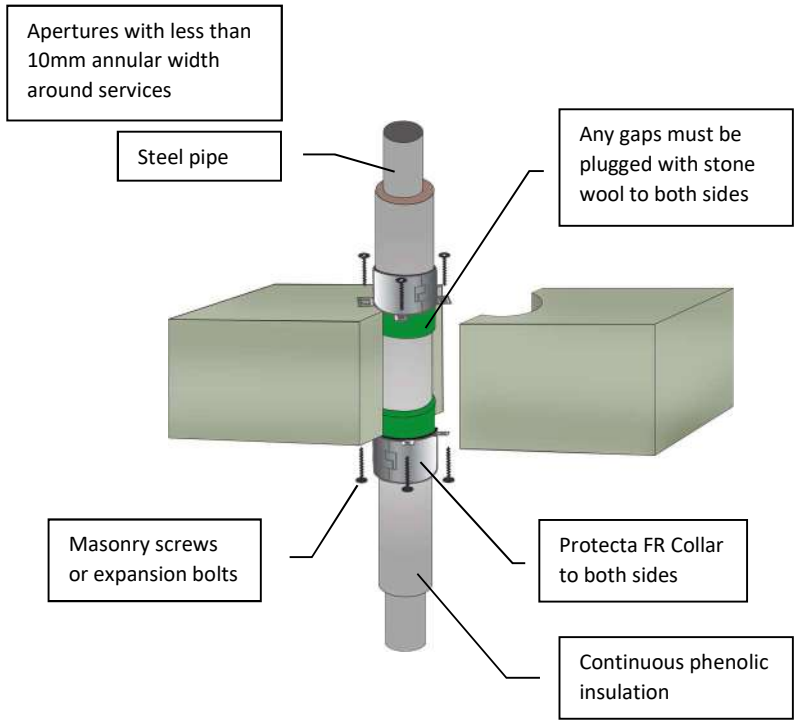
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Signed and approved:

Sheet size: **A4**	Drawn date & no: 20/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place suitable collars around the pipe insulation and ensure that the collar shells and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Steel pipe ≤ Ø158mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 45 C/C & E 120

Steel pipe Ø159mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58dB

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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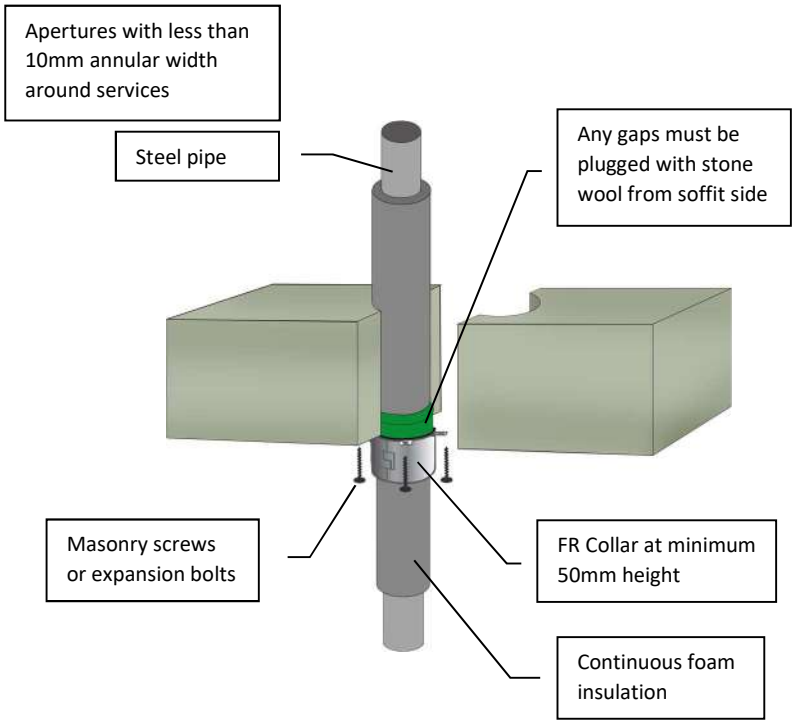
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Steel pipe ≤ Ø54mm with 20mm thick PE insulation E 120 C/C

Steel pipe ≤ Ø54mm with 40mm thick PU insulation EI 60 C/C & E 60

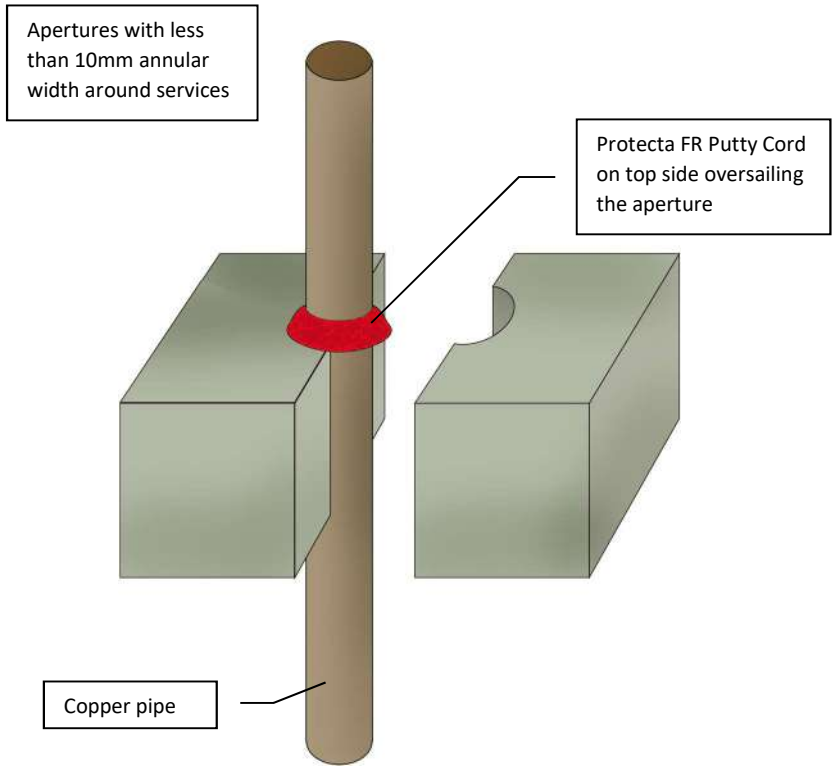
Sound reduction (seal only) Rw 58 dB

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Tel: +44 (0) 148 4421036
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Sheet size:	Drawn date & no:
A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø 10mm — EI 90 C/C & E 120

Copper pipe ≤ Ø 54mm — E 120 C/C

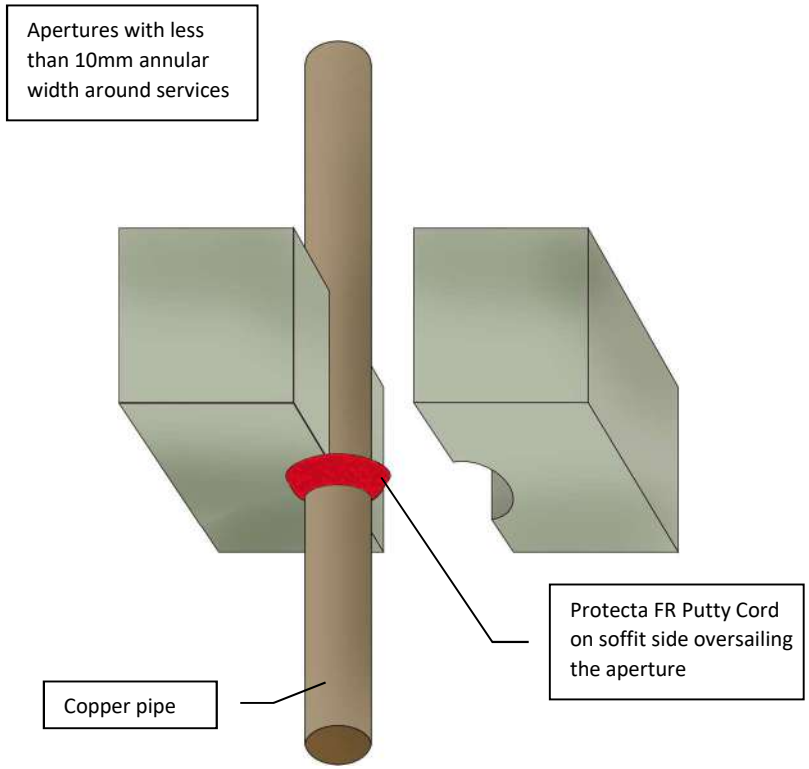
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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. To aid adhesion to porous substrates take a thumb size piece of the putty cord and gently rub over the required installation mounting area.
3. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
4. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø 12mm

EI 30 C/C & E 120

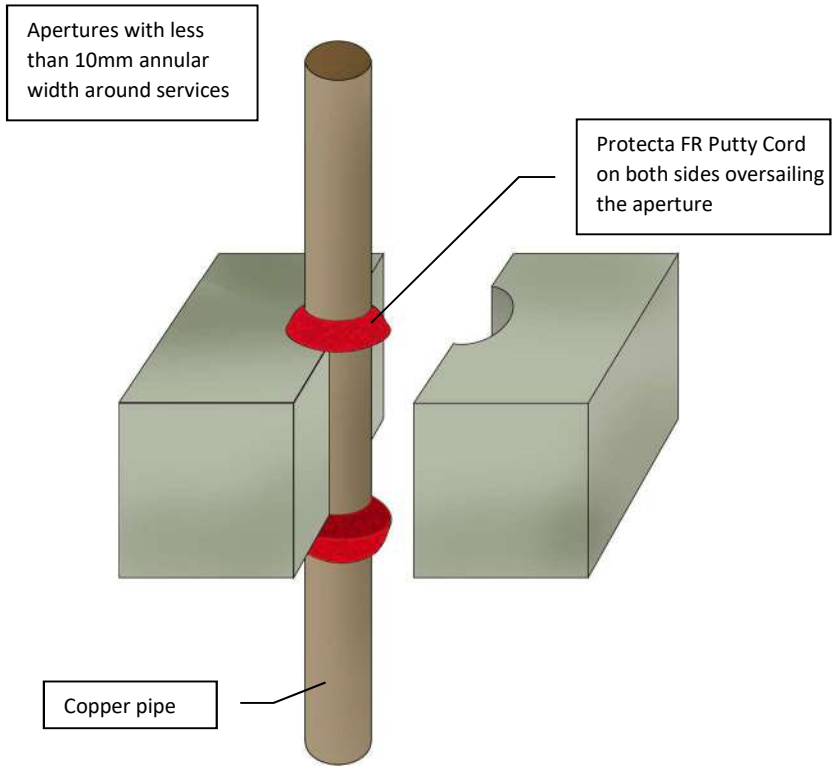
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø 10mm

EI 180 C/C & E 240

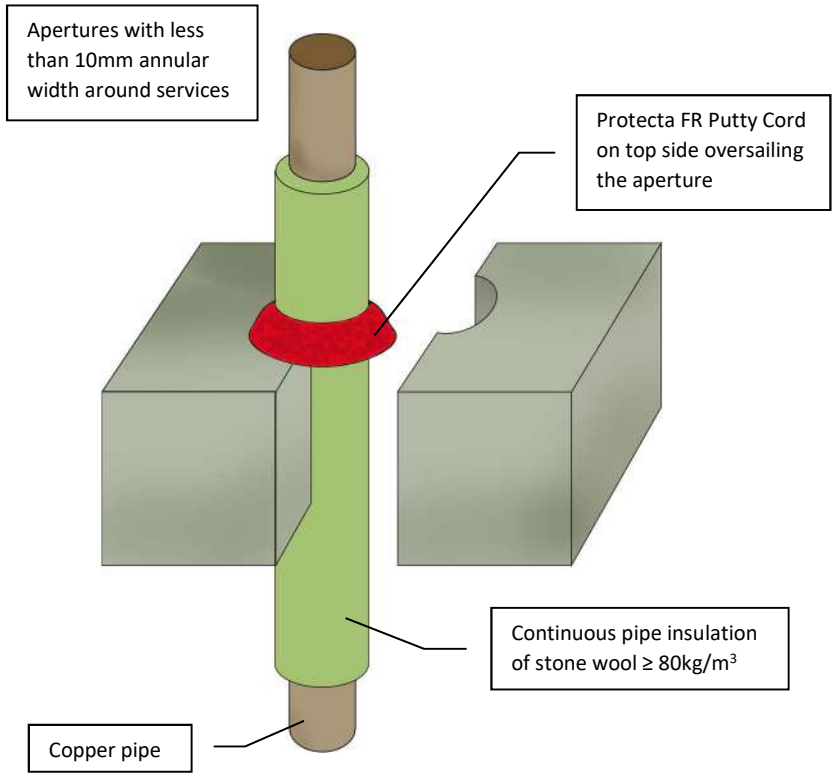
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with 20mm thick pipe insulation

EI 240 C/C & E 240

Copper pipe ≤ Ø54mm with 30-80mm thick pipe insulation

EI 240 C/C & E 240

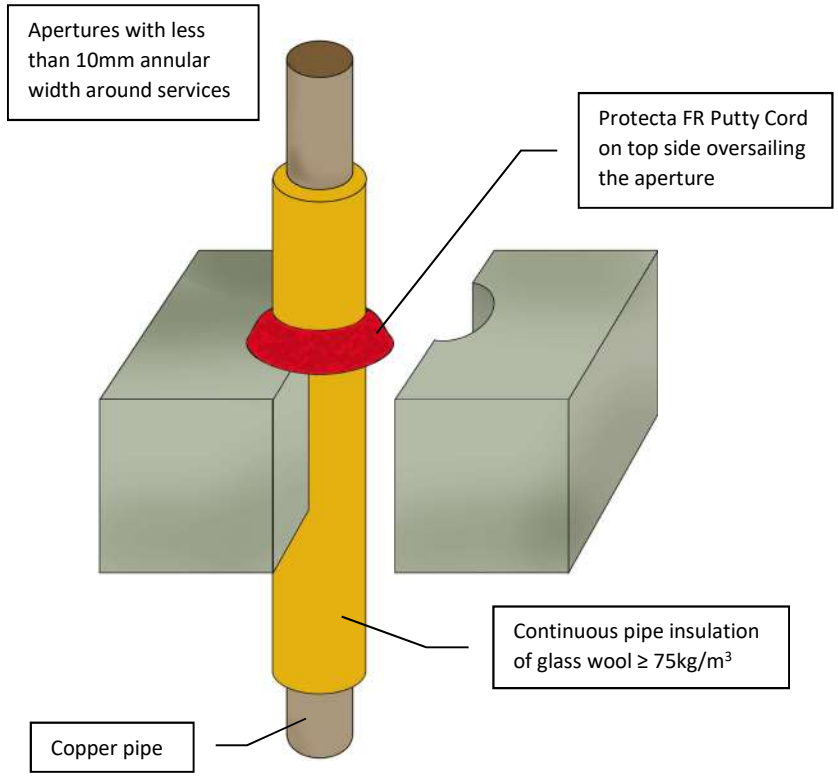
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with 20mm thick pipe insulation

EI 90 C/C & E 240

Copper pipe ≤ Ø54mm with 20-40mm thick pipe insulation

EI 90 C/C & E 90

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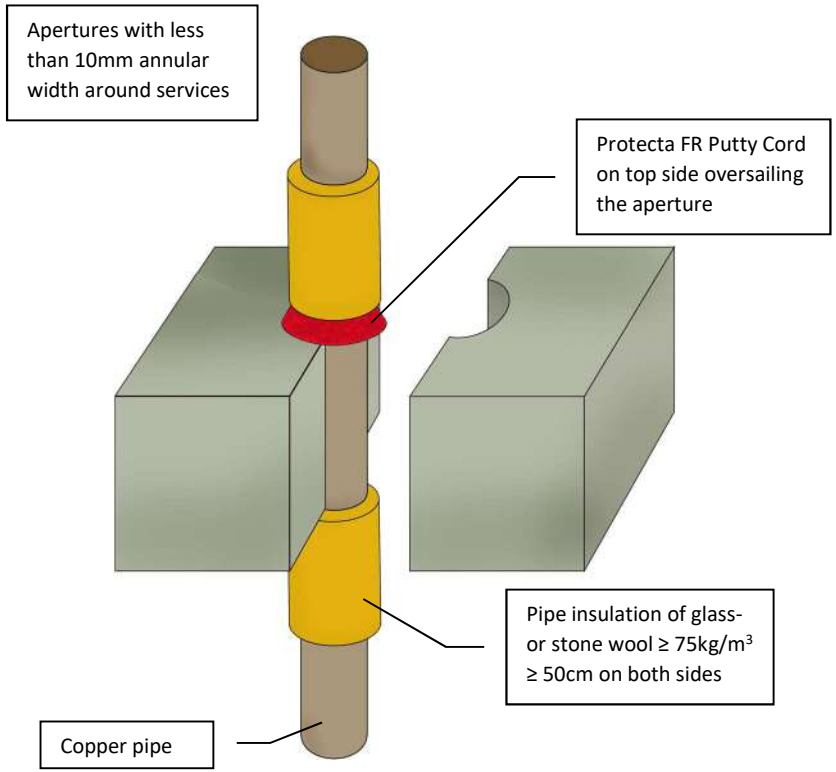
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with ≥ 20mm thick pipe insulation

EI 240 C/C & E 240

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 120 C/C & E 180

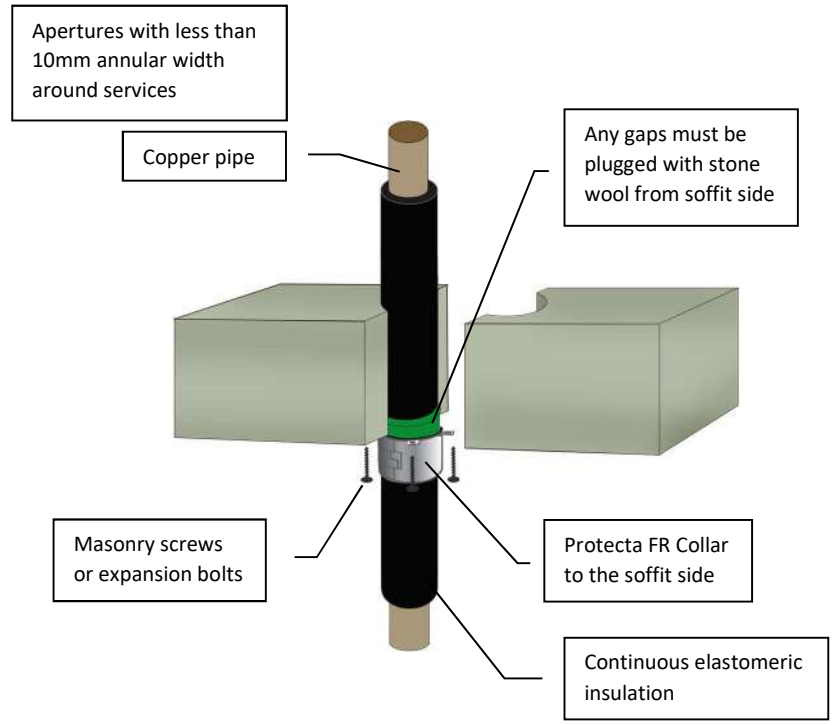
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø42mm with 9mm thick pipe insulation with ≤ Ø63mm FR Collar at 50mm height — EI 120 C/C & E 120

Copper pipe ≤ Ø42mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-160mm at 60mm height — EI 60 C/C & E 60

Copper pipe ≤ Ø54mm with 19mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 60 C/C & E 120

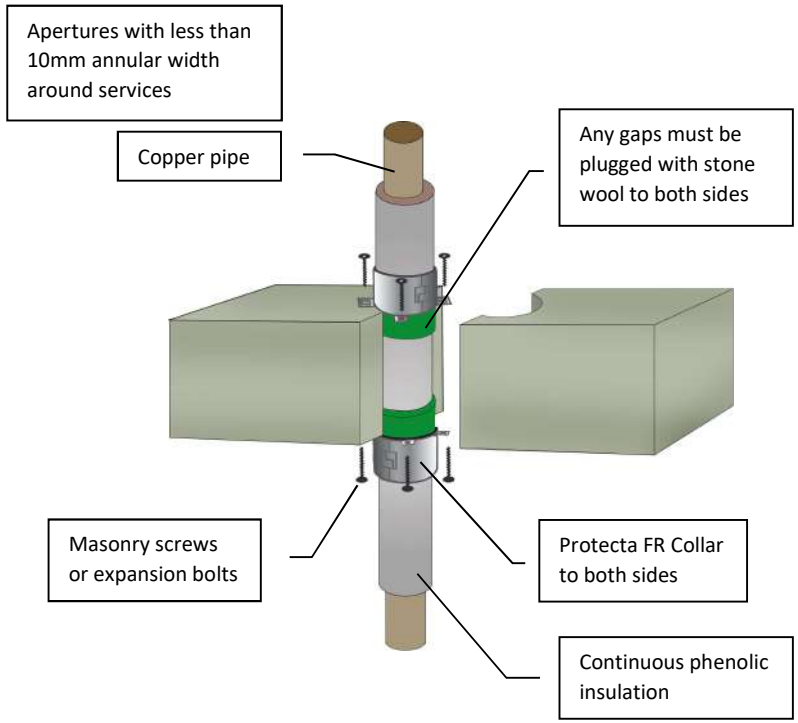
Sound reduction (seal only) — Rw 58dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 20/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place suitable collars around the pipe insulation and ensure that the collar shells and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø158mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 45 C/C & E 120

Copper pipe Ø159mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58dB

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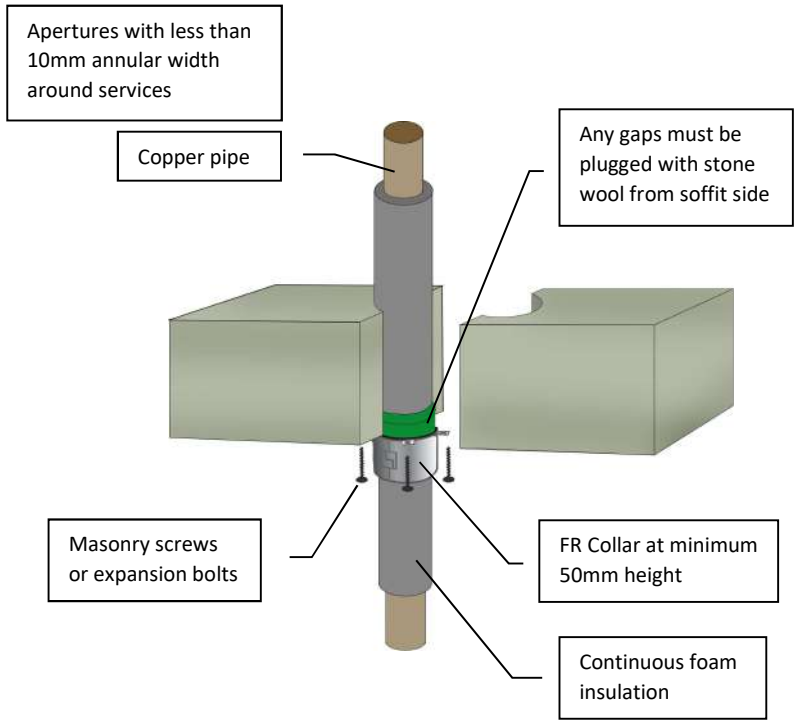
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20mm thick PE insulation E 120 C/C

Copper pipe ≤ Ø54mm with 40mm thick PU insulation EI 60 C/C & E 60

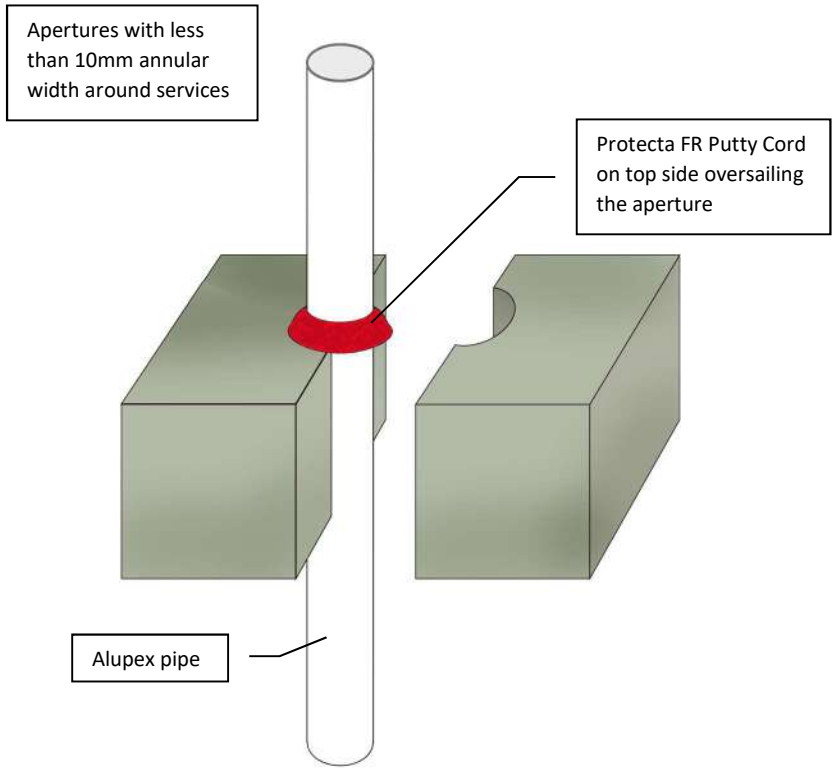
Sound reduction (seal only) Rw 58 dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø 20mm
EI 240 C/C & E 240

Alupex pipe ≤ Ø 75mm
EI 30 C/C & E 45

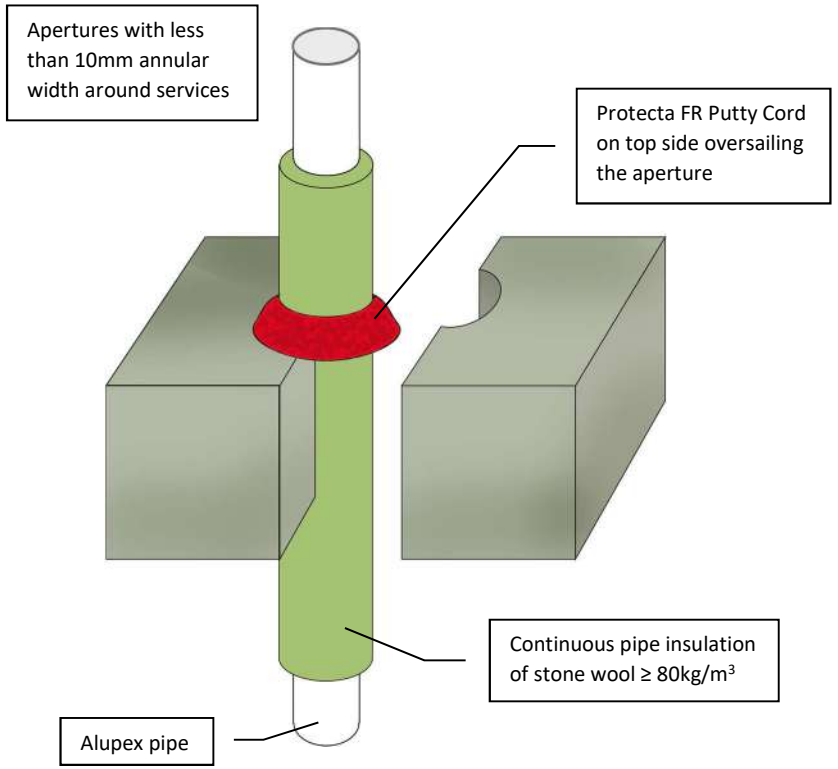
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

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2. Place the Putty Cord around the services so that it seals the services to the floor all the way round.
3. Press the Putty Cord into the floor and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the floor.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 20mm thick pipe insulation

EI 240 C/C & E 240

Alupex pipe ≤ Ø75mm with 30-80mm thick pipe insulation

EI 240 C/C & E 240

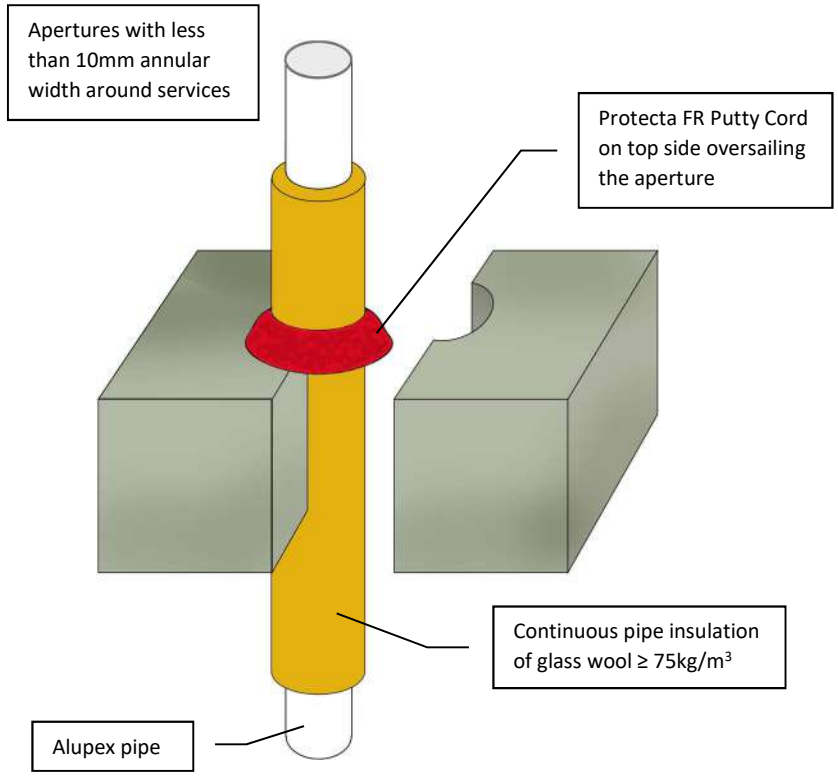
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Installation Instructions

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ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 20-50mm thick continuous pipe insulation

EI 120 C/C & E 120

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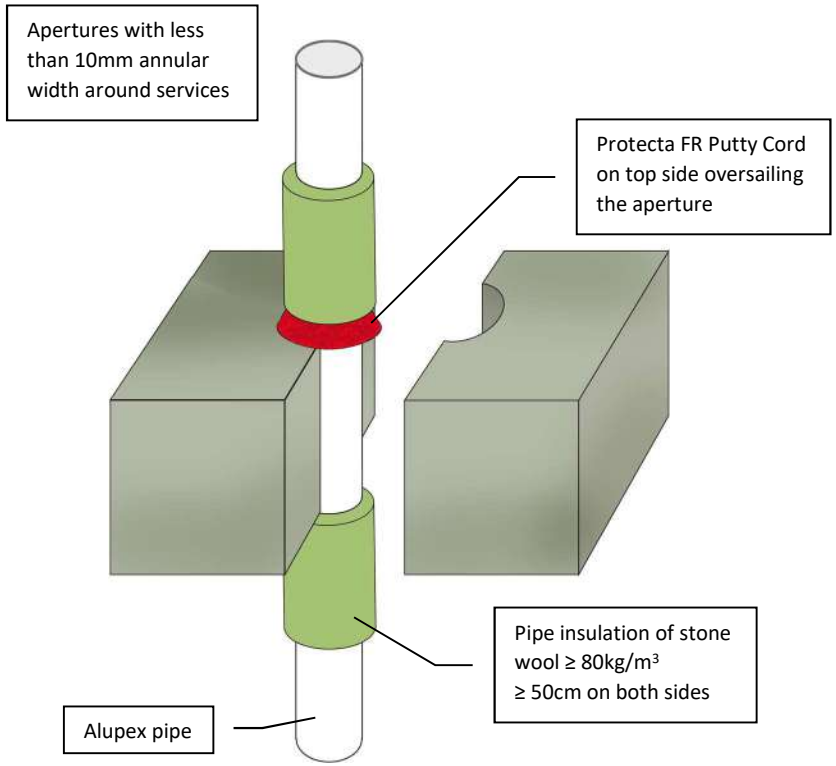
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Installation Instructions

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ETA 22/0032

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with ≥ 20mm thick pipe insulation

EI 240 C/C & E 240

Alupex pipe ≤ Ø75mm with ≥ 30mm thick pipe insulation

EI 240 C/C & E 240

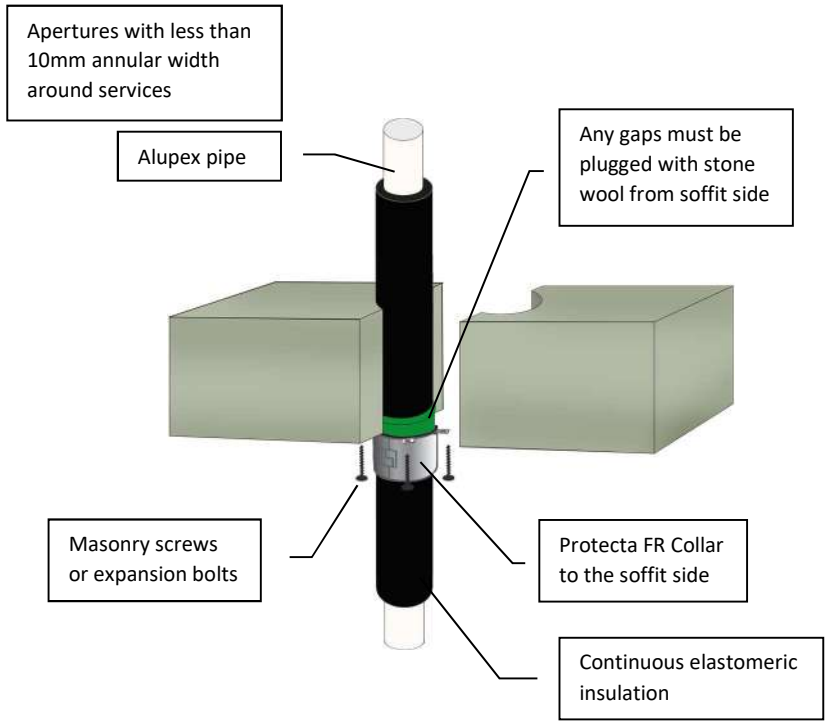
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 120 C/C & E 120

Alupex pipe ≤ Ø75mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-200mm at 60mm height — EI 90 C/C & E 120

Sound reduction (seal only) — Rw 58dB

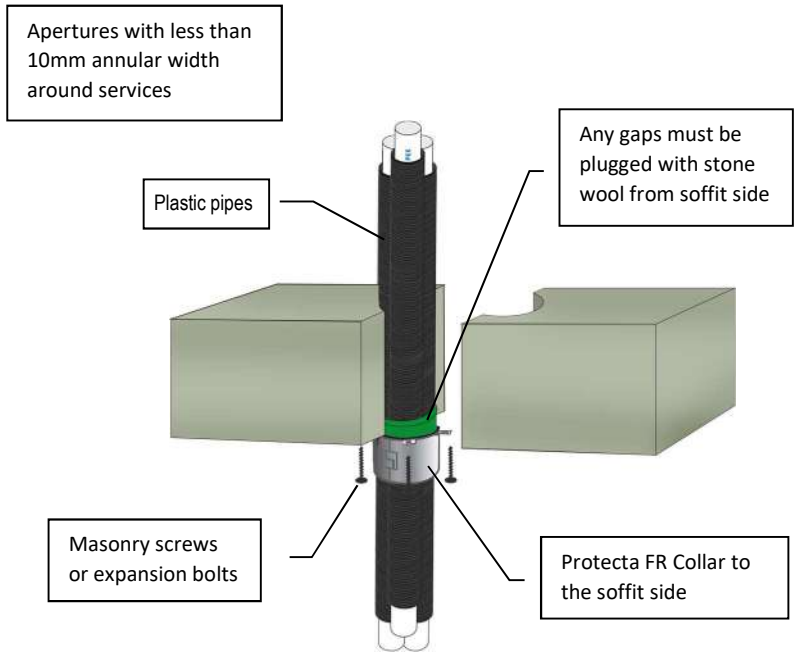
Protecta®

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipes and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipes and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of PEX plastic pipe-in-pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PEX pipes ≤ Ø25mm, single or in a bundle ≤ Ø50mm, with collars at ≥ 50mm height
EI 90 C/C & E 90

PEX pipes ≤ Ø 54mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 C/C & E 60

Sound reduction (seal only)
Rw 58dB

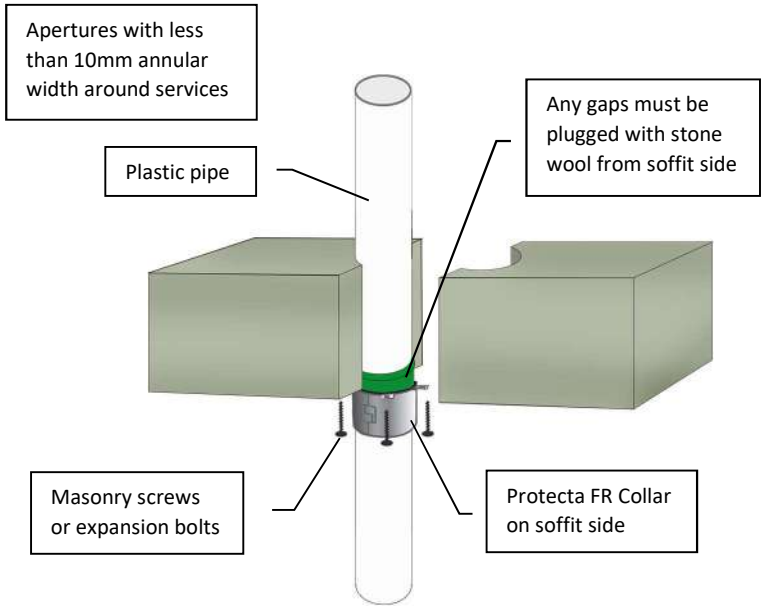
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Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe and the separating element are sealed with 20mm deep stonewool to plug 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 floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Min. Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø90mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 90 U/C (E 120), EI 60 C/U
≤ Ø160mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 60 C/C (E 120)
≤ Ø315mm PVC-U & PVC-C	75mm	EI 60 C/C
Ø400x15.3mm PVC-U & PVC-C	100mm	EI 60 C/C
≤ Ø55mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PE, ABS & SAN+PVC	60mm	EI 120 C/C (E 240)
≤ Ø250mm PE, ABS & SAN+PVC	75mm	EI 240 C/C
≤ Ø315mm PE, ABS & SAN+PVC	75mm	EI 90 C/C
Ø400x36.3mm PE, ABS & SAN+PVC	100mm	EI 90 C/C

Services	Min. Collar Height	Classification
≤ Ø50mm PP	30mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø50mm PP	50mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø110mm PP	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø140mm PP	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø160mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PP	60mm	EI 120 C/C
≤ Ø250mm PP	75mm	EI 60 C/C
Ø315x28.6mm PP	75mm	EI 60 C/C
≤ Ø400mm PP	100mm	EI 30 C/C

UKTA 22/0026 ETA 22/0752

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

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

Sound reduction (seal only)

58dB

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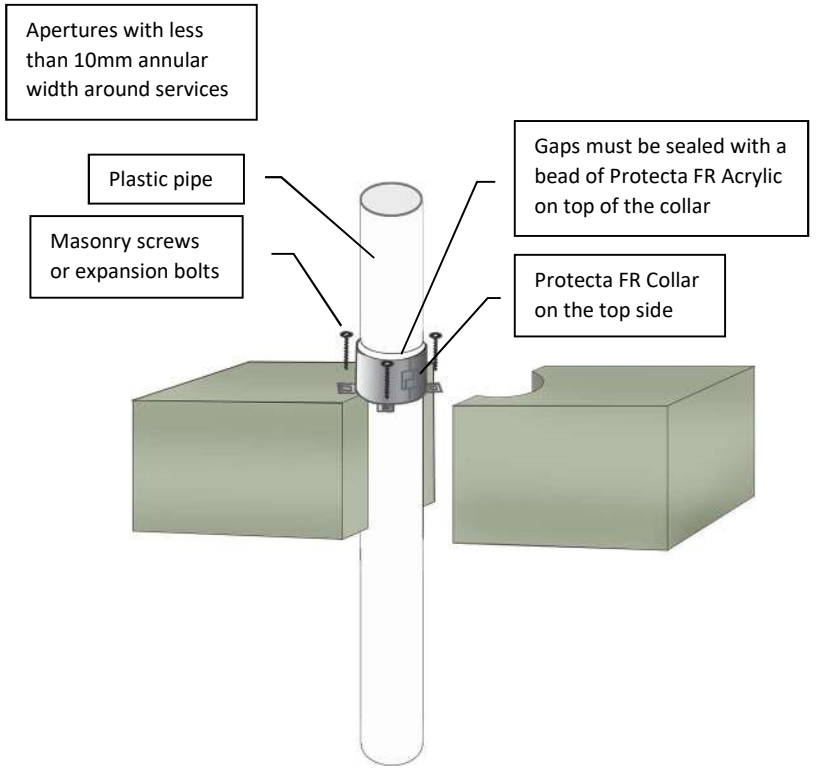
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Place a suitable collar around the pipe and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
2. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
3. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.
4. After fitting the collar ensure that the gaps between the pipe and the collar are sealed with a bead of Protecta® FR Acrylic to cover the opening.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	50mm	EI 240 C/C, EI 240 U/C
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C
≤ Ø160mm PVC-U & PVC-C	60mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C (E 240)
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C
≤ Ø50mm PP	50mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø110mm PP	50mm	EI 90 C/C, EI 90 U/C (E 120)
Ø160x14.6mm PP	60mm	EI 60 C/C, EI 60 U/C (E 240)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

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

Sound reduction (seal only)

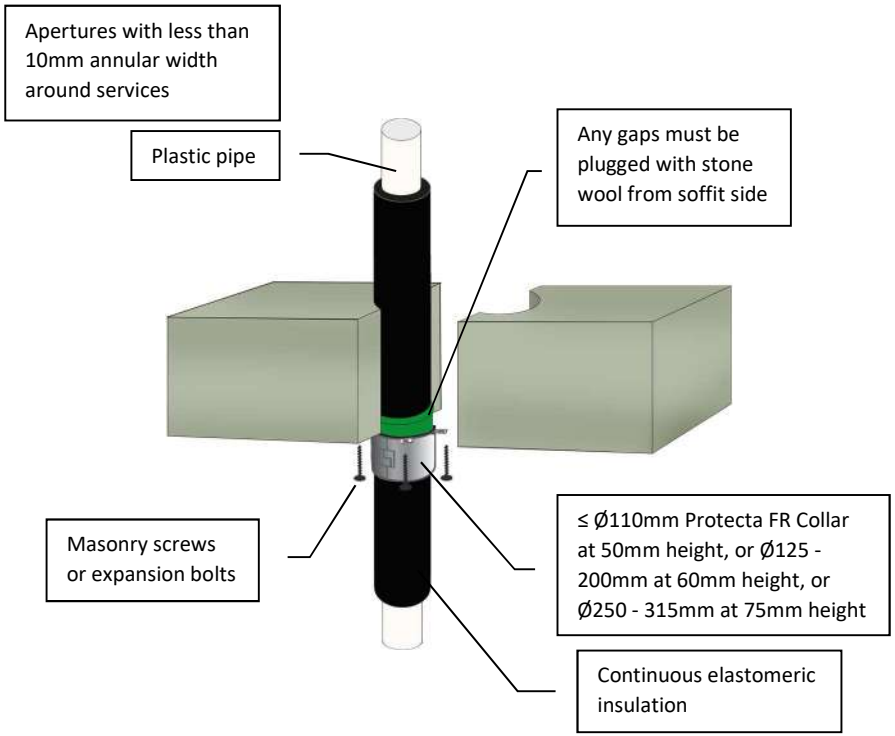
58dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe insulation and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of insulated plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9mm thick pipe insulation
EI 180 C/C & E 180

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 10 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 9.1mm and 9 – 25mm thick pipe insulation
EI 120 C/C & E 180

PP pipe ≤ Ø160mm with wall thickness 1.8 – 9.1mm and 26 – 50mm thick pipe insulation
EI 60 C/C & E 60

Sound reduction (seal only) Rw 58dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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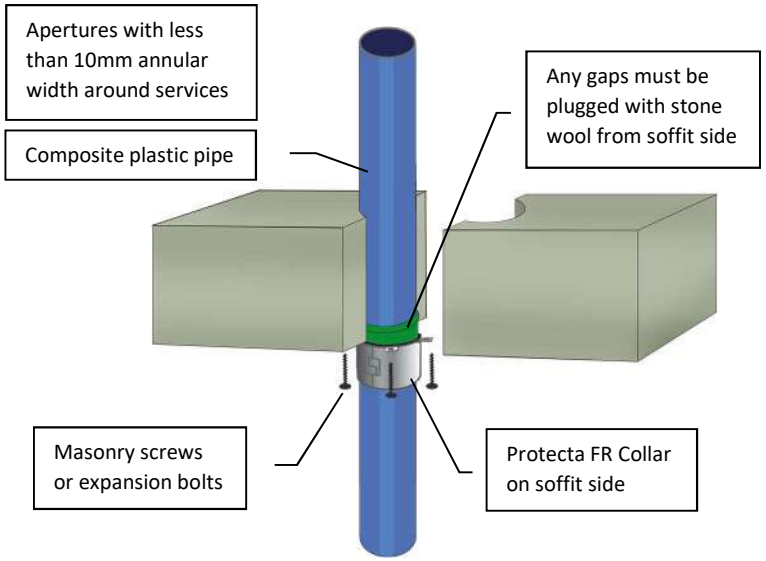
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe and the separating element are sealed with 20mm deep stonewool to plug 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 floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 240 C/C (E 240)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 240 C/C (E 240)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 180 U/U (E 180)
≤ Ø110mm BluePower	50mm	EI 180 C/U (E 180)
Ø125mm BluePower	60mm	EI 180 C/U (E 180)
Ø160mm BluePower	60mm	EI 240 C/U (E 240)
≤ Ø50mm Geberit Silent-PP	50mm	EI 240 U/U (E 240)
≤ Ø110mm Geberit Silent-PP	50mm	EI 180 C/U (E 180)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 240 U/U (E 240)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 240 C/U (E 240)
Ø125mm Polo-Kal NG pipes	60mm	EI 240 U/C (E 240)
Ø160mm Polo-Kal NG pipes	60mm	EI 240 U/C (E 240 C/U)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 240 U/U (E 240)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 120 C/U (E 120)
Ø125mm Rehau Raupiano Plus	60mm	EI 180 C/U (E 180)

Services	Minimum Collar Height	Classification
Ø160mm Rehau Raupiano Plus	60mm	EI 240 U/C (E 240 C/U)
Ø 50mm Uponor Decibel	50mm	EI 180 U/U (E 180)
≤ Ø110mm Uponor Decibel	50mm	EI 120 C/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 240 U/U (E 240)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 60)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 60)
≤ Ø200mm Wavin AS+	60mm	EI 240 U/C (E 240)
≤ Ø50mm Wavin SiTech	50mm	EI 240 U/U (E 240)
≤ Ø110mm Wavin SiTech	50mm	EI 180 C/U (E 180)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products Protecta FR Collar Stonewool

Application Fire stopping of composite plastic pipes in rigid floors

Construction Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

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

Sound reduction (seal only)

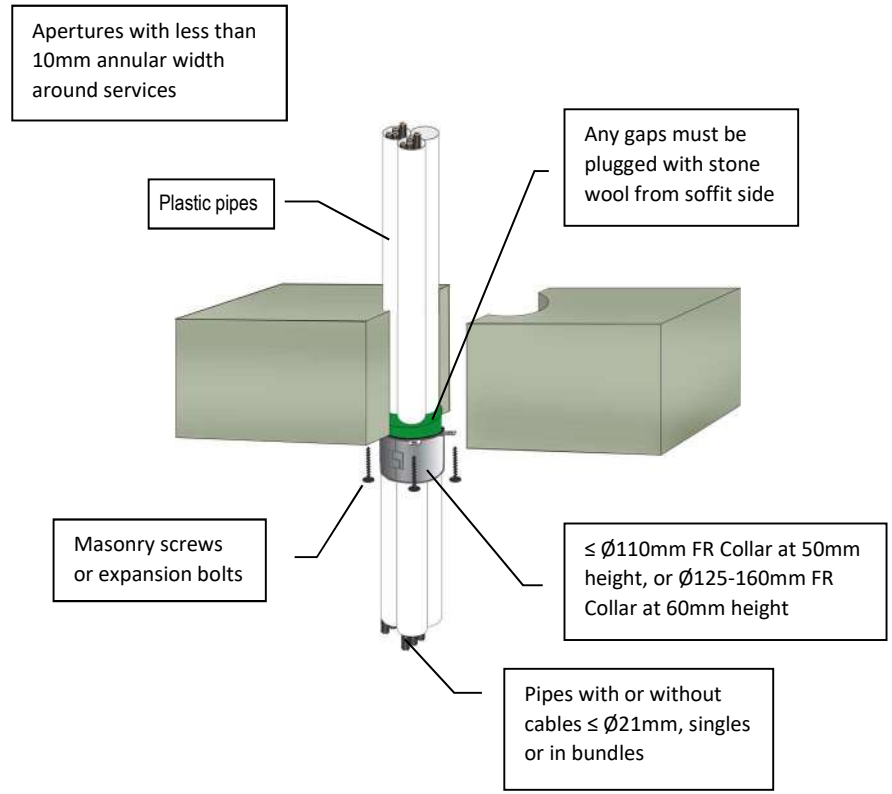
58dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Scale:	Drawn by:
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Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipes and the separating element are sealed with 20mm deep stonewool to plug the opening.
2. Place a suitable collar around the pipes and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of plastic pipes and cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

PVC pipes ≤ Ø32mm, single, or in a bundle ≤ Ø160mm with wall thickness 1.0 – 2.4mm
EI 90 C/U & E 90

PE & ABS pipes ≤ Ø32mm, single, or in a bundle ≤ Ø160mm with wall thickness 2.0 – 3.0mm
EI 90 C/U & E 90

PP pipes ≤ Ø32mm, single, or in a bundle ≤ Ø160mm with wall thickness 1.8 – 4.4mm
EI 90 C/U & E 90

Sound reduction (seal only) Rw 58dB

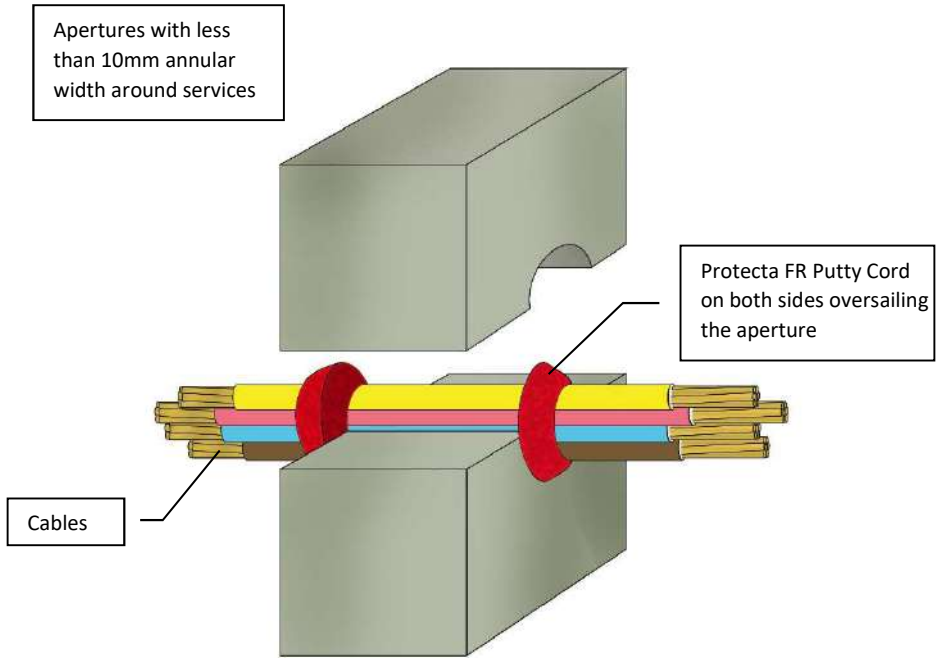
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of cables in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Cables ≤ Ø 21mm, single or in a bundle ≤ Ø 50mm

EI 120 & E 120

Cables ≤ Ø 80mm, single or in a bundle ≤ Ø 50mm

EI 60 & E 60

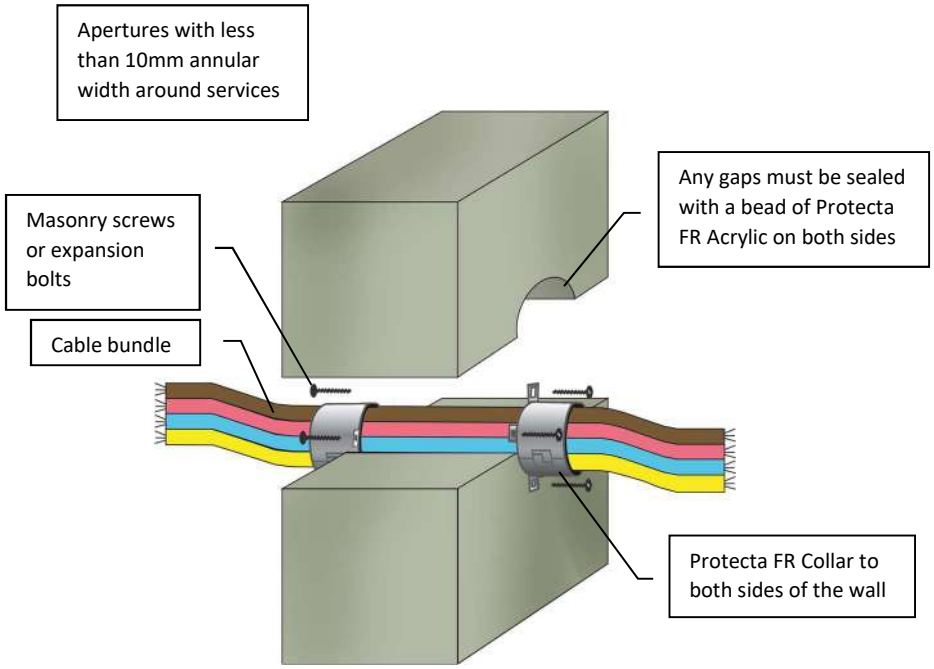
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Sheet size: **A4**	Drawn date & no: 29/5/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the cable bundle and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place a suitable collar around the cable bundle 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of cable bundles in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Cables ≤ Ø 21mm, in a bundle ≤ Ø110mm, with collars ≤ Ø110mm at ≥ 30mm height
EI 60 & E 120

Cables ≤ Ø 80mm, in a bundle ≤ Ø110mm, with collars ≤ Ø110mm at ≥ 50mm height
EI 60 & E 120

Cables ≤ Ø 80mm, in a bundle ≤ Ø160mm, with collars ≤ Ø160mm at ≥ 60mm height
EI 60 & E 120

Sound reduction (seal only) 58dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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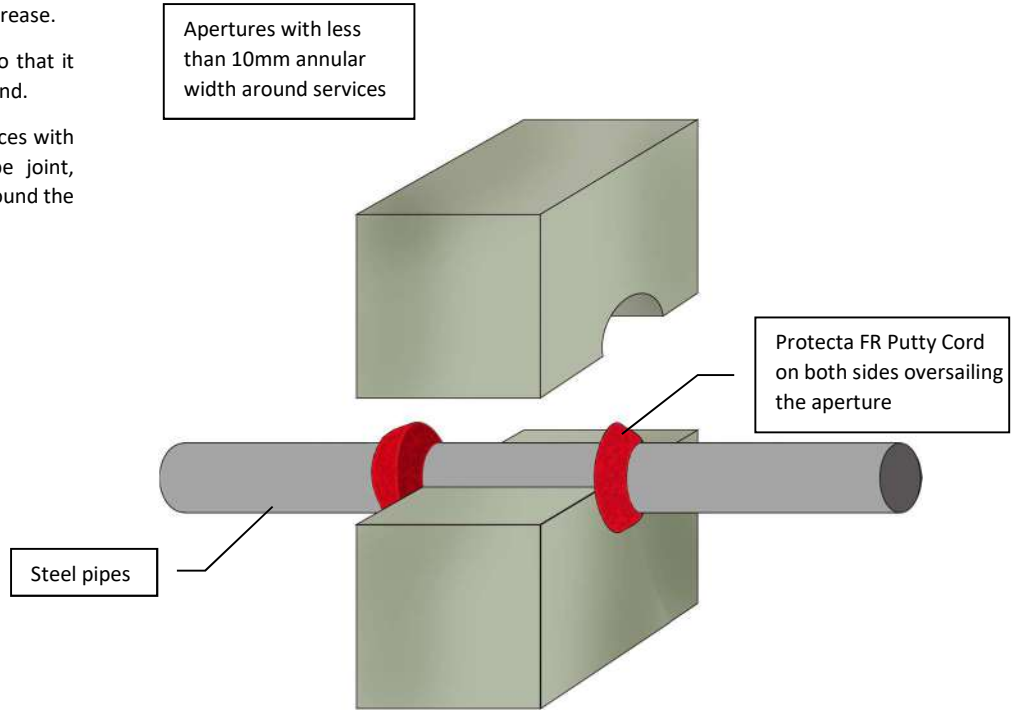
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 27/7/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø 22mm — EI 120 C/U & E 120

Steel pipe ≤ Ø 30mm — EI 45 C/U & E 120

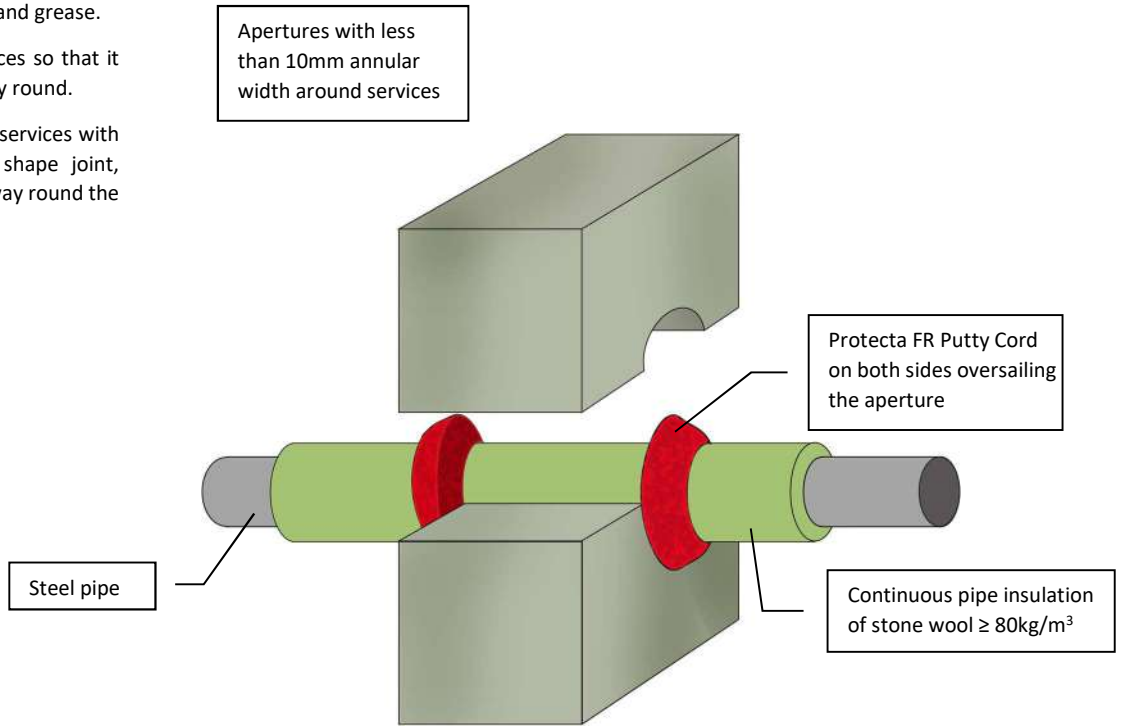
Steel pipe ≤ Ø 324mm — EI 20 C/U & E 90

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with 20mm thick pipe insulation
EI 120 C/U & E 120

Steel pipe ≤ Ø54mm with 20mm thick pipe insulation
EI 120 C/C & E 240

Steel pipe ≤ Ø324mm with 30-80mm thick pipe insulation
EI 180 C/U & E 240

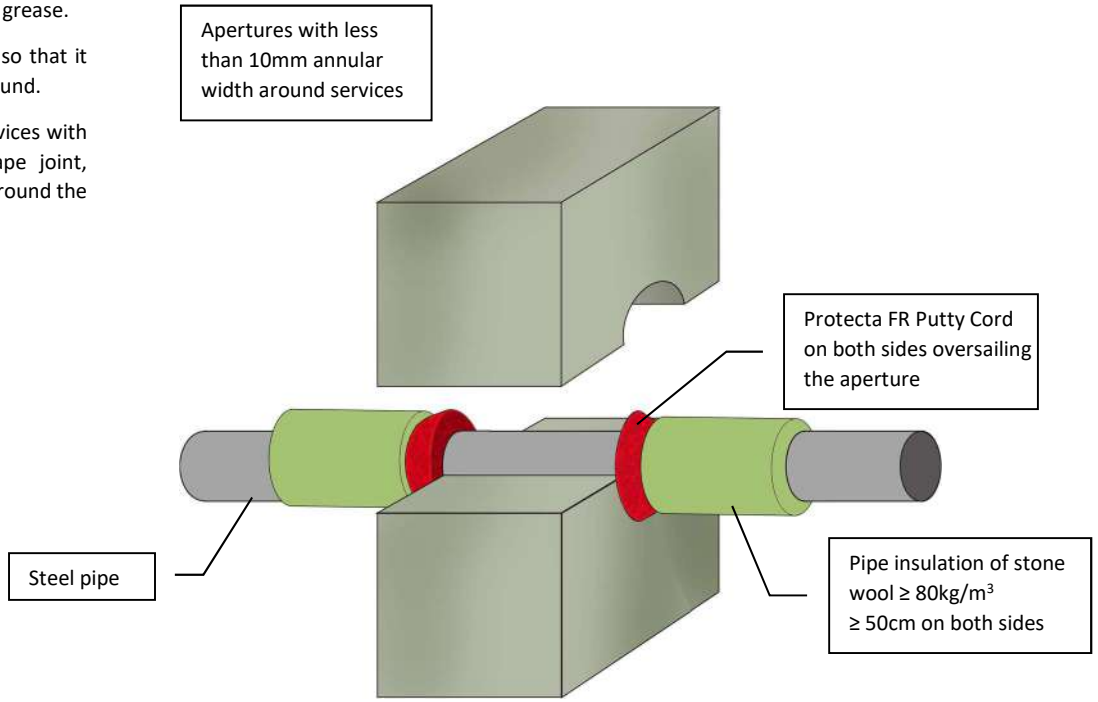
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ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation

EI 120 C/U & E 120

Steel pipe ≤ Ø324mm with ≥ 30mm thick pipe insulation

EI 120 C/U & E 120

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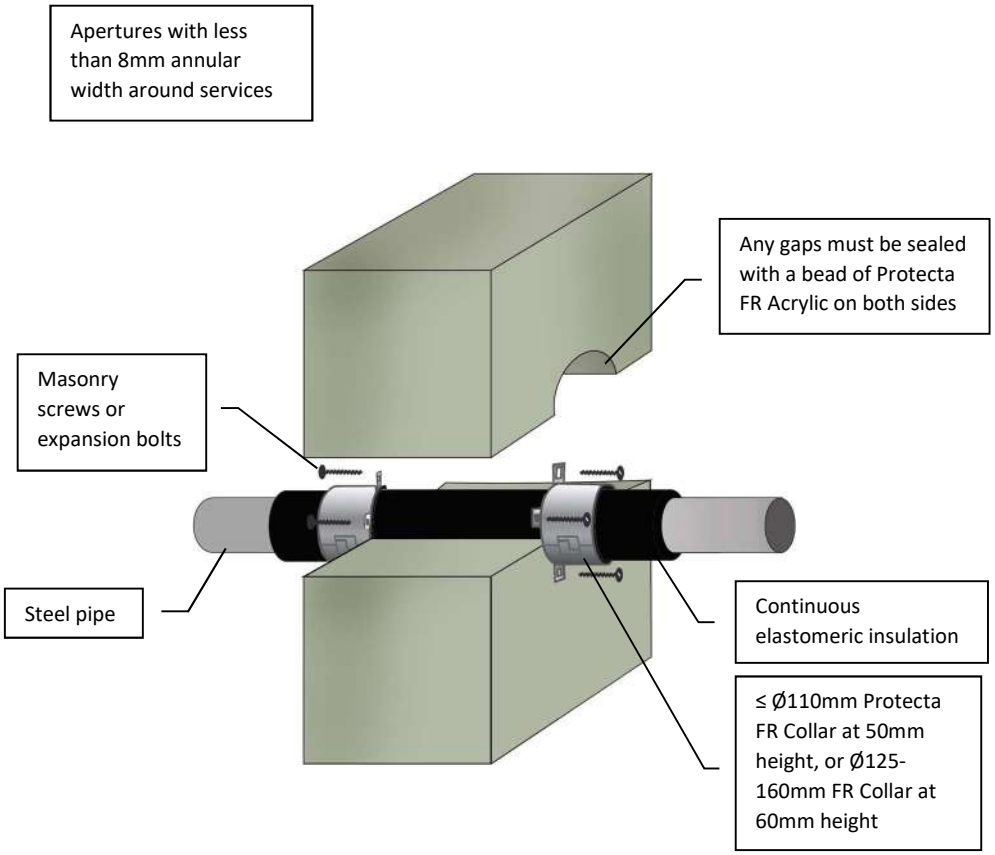
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

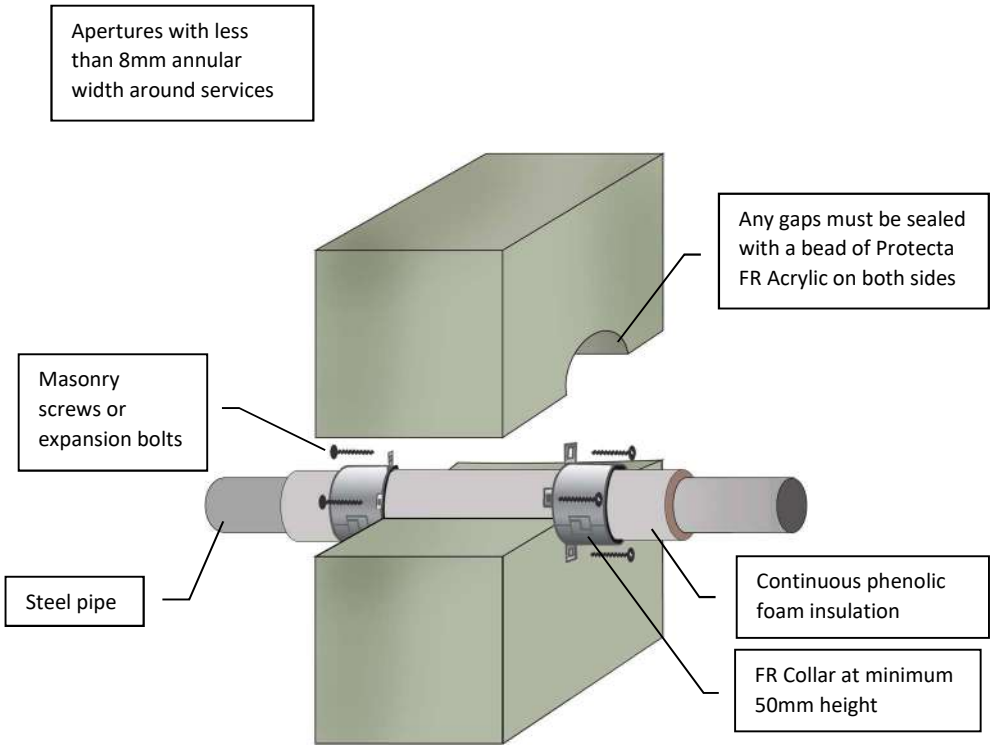
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3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the wall and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

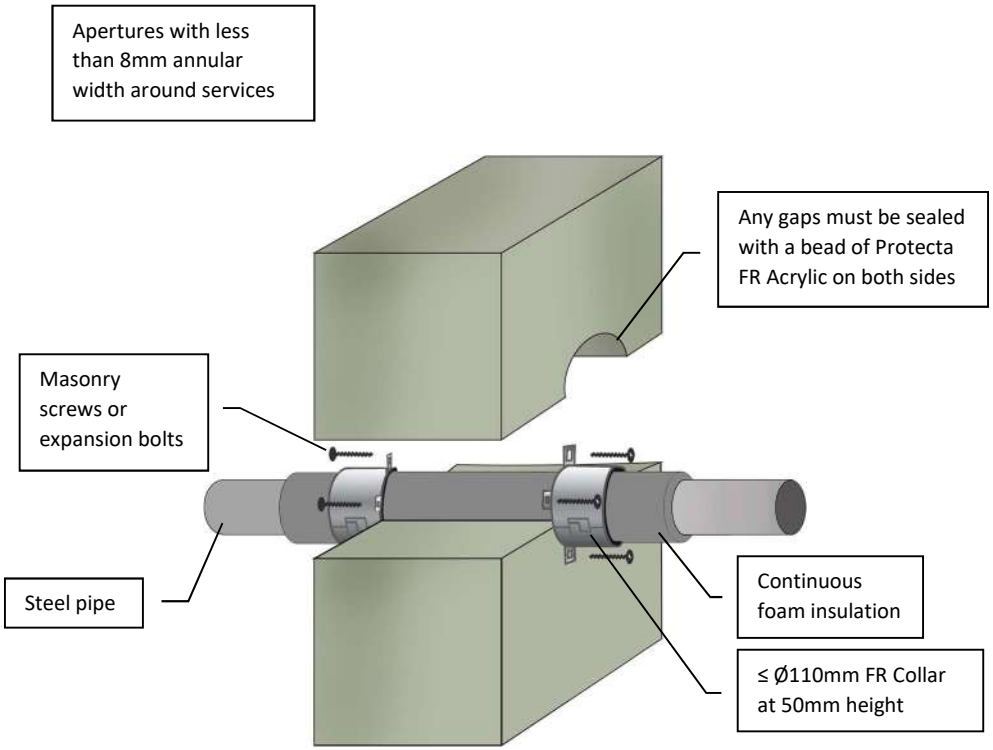
Steel pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Steel pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Steel pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Steel pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Steel pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

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Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with 20mm thick PE insulation — EI 90 C/C & E 120

Steel pipe ≤ Ø54mm with 40mm thick PU insulation — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58 dB

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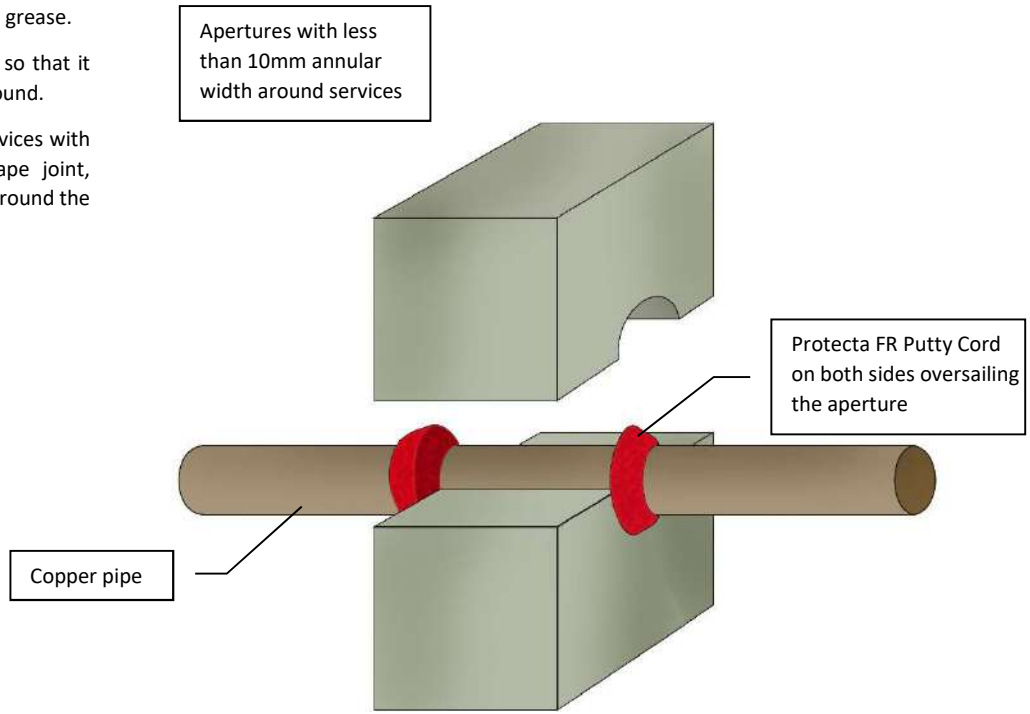
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Installation Instructions

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2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø 12mm
EI 60 C/C & E 120

Copper pipe ≤ Ø 54mm
EI 15 C/C & E 90

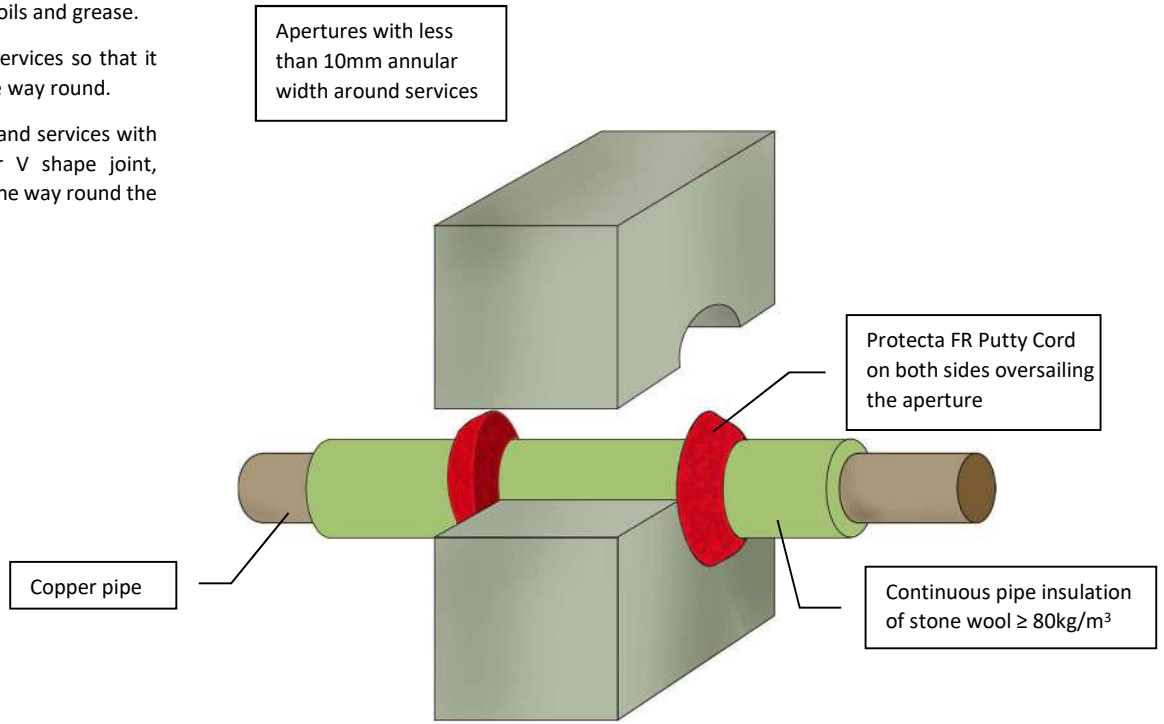
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

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3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20mm thick pipe insulation

EI 120 C/C & E 240

Copper pipe ≤ Ø54mm with 30-80mm thick pipe insulation

EI 60 C/C & E 90

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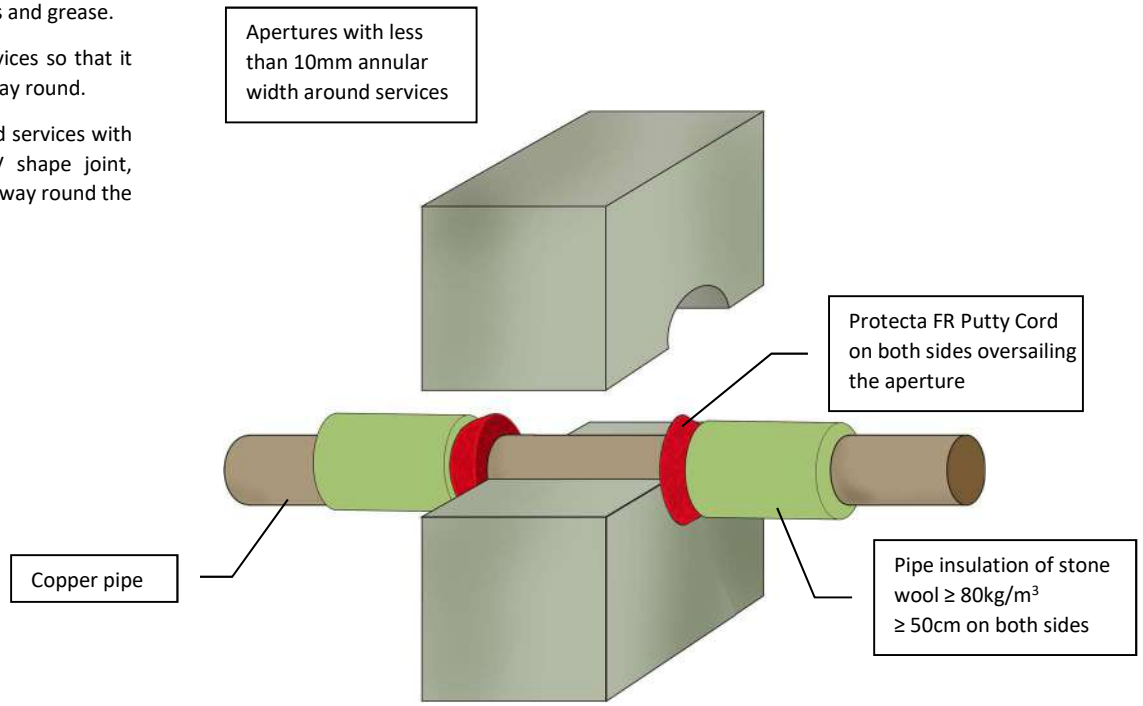
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ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 60 C/C & E 90 C/C

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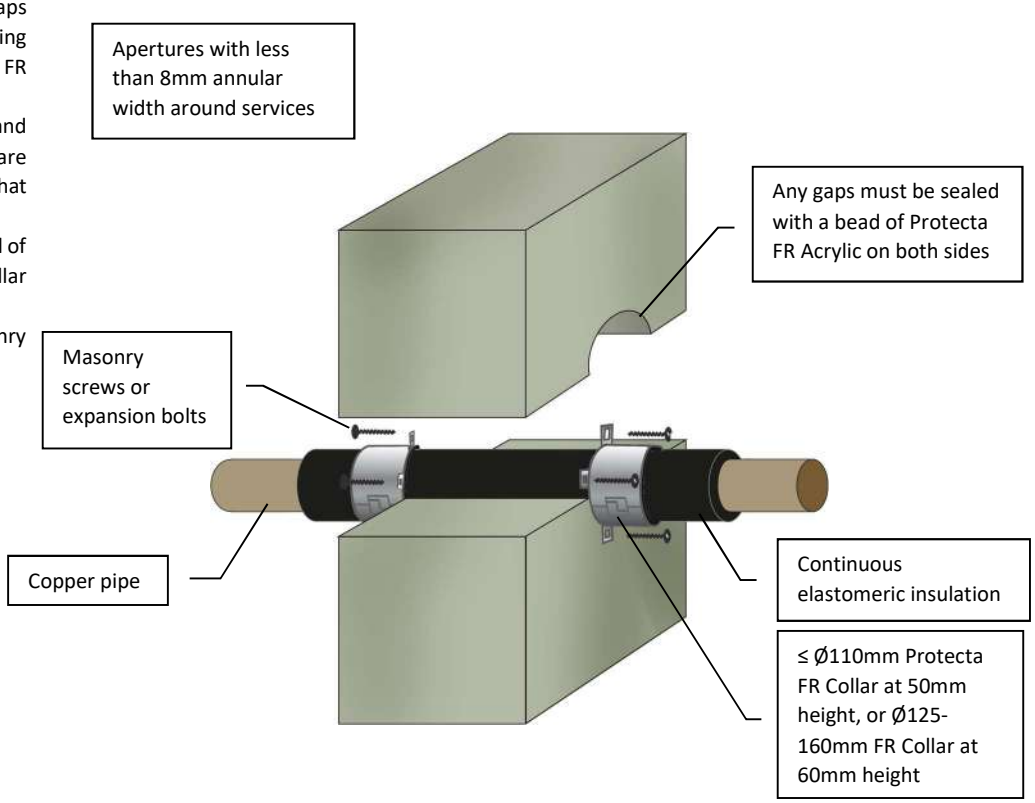
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2. Place suitable collars around the insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the wall, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the wall and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

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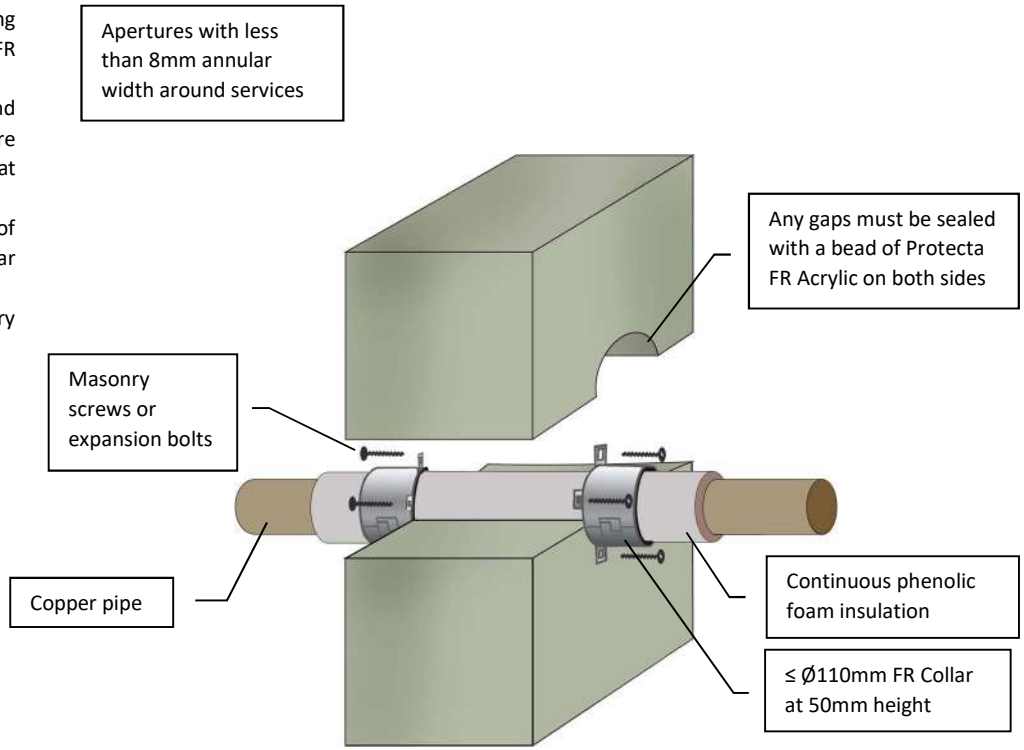
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Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
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Fire & Sound classification

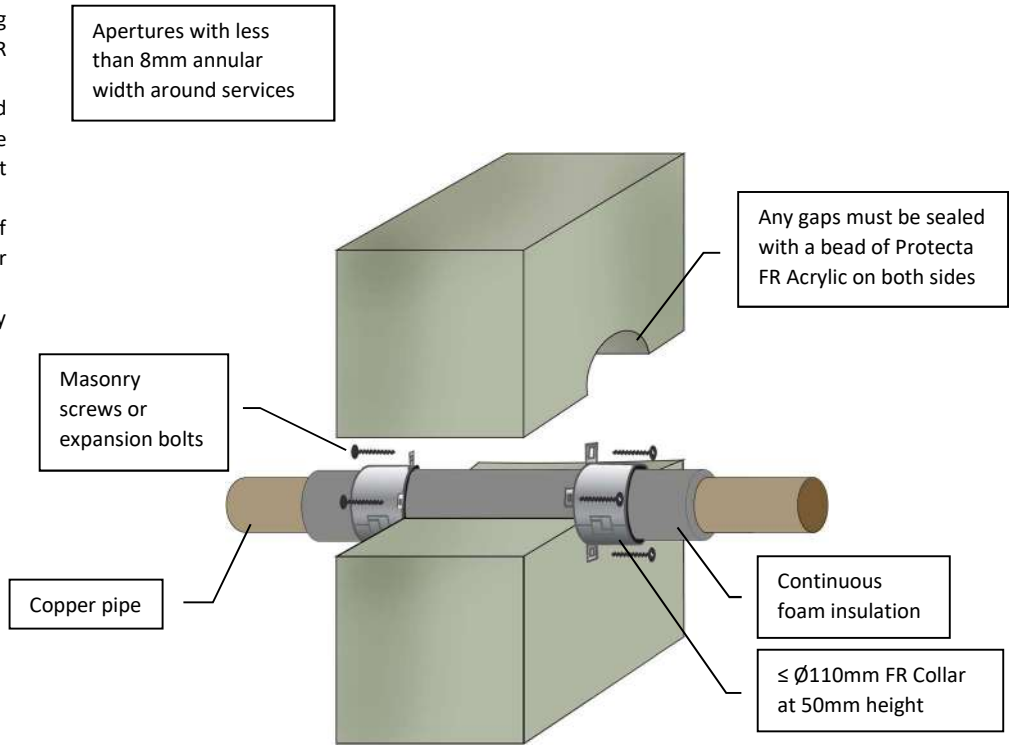
Copper pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20mm thick PE insulation — EI 90 C/C & E 120

Copper pipe ≤ Ø54mm with 40mm thick PU insulation — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58 dB

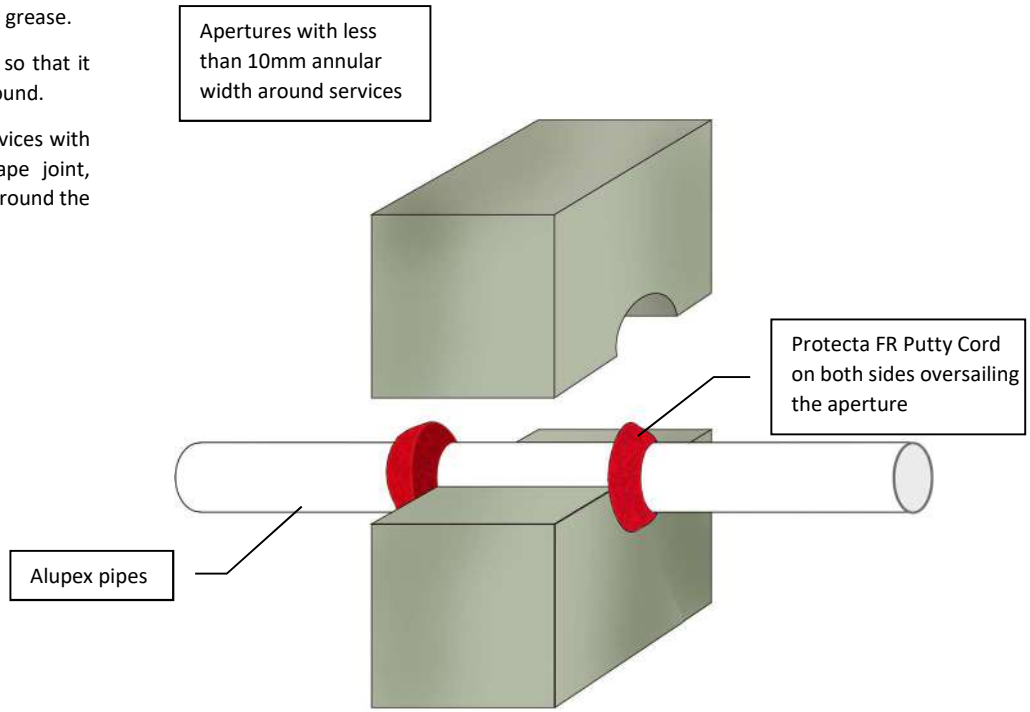
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ETA 22/0032

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø 16mm	EI 120 C/C & E 120
Alupex pipe ≤ Ø 20mm	EI 90 C/C & E 120
Alupex pipe ≤ Ø 75mm	EI 90 C/C & E 90

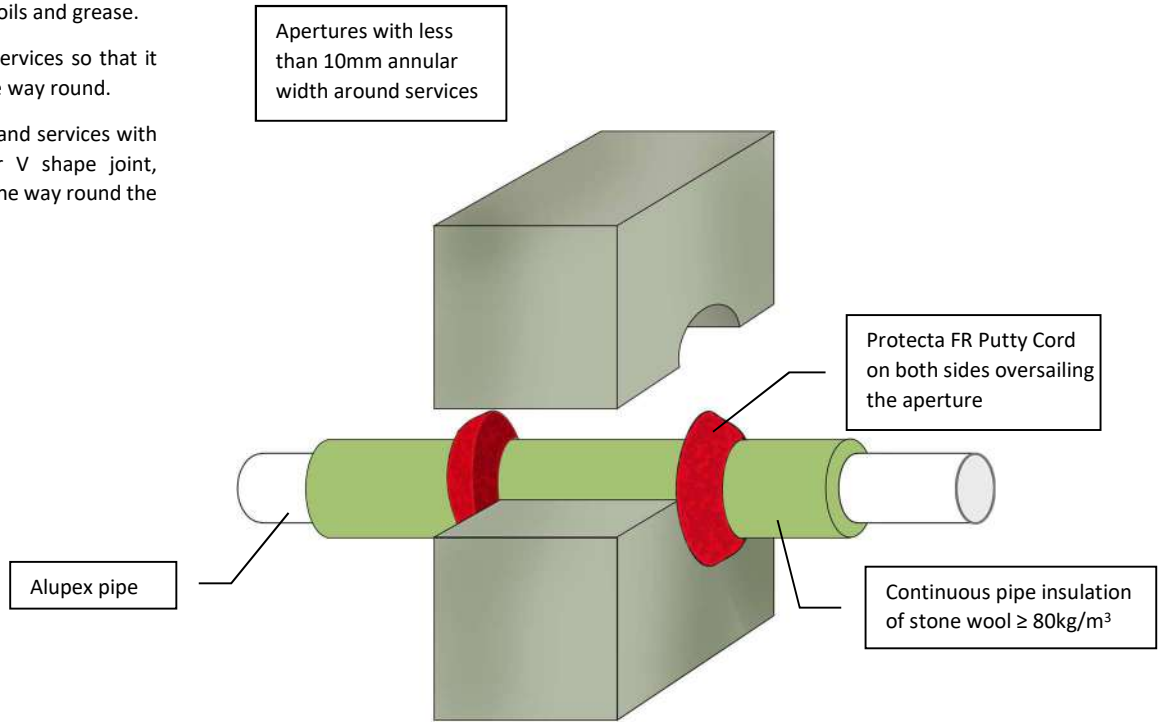
Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 20mm thick pipe insulation
EI 240 C/C & E 240

Alupex pipe ≤ Ø75mm with 30mm thick pipe insulation
EI 240 C/C & E 240

Alupex pipe ≤ Ø75mm with 40-80mm thick pipe insulation
EI 90 C/C & E 90

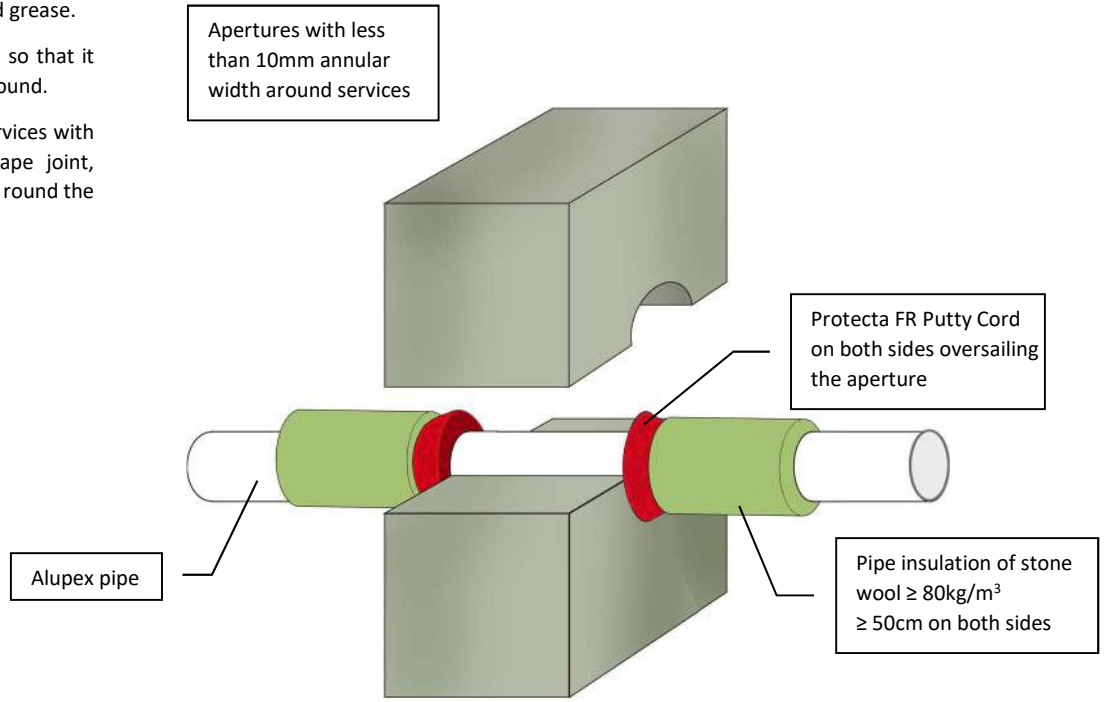
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with ≥ 20mm thick pipe insulation

EI 90 C/C & E 90

Alupex pipe ≤ Ø75mm with ≥ 30mm thick pipe insulation

EI 90 C/C & E 90

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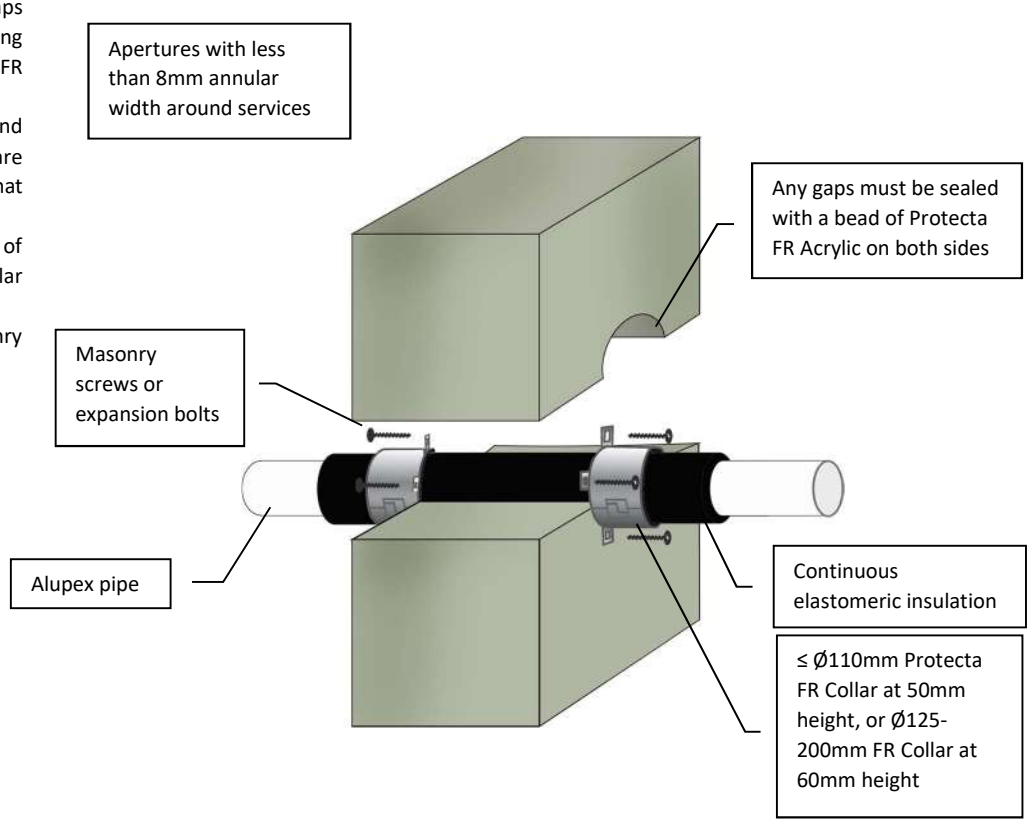
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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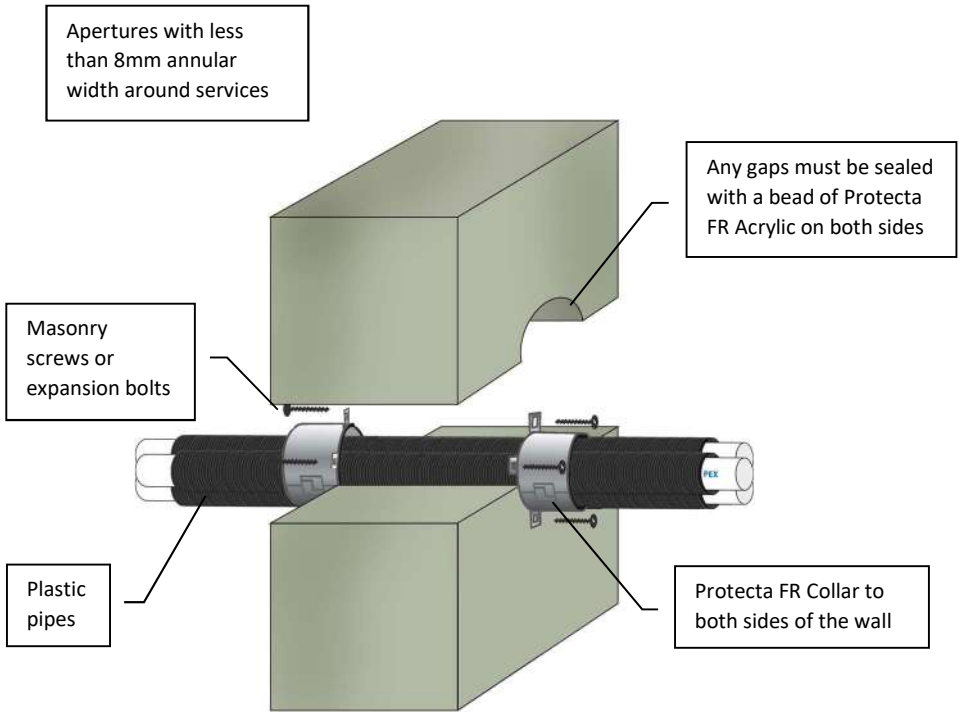
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipes and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PEX pipes ≤ Ø 25mm, single or in a bundle ≤ Ø55mm, with collars at ≥ 30mm height
EI 90 & E 120

PEX pipes ≤ Ø 42mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 & E 60

Sound reduction (seal only)
58dB

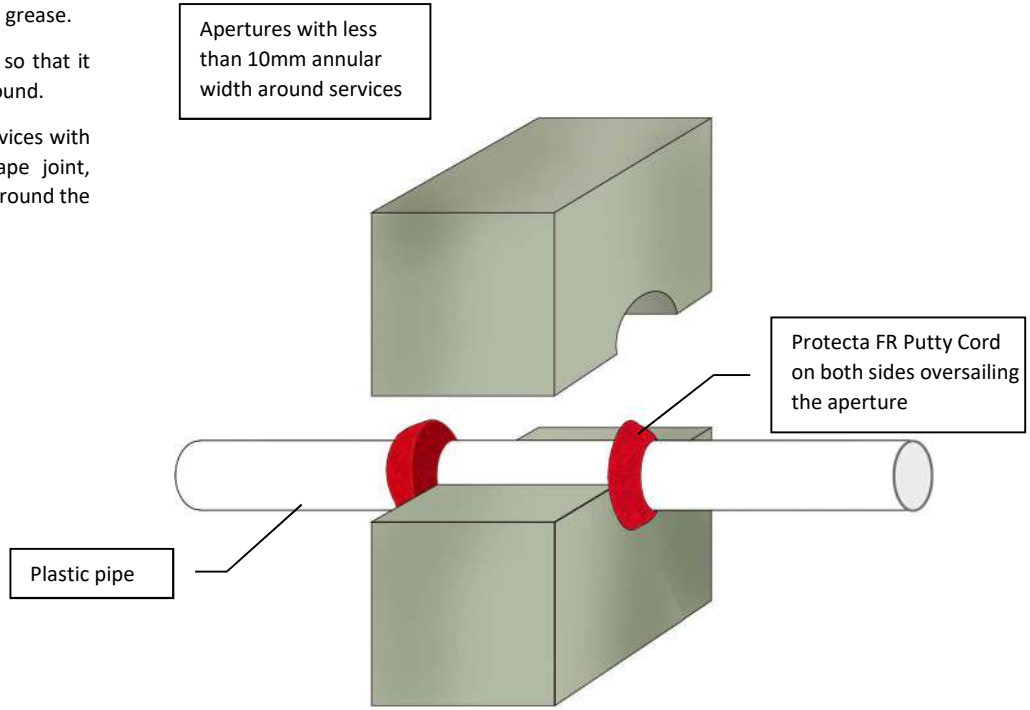
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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC-U or PVC-P pipe ≤ Ø 25mm with wall thickness 1.5mm

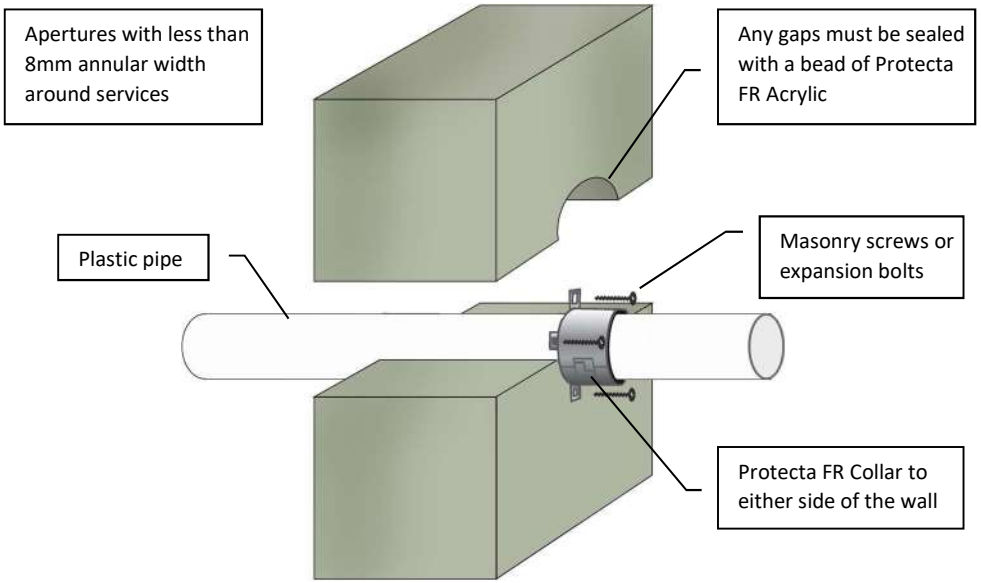
EI 60 U/C & E 60

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 4/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that any gaps between the pipe and the separating element are sealed with a bead of 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C (E 180)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 120 C/C, EI 120 U/C (E 180)
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C
≤ Ø50mm PP	50mm	EI 90 C/C, EI 90 U/C

ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in rigid walls

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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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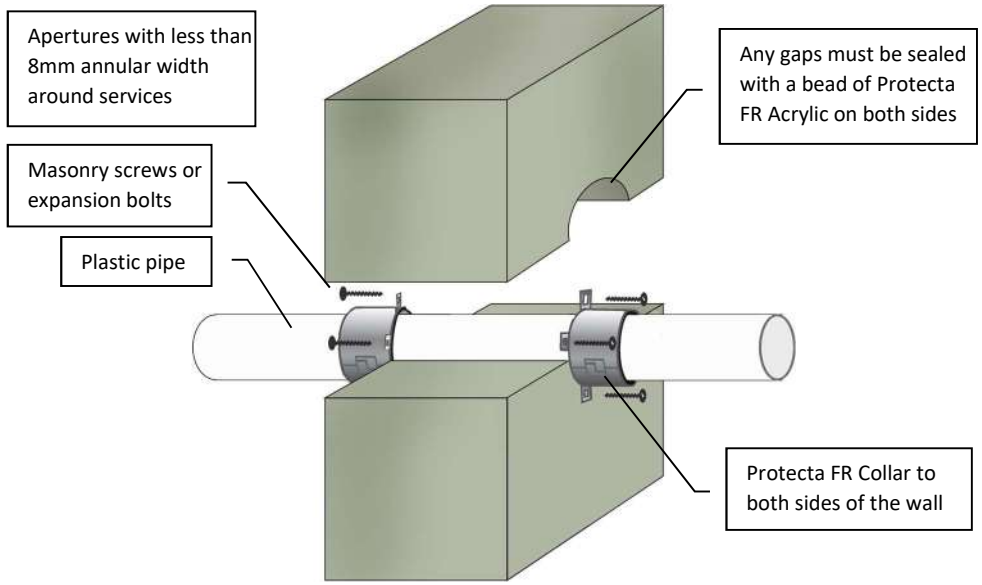
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	30/8/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
≤ Ø140mm PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
Ø315x9.2mm PVC-U & PVC-C	75mm	EI 60 C/C
≤ Ø50mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø140mm PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
Ø160mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
Ø200x18.2mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
Ø250x22.7mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
≤ Ø50mm PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø110mm PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U

ETA 22/0752 UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

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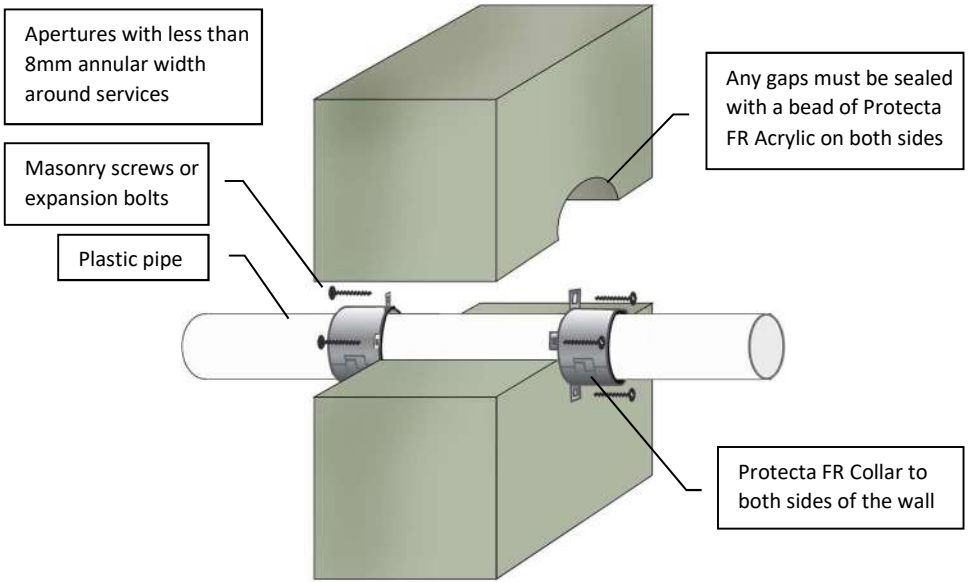
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	30/8/19
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
≤ Ø110mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
≤ Ø160mm PVC-U & PVC-C	60mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
Ø315x9.2mm PVC-U & PVC-C	75mm	EI 120 C/C
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
Ø200x18.2mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
Ø250x22.7mm PE, ABS & SAN+PVC	75mm	EI 90 C/C (E 120)
≤ Ø50mm PP	30mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø110mm PP	50mm	EI 240 C/C, EI 240 U/C, EI 90 C/U, EI 90 U/U (E 240)
≤ Ø140mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U (E 240)
Ø160mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)

ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in rigid walls

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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

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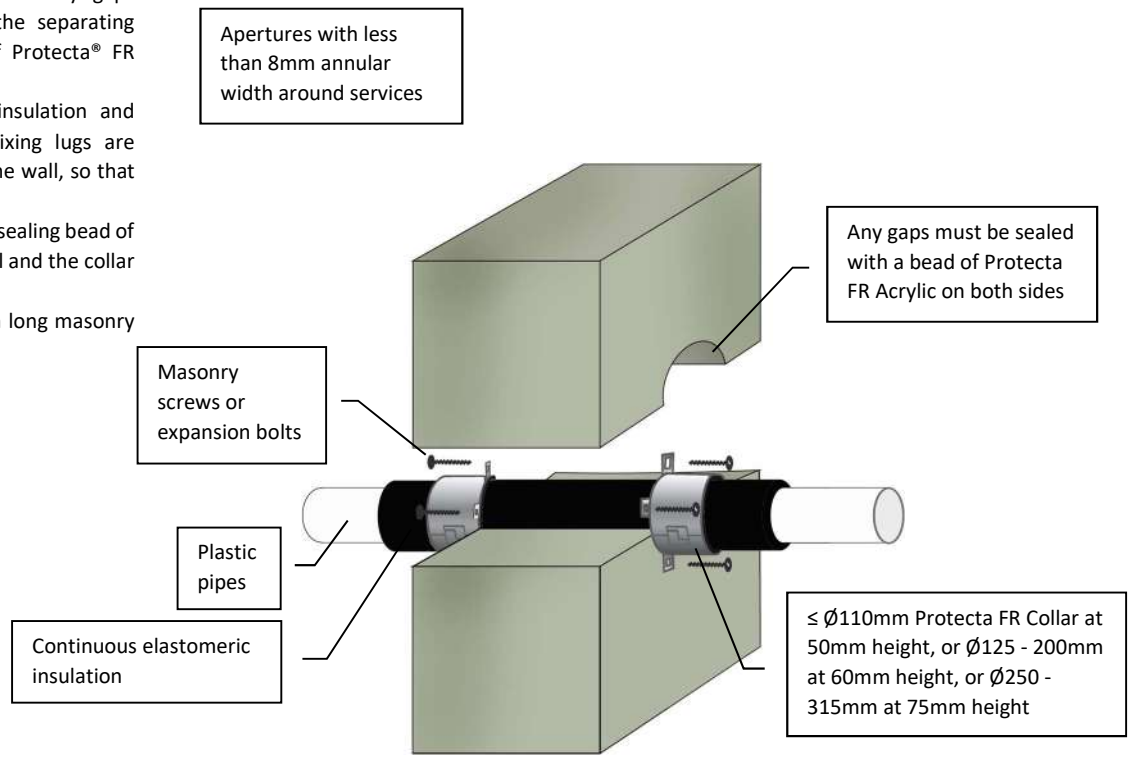
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Signed and approved:

Sheet size:	Drawn date & no:
A4	20/8/19
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752 UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of insulated plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe Ø160mm with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe Ø160mm with wall thickness 4.9 – 14.6mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

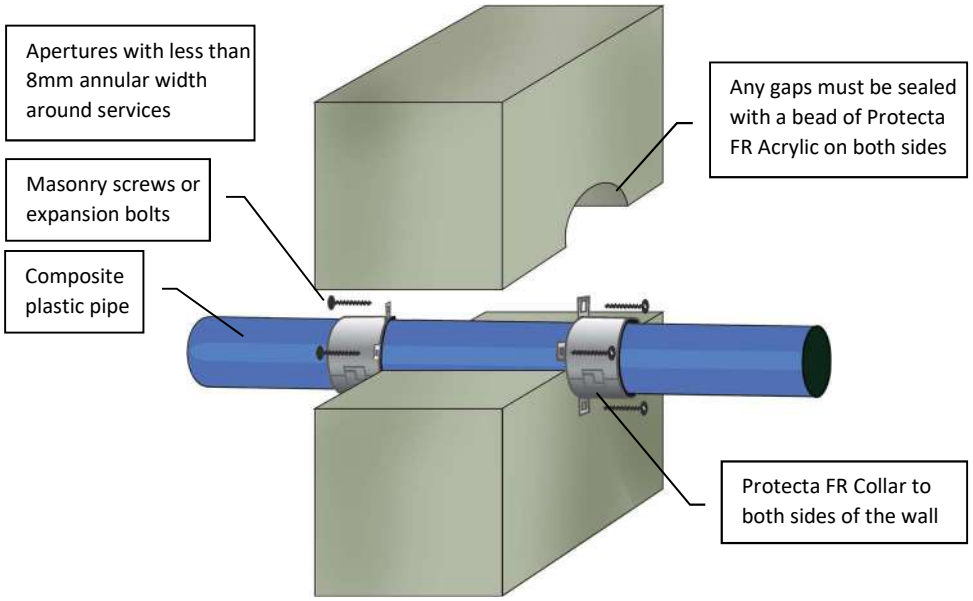
Sound reduction (seal only) Rw 58 dB

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Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 120 C/C (E 120)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 60 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 90 U/U (E 120)
≤ Ø110mm BluePower	50mm	EI 60 C/U (E 120)
Ø125mm BluePower	60mm	EI 60 C/U (E 60)
Ø160mm BluePower	60mm	EI 90 C/U (E 90)
≤ Ø50mm Geberit Silent-PP	50mm	EI 120 U/U (E 120)
≤ Ø110mm Geberit Silent-PP	50mm	EI 60 U/U (E 120)
≤ Ø160mm Geberit Silent-PP	60mm	EI 90 U/C (E 90)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 120 U/U (E 120)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 90 U/U (E 120)
Ø125mm Polo-Kal NG pipes	60mm	EI 120 U/C (E 120 U/U)

Services	Minimum Collar Height	Classification
Ø160mm Polo-Kal NG pipes	60mm	EI 120 U/U (E 120)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 90 U/U (E 120)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 60 U/U (E 120)
≤ Ø160mm Rehau Raupiano Plus	60mm	EI 120 U/U (E 120)
≤ Ø110mm Uponor Decibel pipes	50mm	EI 60 U/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 90 U/U (E 120)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 120)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 120)
≤ Ø200mm Wavin AS+	60mm	EI 90 U/C (E 120)
≤ Ø50mm Wavin SiTech	50mm	EI 120 U/U (E 120)
≤ Ø110mm Wavin SiTech	50mm	EI 60 U/U (E 120)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of composite plastic pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

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

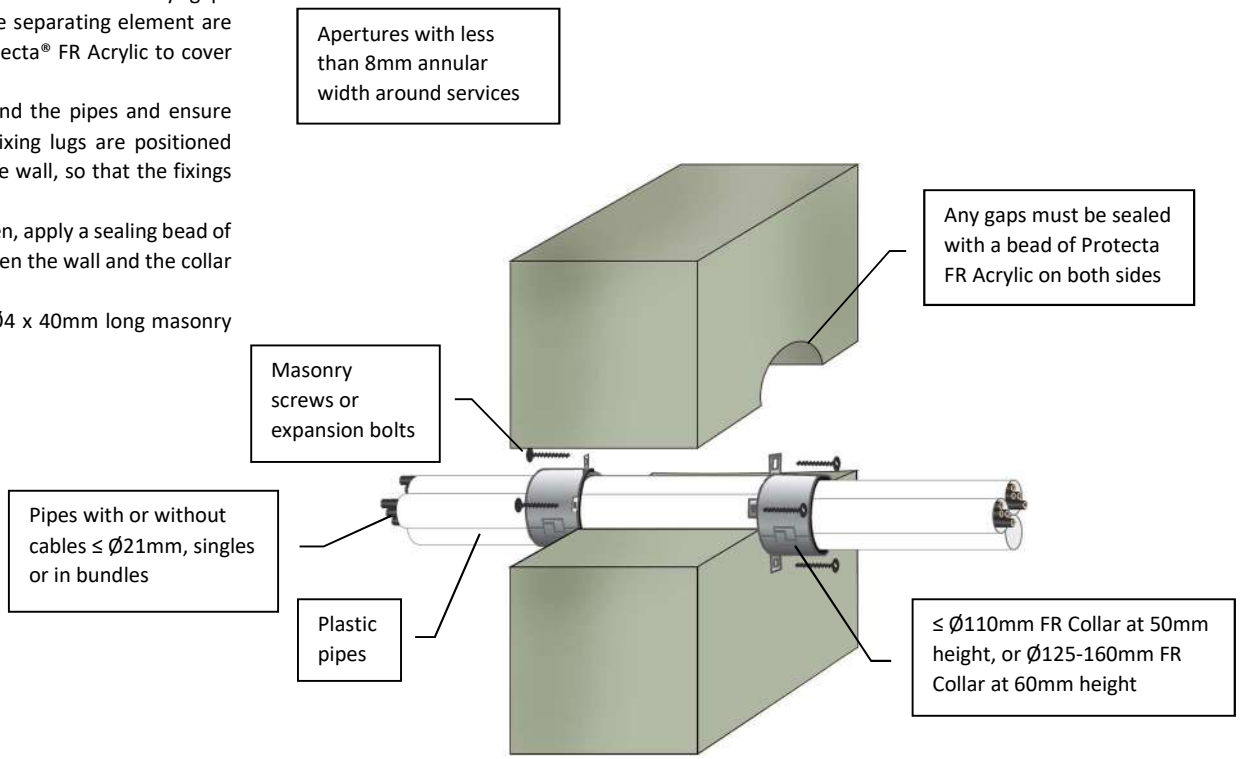
Sound reduction (seal only)
Rw 58dB

Protecta®
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipes and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes and cables in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 58 dB

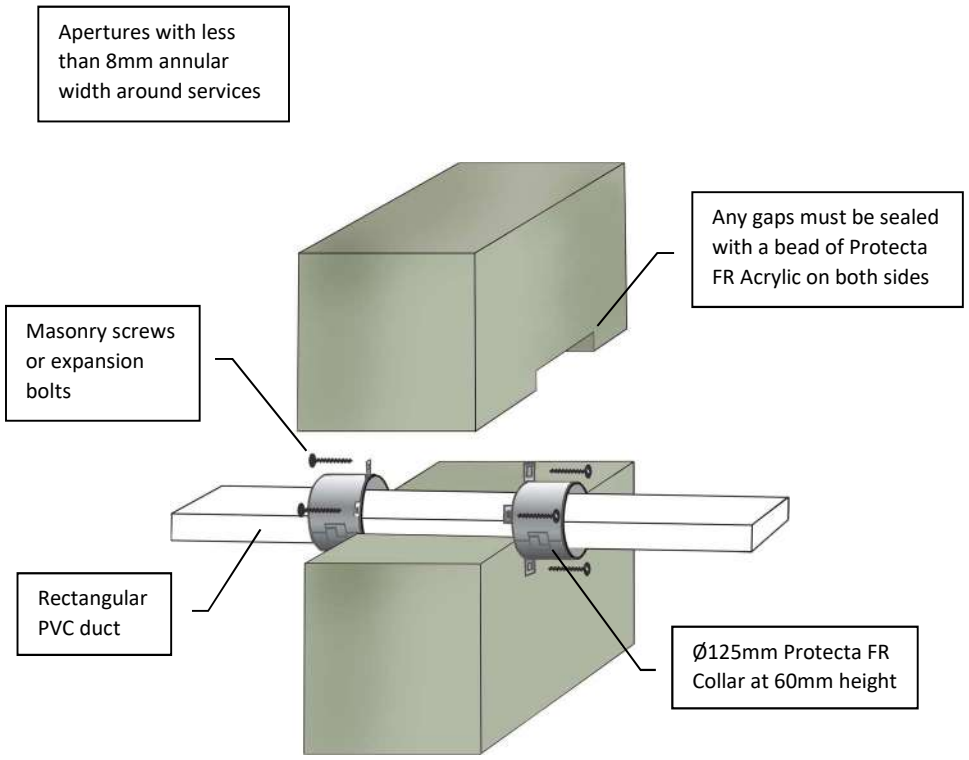
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Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the duct and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place a suitable collar around the duct 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic ducts in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC rectangular duct 54 x 110mm with wall thickness approx. 2mm

EI 60 U/U & E 120

Sound reduction (seal only)

58dB

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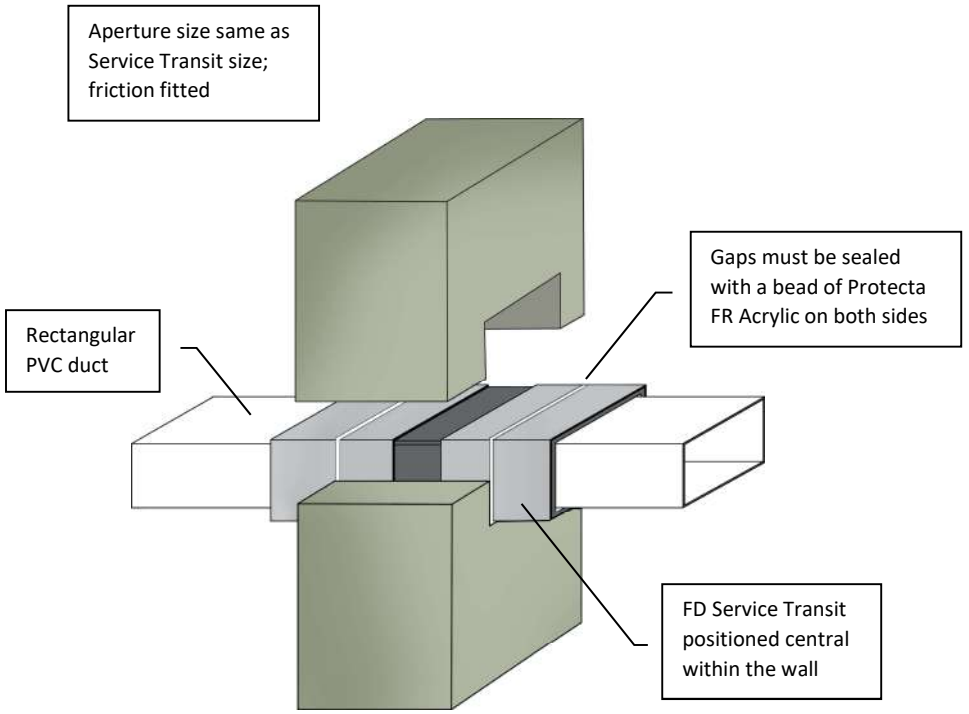
Sheet size:	Drawn date & no:
A4	6/5/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Place a suitable FD Service Transit around the duct and ensure it is positioned central within the wall

2. Make sure there is a tight seal with no gaps around the Service Transit and that it is securely locked in position.

3. Seal the gaps between the Service Transit and the separating element with a bead of Protecta® FR Acrylic.



ETA 22/0734

UKTA 22/0030

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FD Service Transit Protecta FR Acrylic
Application	Fire stopping of plastic ducts in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

FD Service Transit 68 x 126mm with rectangular duct 54 x 110mm, wall thickness approx. 2mm
EI 120 U/U & E 120

FD Service Transit 108 x 240mm with rectangular duct 90 x 220mm, wall thickness approx. 2mm
EI 120 U/U & E 120

Sound reduction (seal only)
64dB

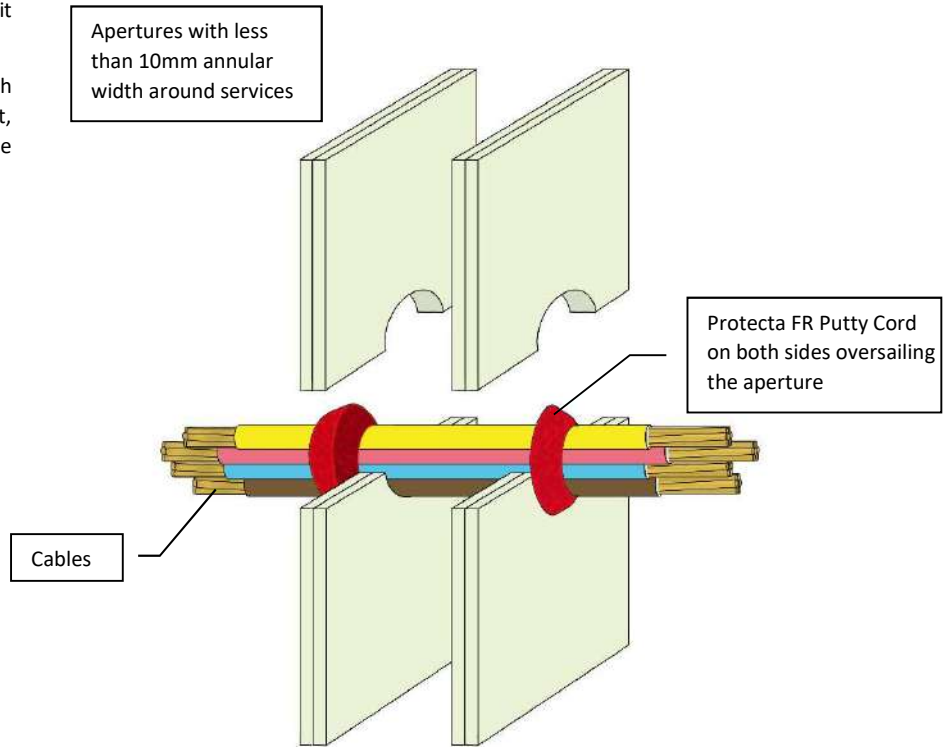
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Sheet size: **A4**	Drawn date & no: 12/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Cables ≤ Ø 21mm, single or in a bundle ≤ Ø 50mm

EI 120 & E 120

Cables ≤ Ø 80mm, single or in a bundle ≤ Ø 50mm

EI 60 & E 60

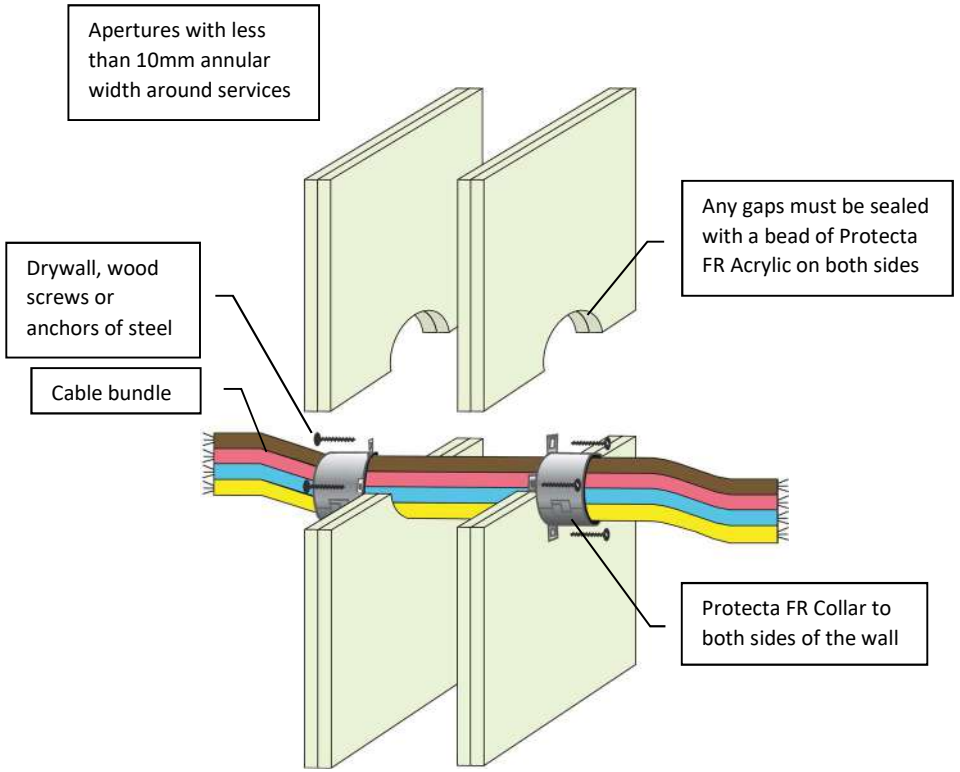
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Sheet size: **A4**	Drawn date & no: 29/5/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the cable bundle and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the cable bundle 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of cable bundles in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Cables ≤ Ø 21mm, in a bundle ≤ Ø110mm, with collars ≤ Ø110mm at ≥ 30mm height
EI 60 & E 120

Cables ≤ Ø 80mm, in a bundle ≤ Ø110mm, with collars ≤ Ø110mm at ≥ 50mm height
EI 60 & E 120

Cables ≤ Ø 80mm, in a bundle ≤ Ø160mm, with collars ≤ Ø160mm at ≥ 60mm height
EI 60 & E 120

Sound reduction (seal only) 58dB

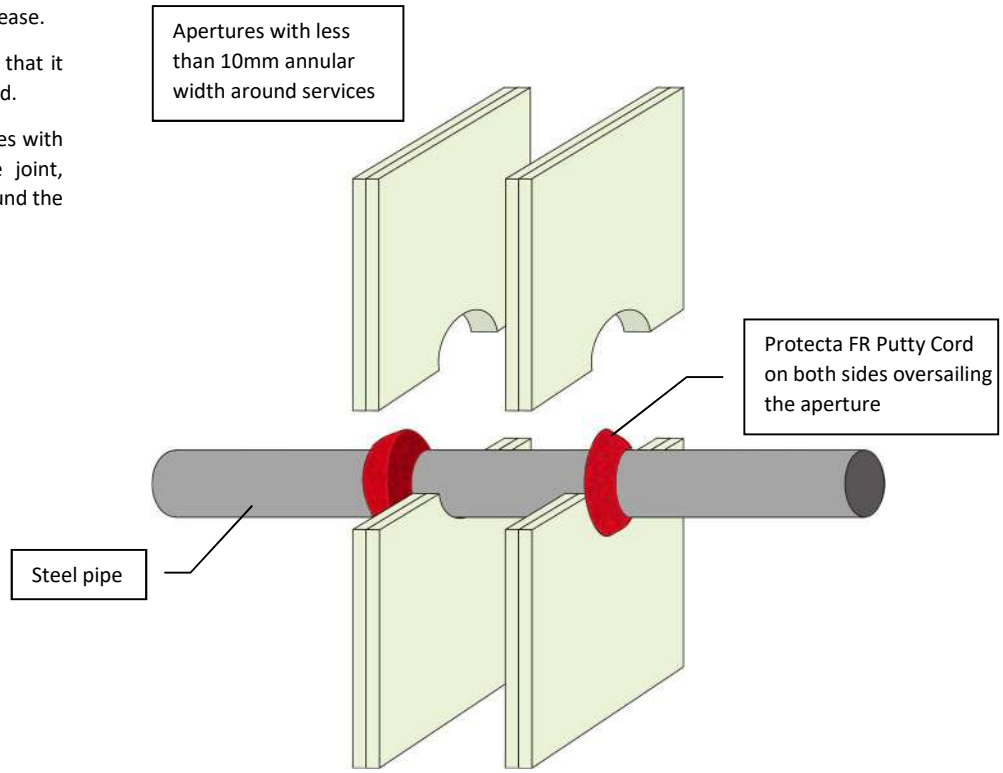
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Sheet size: **A4**	Drawn date & no: 27/7/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø 22mm — EI 120 C/U & E 120

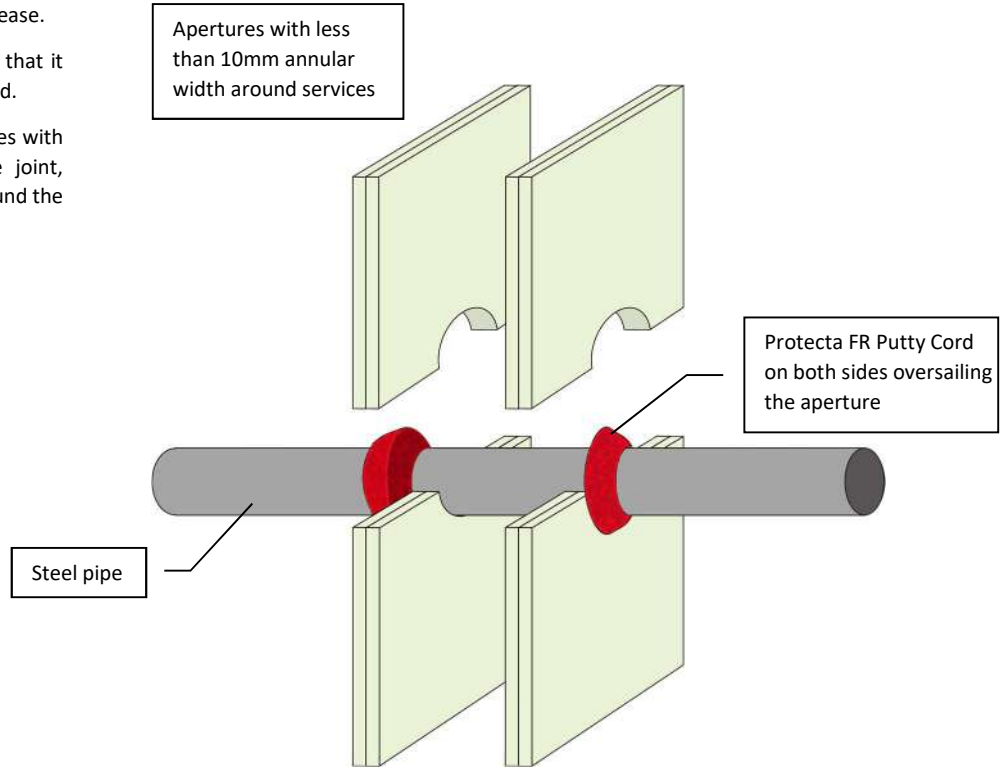
Steel pipe ≤ Ø 30mm — EI 45 C/U & E 120

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø 324mm

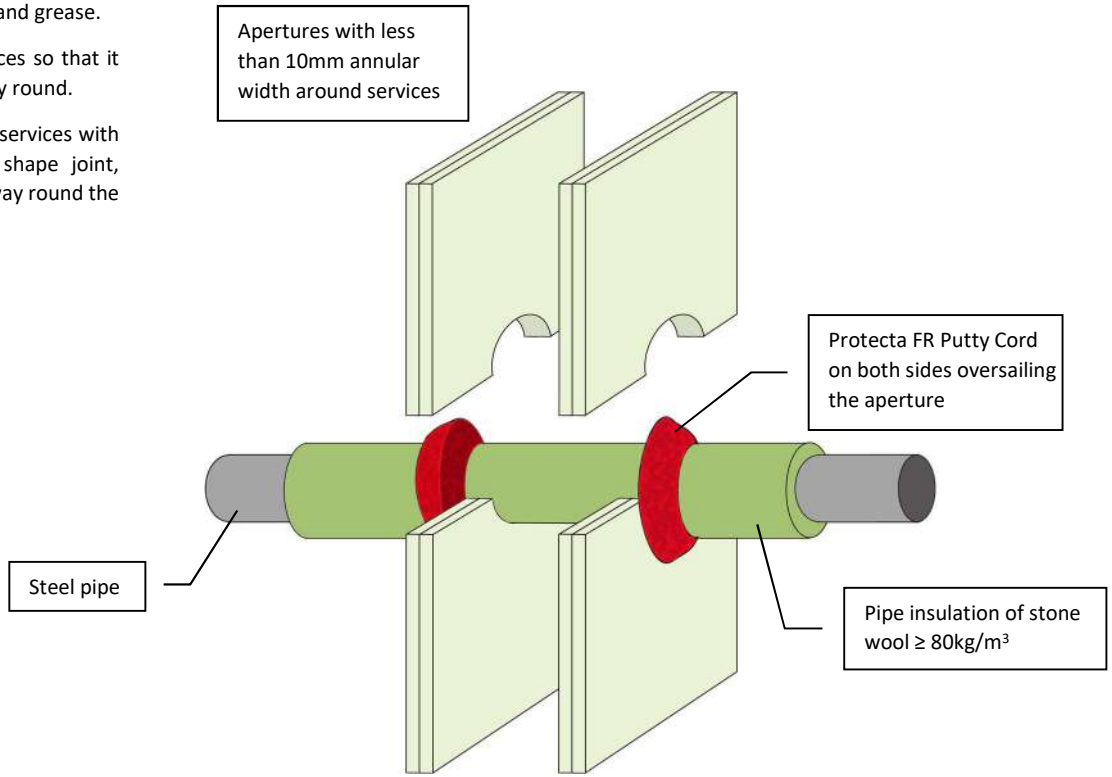
EI 20 C/U & E 90

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Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø40mm with 20mm thick continuous pipe insulation

EI 120 C/U & E 120

Steel pipe ≤ Ø324mm with 30-80mm thick continuous pipe insulation

EI 60 C/U & E 90

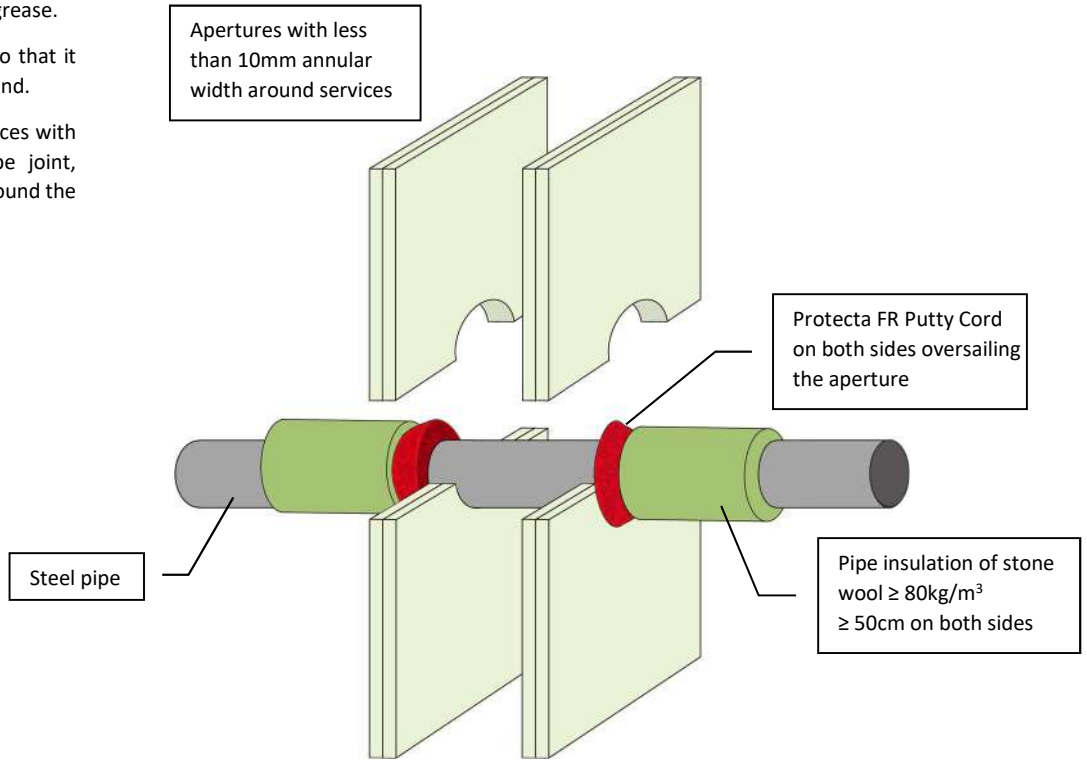
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Tel: +44 (0) 148 4421036
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Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation

EI 120 C/U & E 120

Steel pipe ≤ Ø324mm with ≥ 30mm thick pipe insulation

EI 120 C/U & E 120

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Tel: +44 (0) 148 4421036
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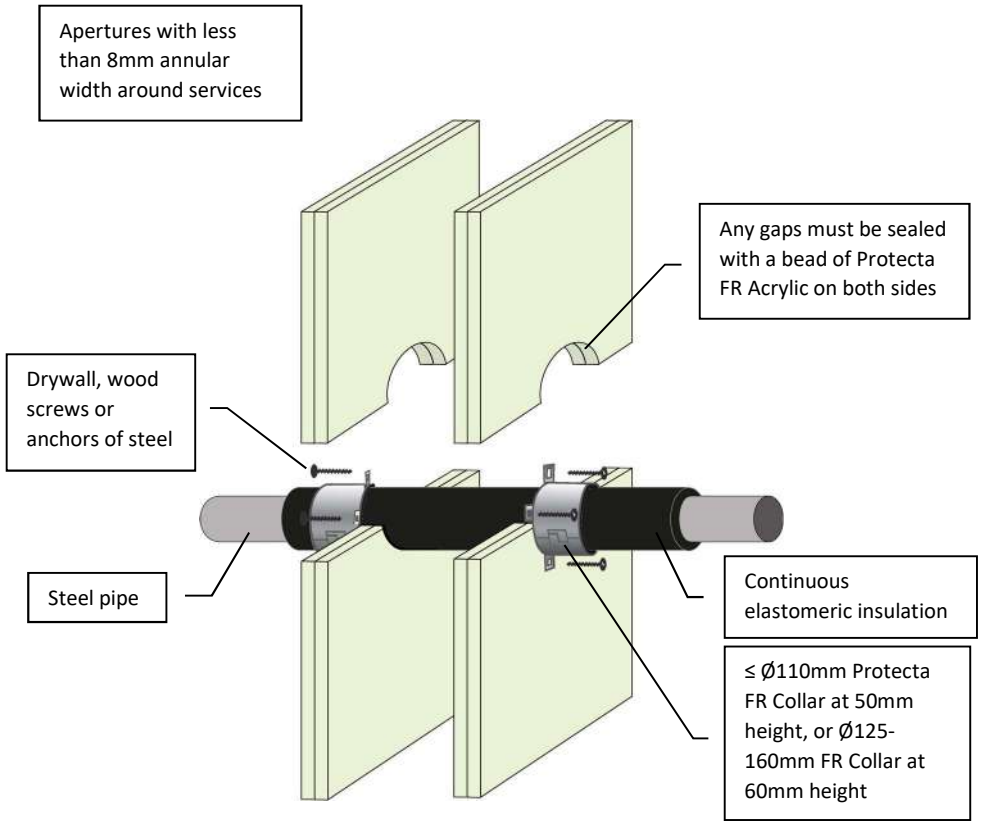
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Steel pipe ≤ Ø54mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

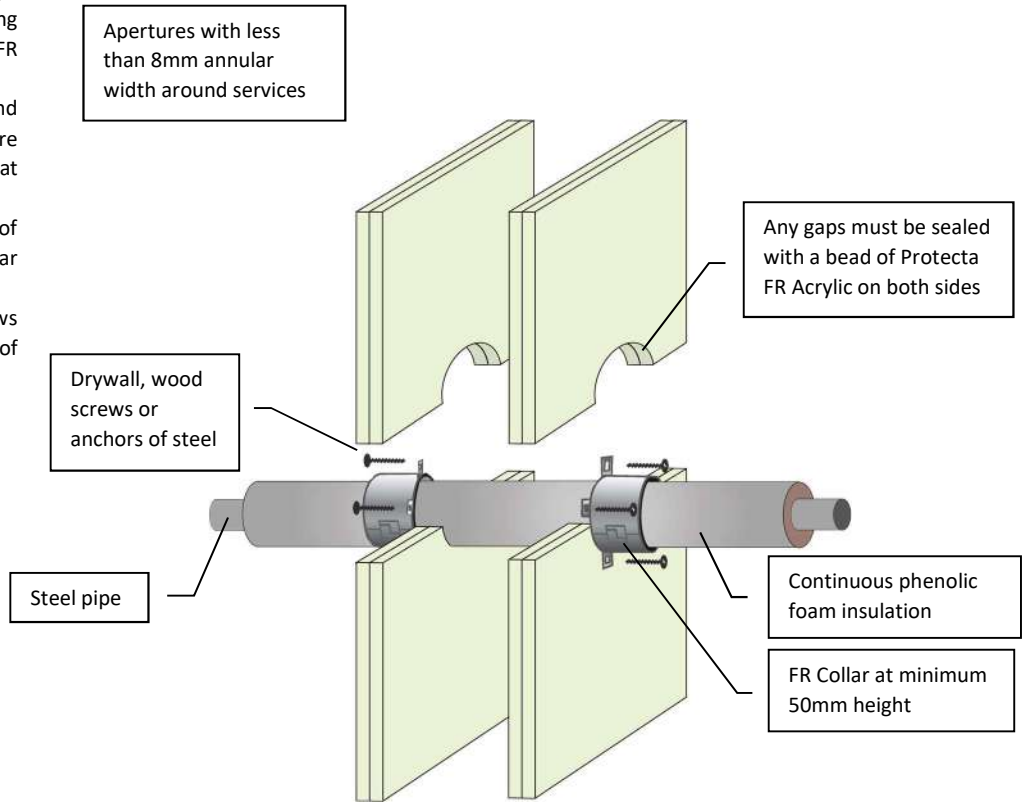
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

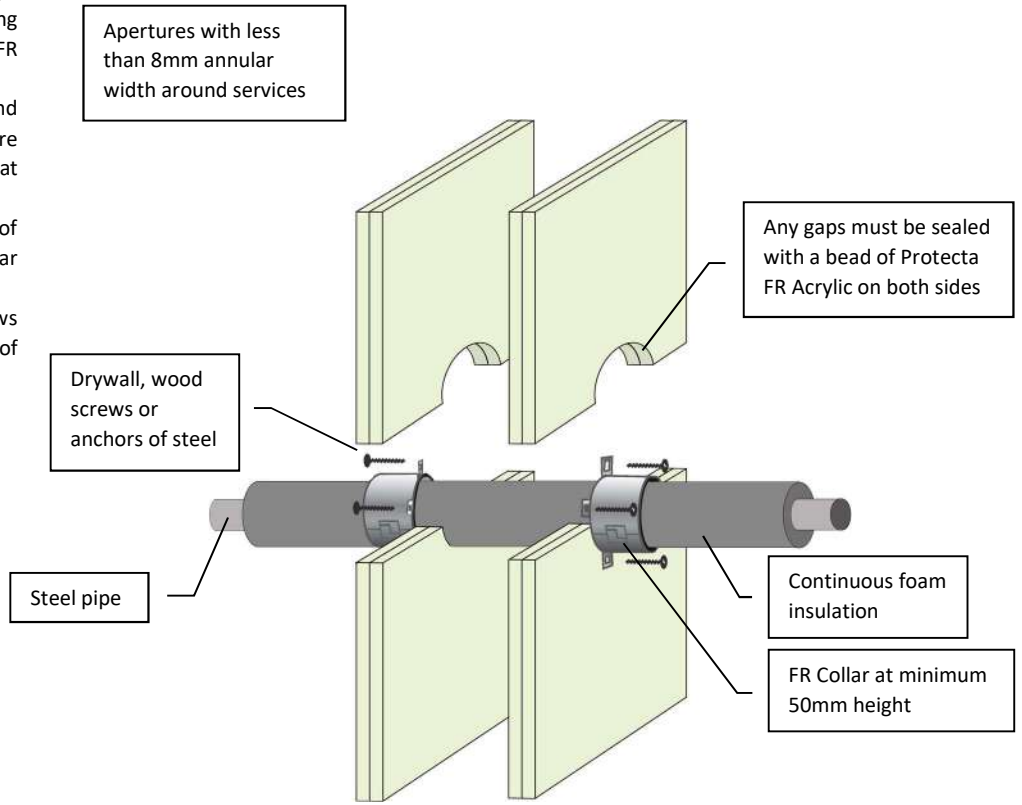
Steel pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Steel pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Steel pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Steel pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Steel pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

Protecta®
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Steel pipe ≤ Ø54mm with 20mm thick PE insulation — EI 90 C/C & E 120

Steel pipe ≤ Ø54mm with 40mm thick PU insulation — EI 60 C/C & E 120

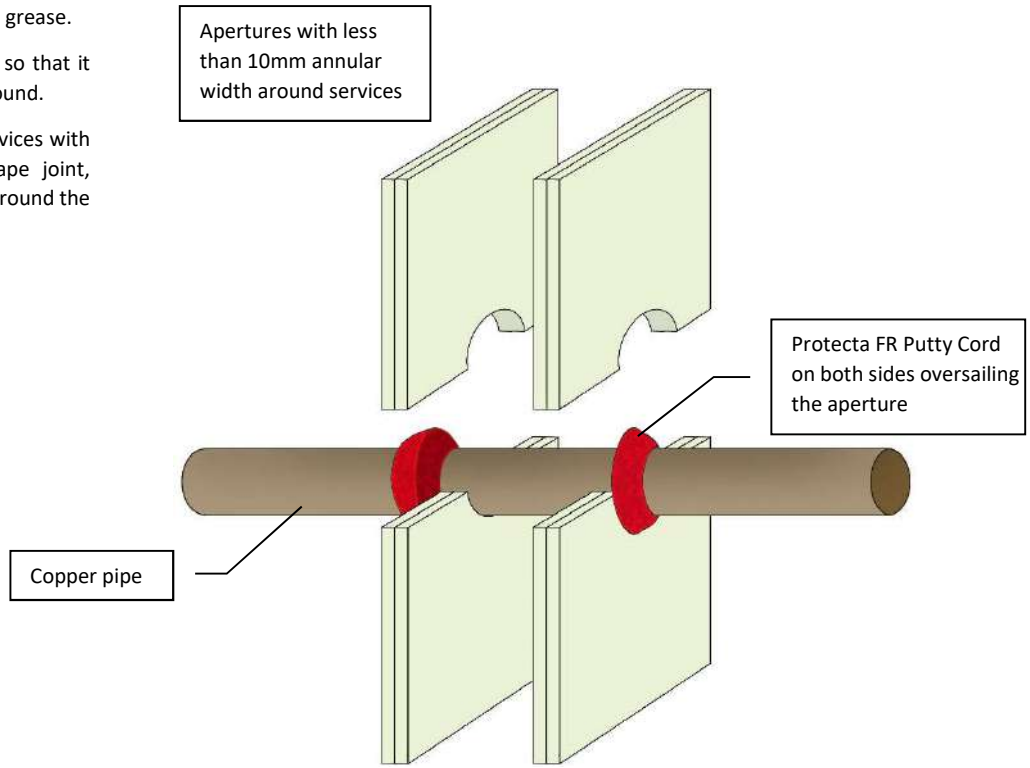
Sound reduction (seal only) — Rw 58 dB

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Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø 12mm

EI 60 C/C & E 120

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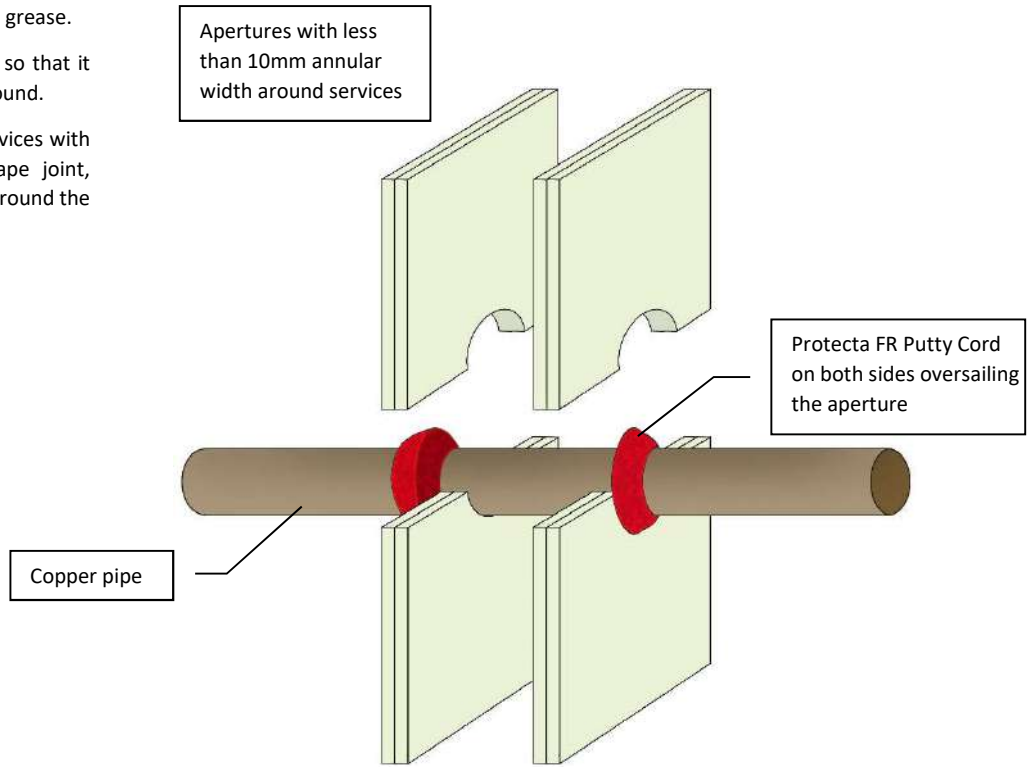
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Installation Instructions

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ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø 54mm

EI 15 C/C & E 90

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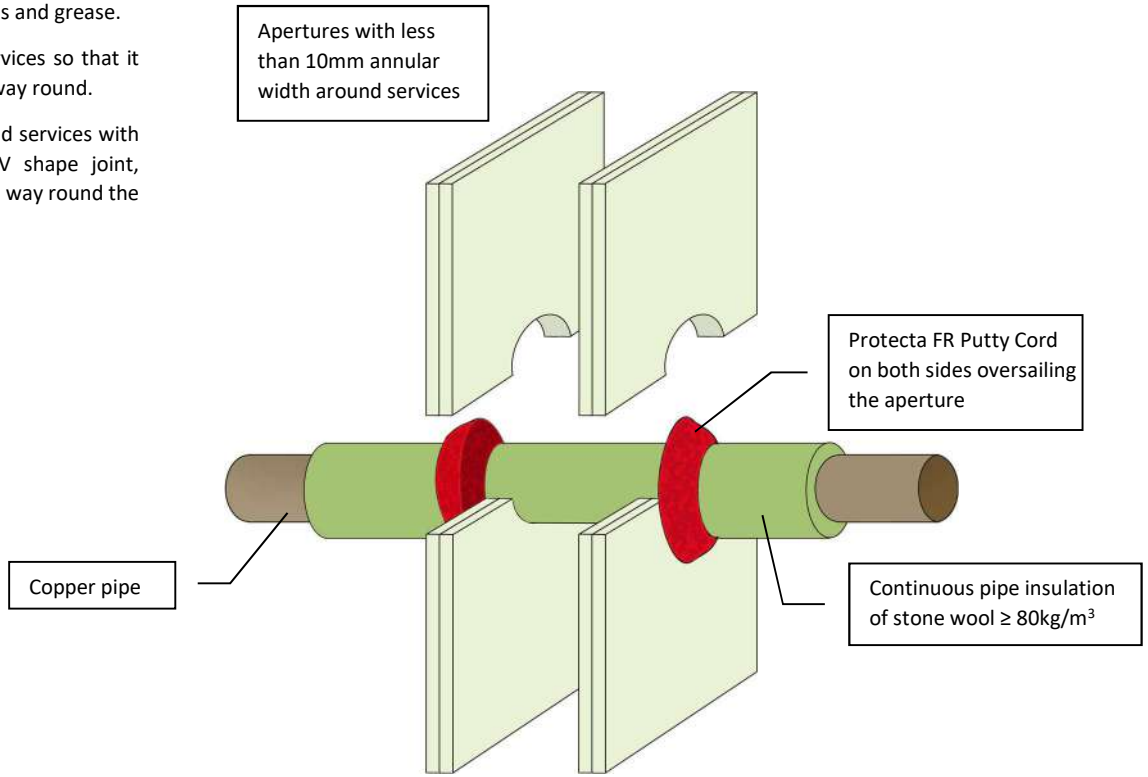
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Installation Instructions

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ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø12mm with 20mm thick pipe insulation

EI 60 C/C & E 90

Copper pipe ≤ Ø54mm with 30-80mm thick pipe insulation

EI 60 C/C & E 90

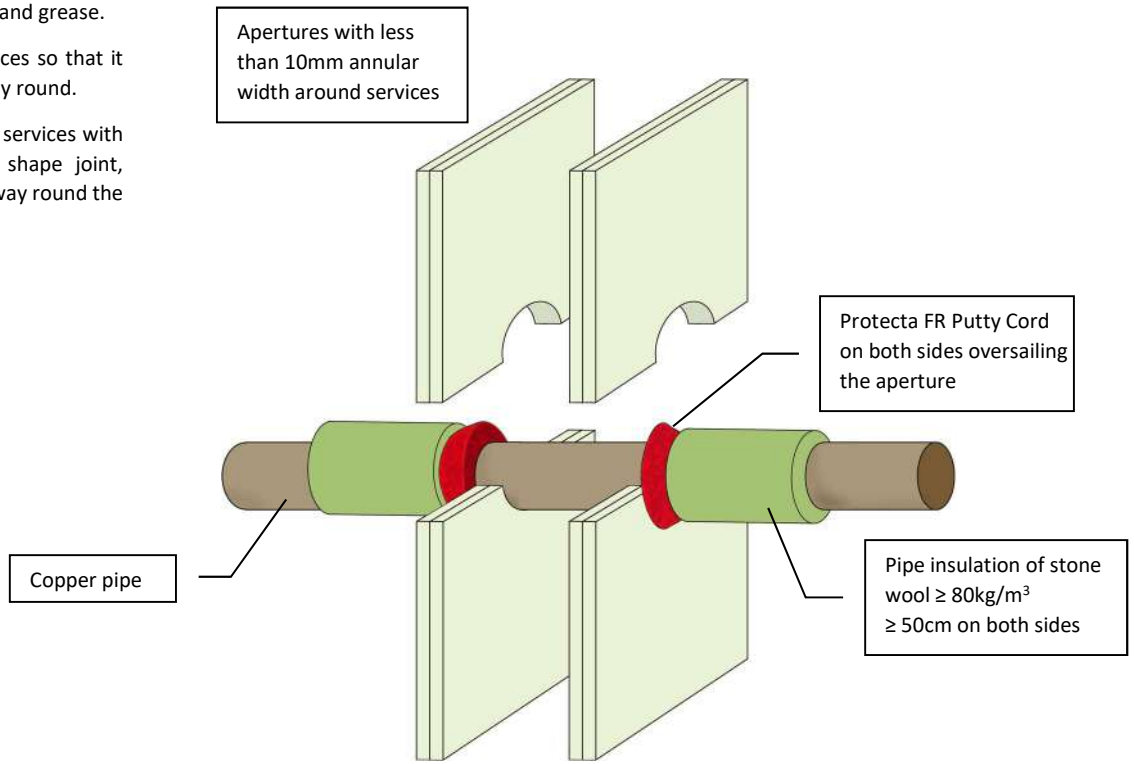
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3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 60 C/C & E 90

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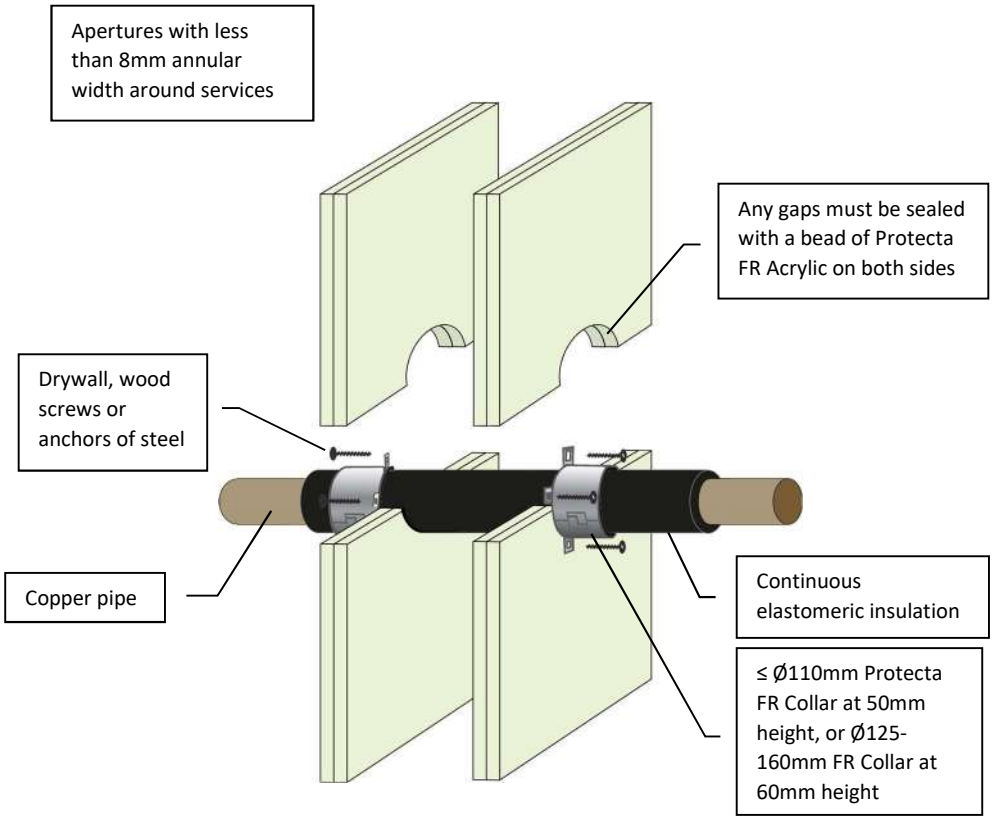
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Installation Instructions

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2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Copper pipe ≤ Ø54mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

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Scale: **NTS**	Drawn by: K.B

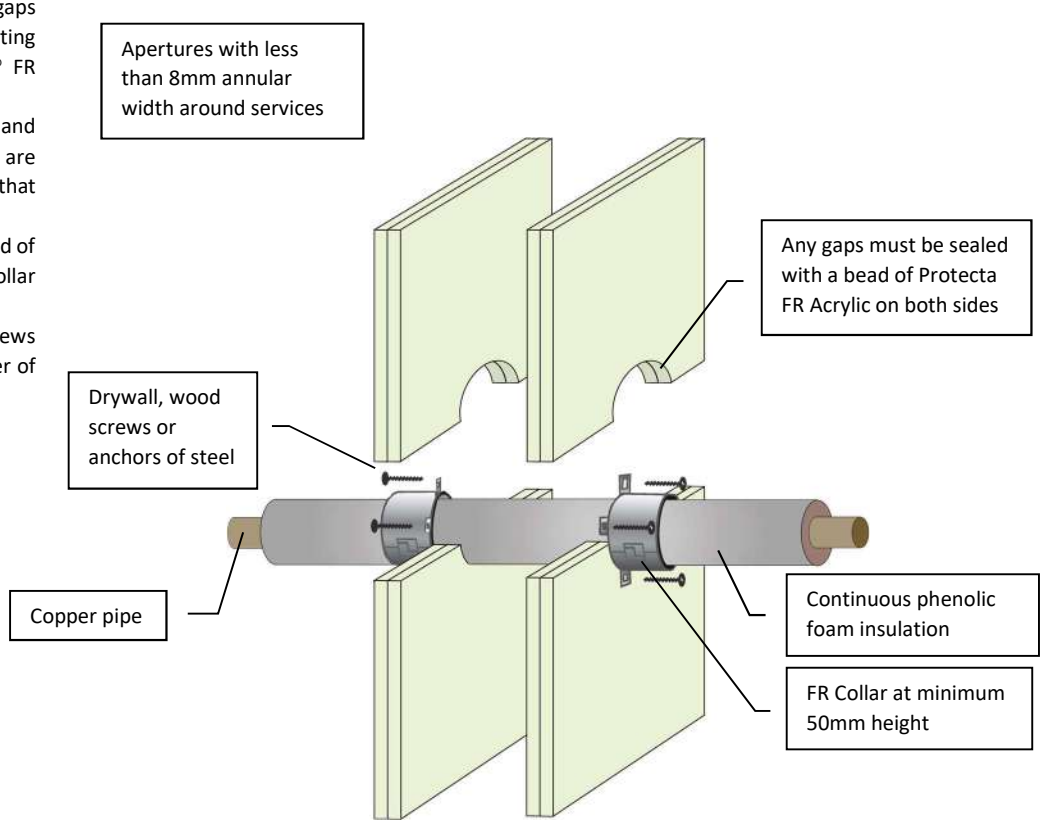
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ETA 22/0752

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

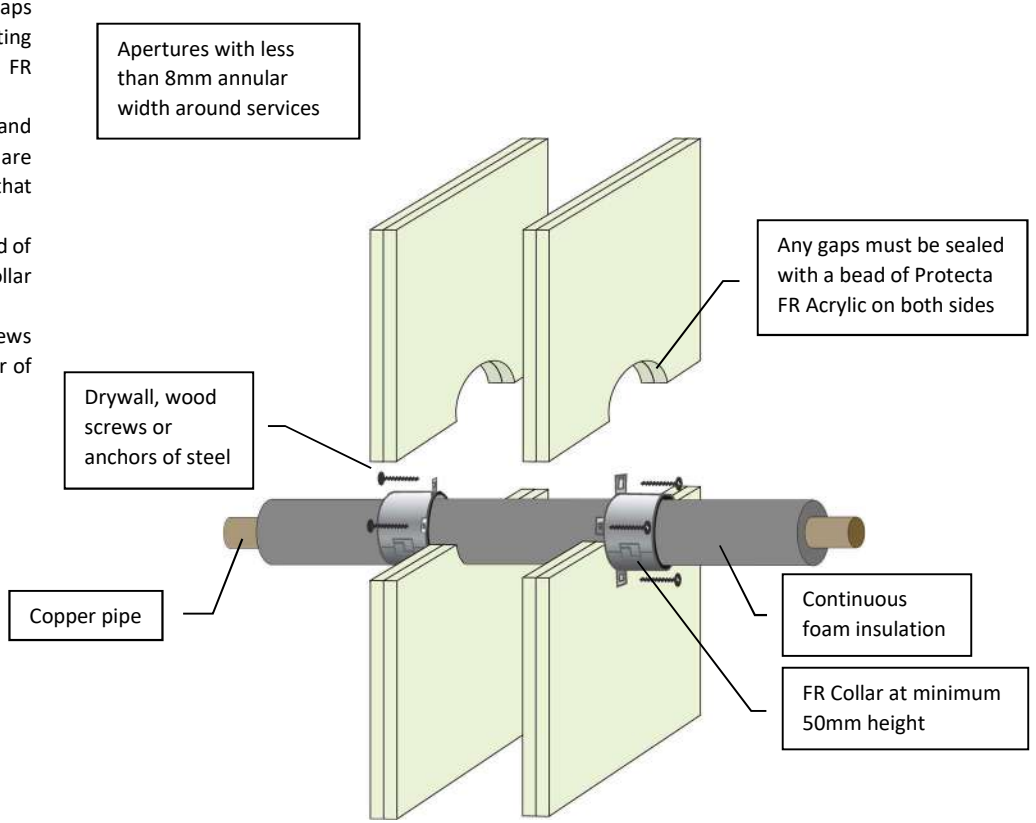
Copper pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

Protecta®
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20mm thick PE insulation — EI 90 C/C & E 120

Copper pipe ≤ Ø54mm with 40mm thick PU insulation — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58 dB

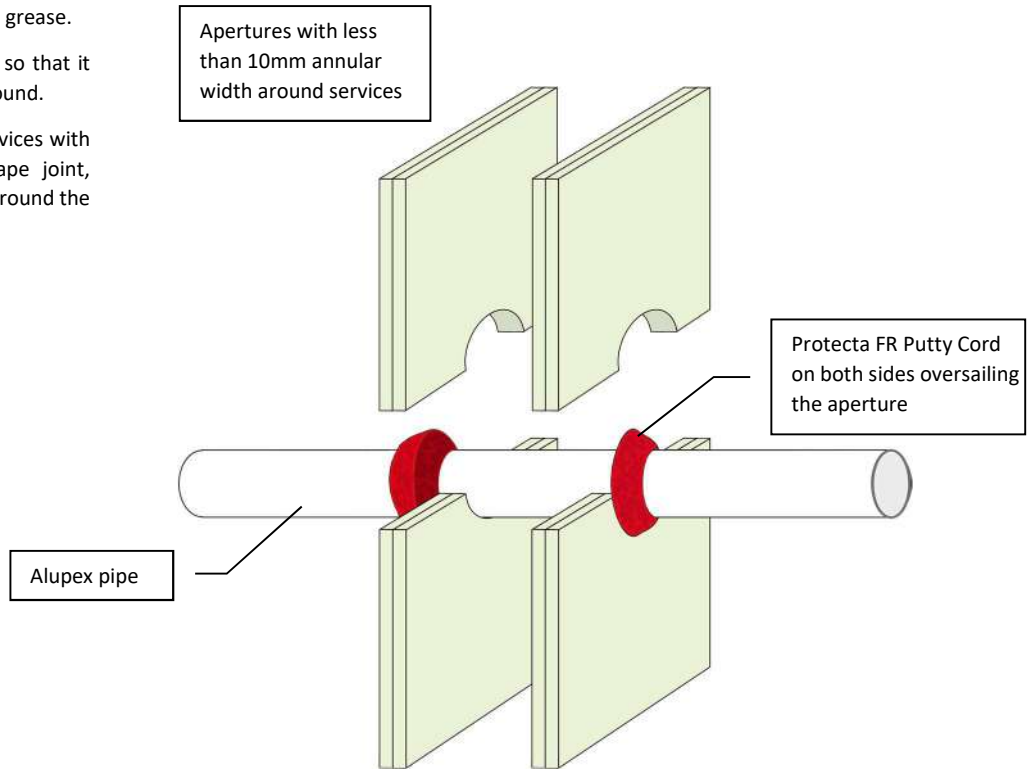
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø 16mm
EI 120 C/C & E 120

Alupex pipe ≤ Ø 20mm
EI 90 C/C & E 120

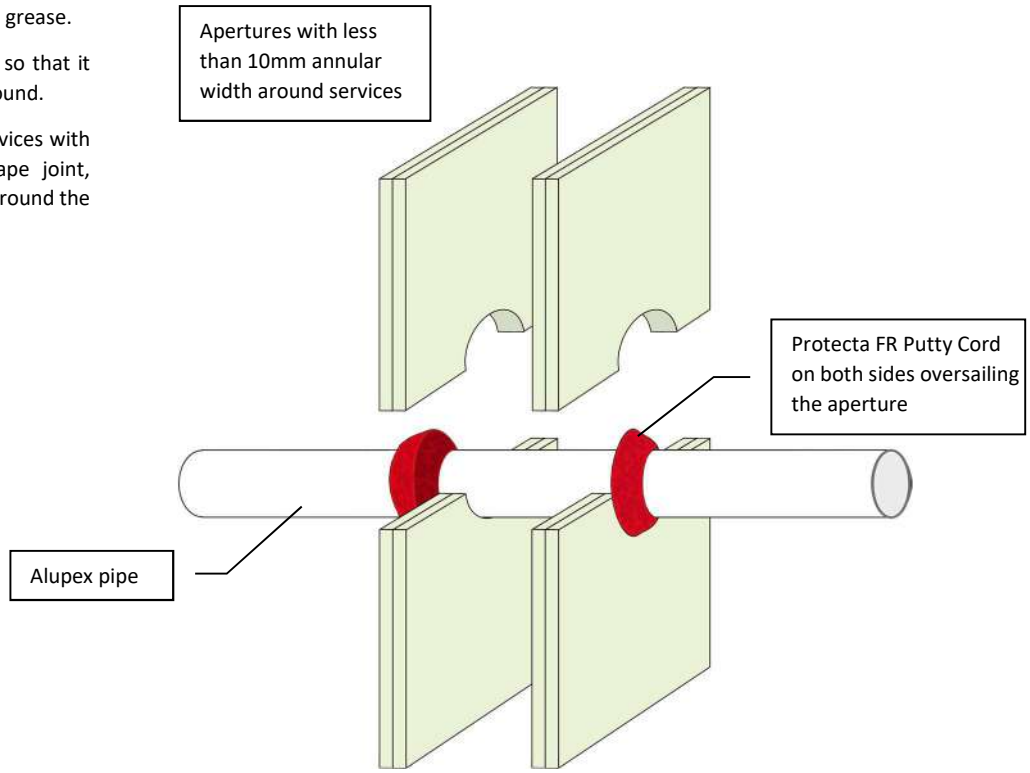
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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø 75mm

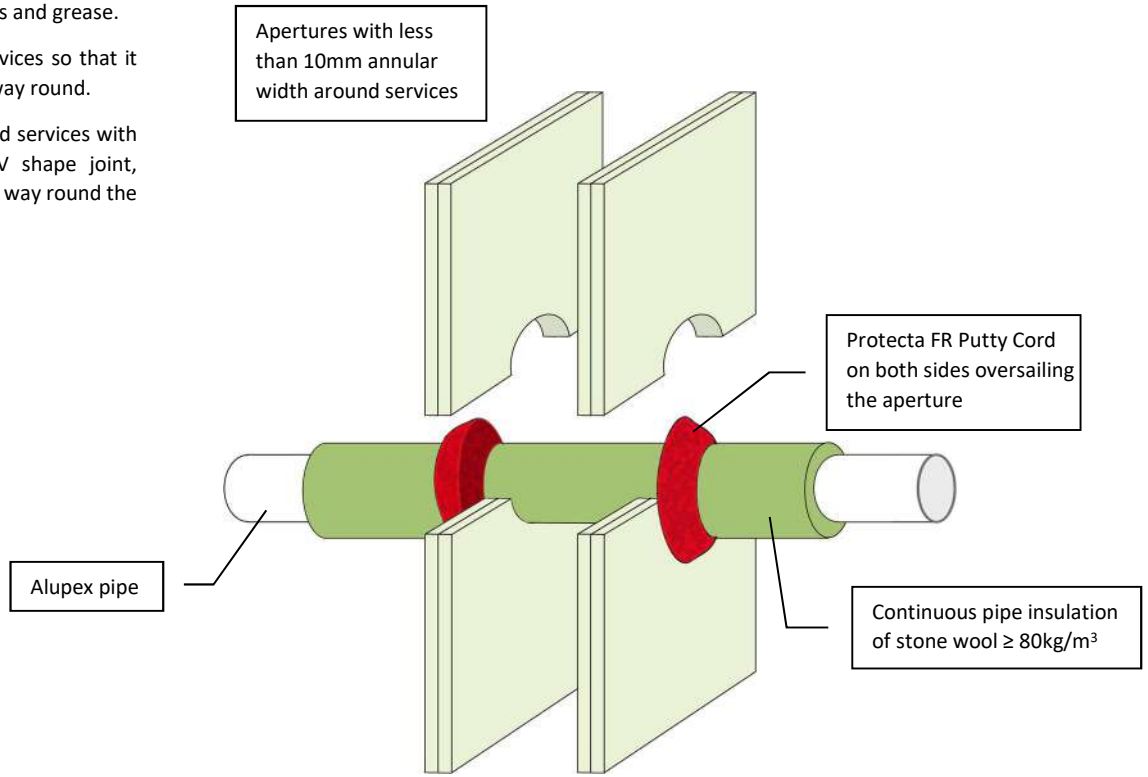
EI 90 C/C & E 90

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ETA 22/0032

UKTA 22/0024

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 20mm thick pipe insulation

EI 90 C/C & E 90

Alupex pipe ≤ Ø75mm with 30-80mm thick pipe insulation

EI 90 C/C & E 90

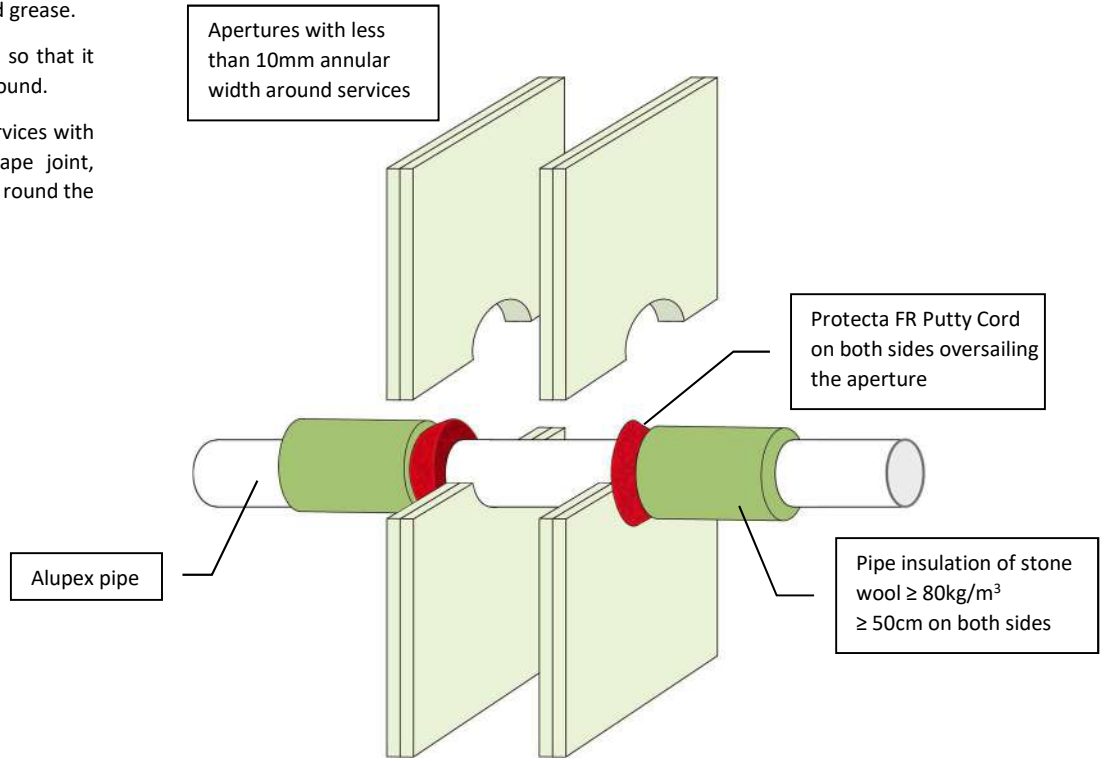
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ETA 22/0032

UKTA 22/0024

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø16mm with ≥ 20mm thick pipe insulation

EI 90 C/C & E 90

Alupex pipe ≤ Ø75mm with ≥ 30mm thick pipe insulation

EI 90 C/C & E 90

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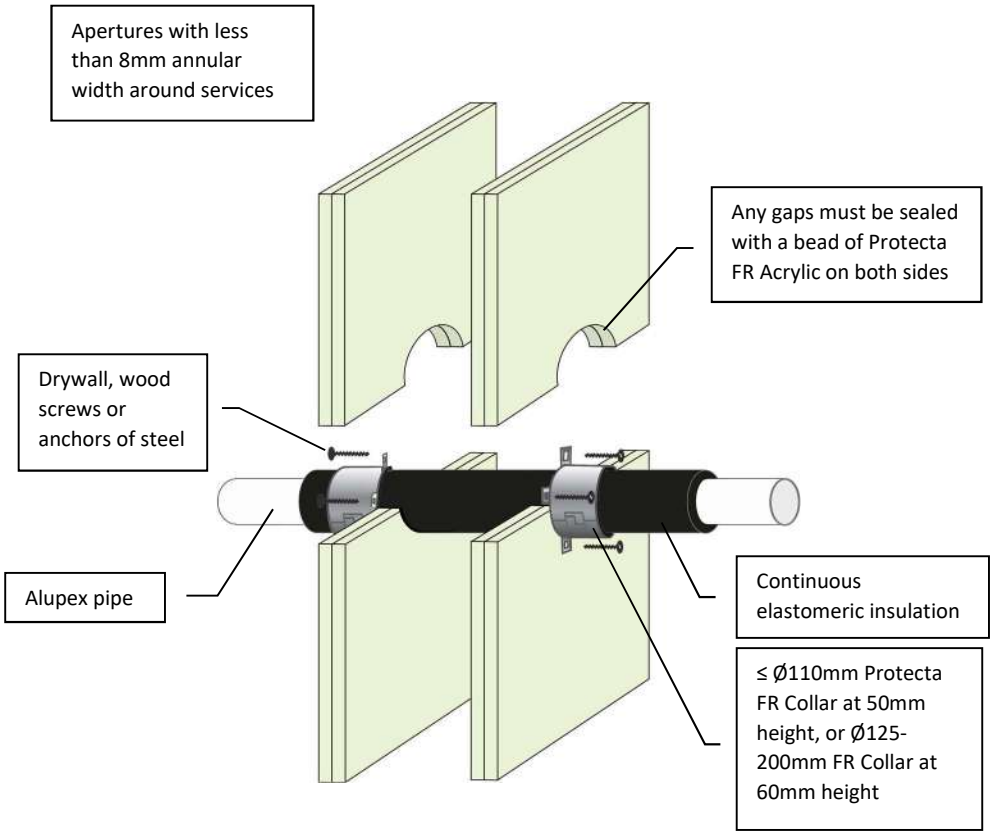
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 58 dB

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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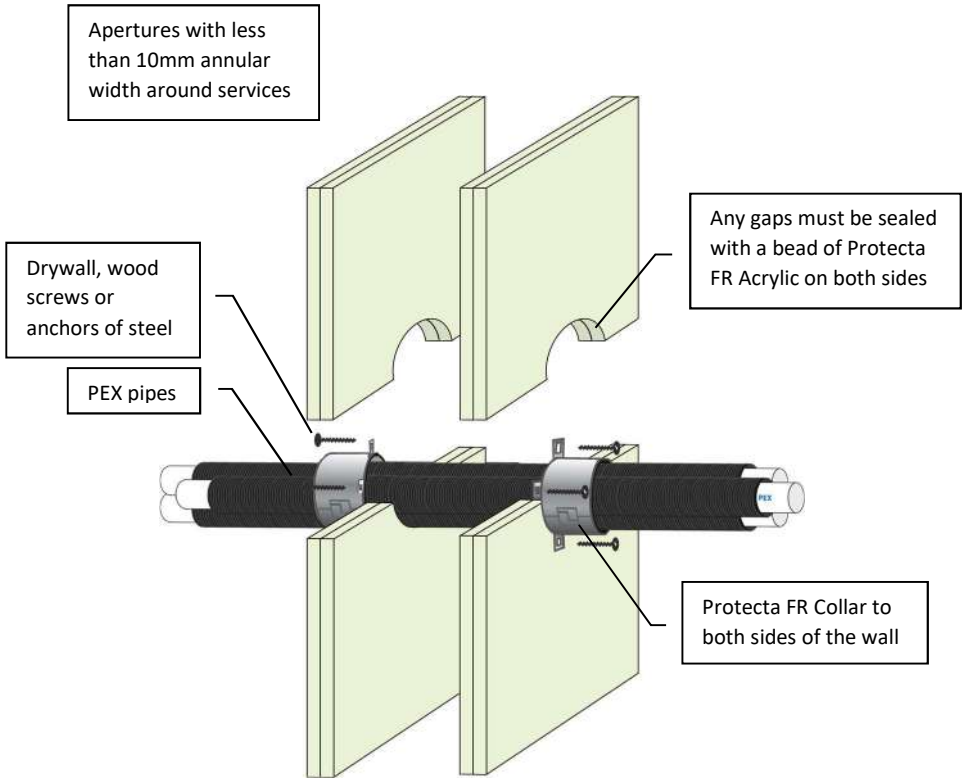
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Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipes and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place a suitable collar around the pipes 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of PEX pipe-in-pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PEX pipes ≤ Ø 25mm, single or in a bundle ≤ Ø55mm, with collars at ≥ 30mm height
EI 90 C/C & E 120

PEX pipes ≤ Ø 42mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 C/C & E 60

Sound reduction (seal only)
58dB

Protecta®

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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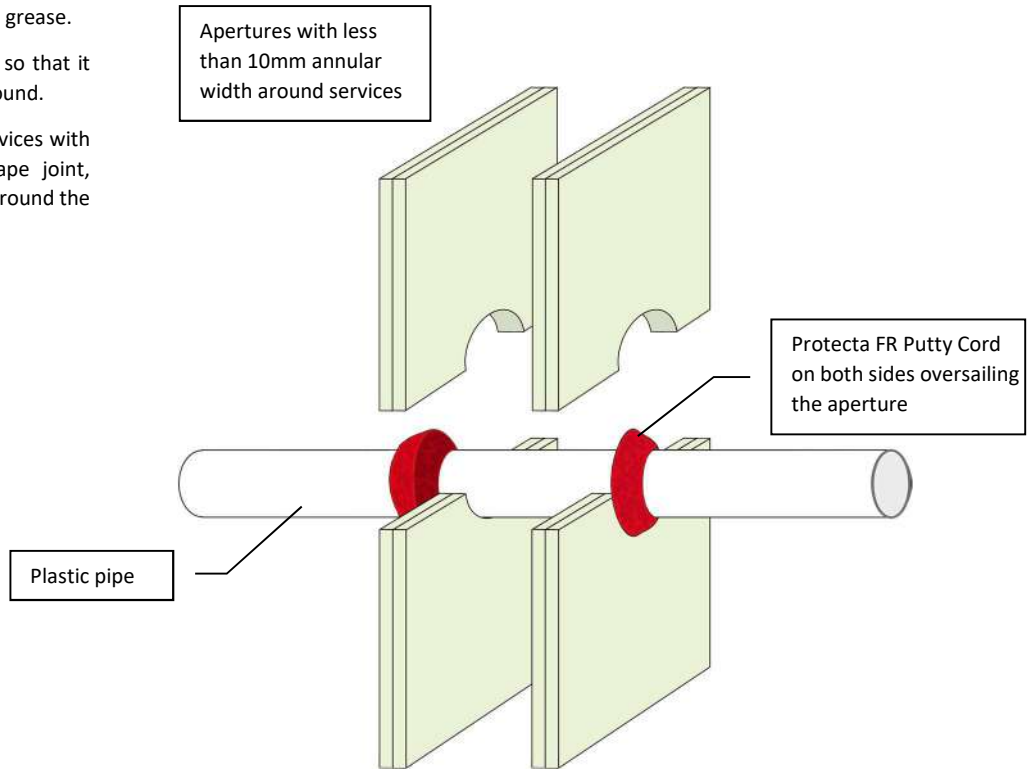
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Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Putty Cord ensure that the surface of all service penetrations and surrounding construction is wiped clean, dry, free from all loose contaminants, dust, oils and grease.
2. Place the Putty Cord around the services so that it seals the services to the wall all the way round.
3. Press the Putty Cord into the wall and services with your thumbs to form a fillet or V shape joint, ensuring good contact is made all the way round the services and the wall.



ETA 22/0032

UKTA 22/0024

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC-U or PVC-P pipe ≤ Ø 25mm with wall thickness 1.5mm

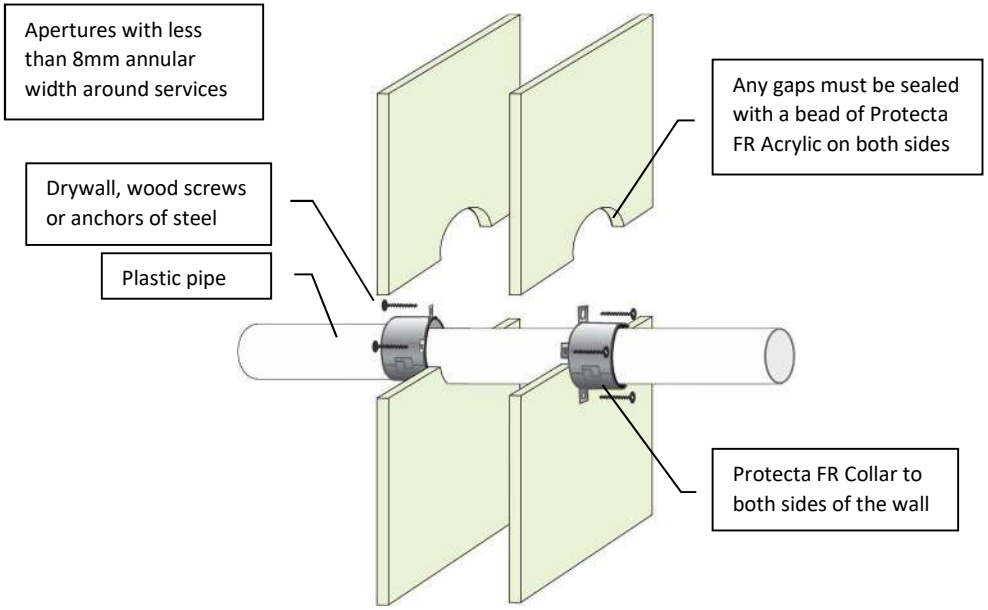
EI 60 U/C & E 60

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 30 C/C, EI 30 U/C, EI 30 C/U, EI 30 U/U (E 60)
≤ Ø90mm PVC-U & PVC-C	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø90mm PE, ABS & SAN+PVC	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 60)
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø50mm PP	30mm	EI 30 C/C, EI 30 U/C, EI 30 C/U, EI 30 U/U (E 60)
≤ Ø90mm PP	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PP	30mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø140mm PP	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C (E 60)

ETA 22/0752 UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in flexible walls

Construction Minimum wall 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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

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Tel: +44 (0) 148 4421036
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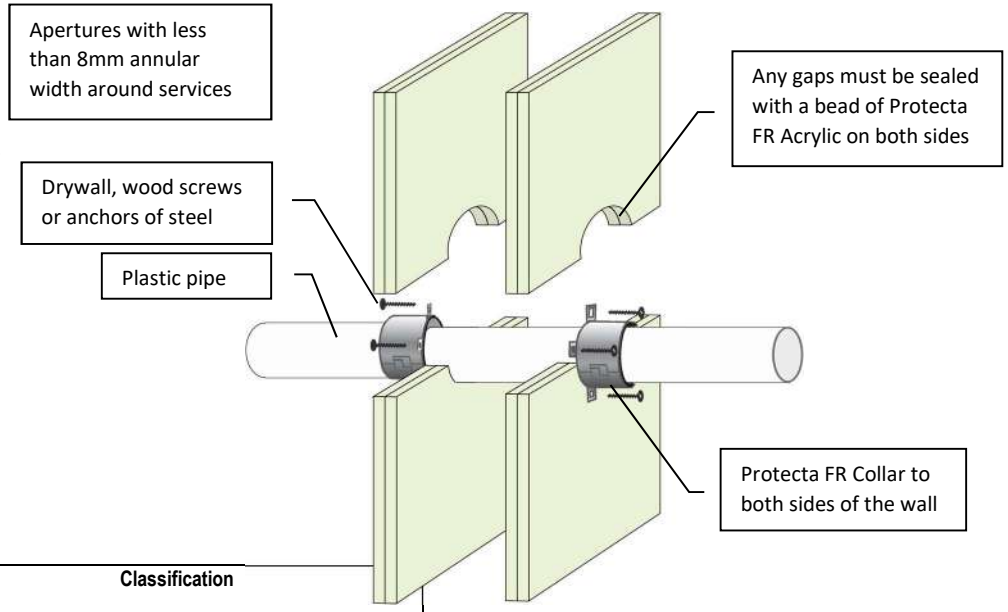
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NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
≤ Ø140mm PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
≤ Ø315mm PVC-U & PVC-C	75mm	EI 90 C/C
≤ Ø400mm PVC-U & PVC-C	100mm	EI 90 C/C (E 120)
≤ Ø50mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø140mm PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
Ø160mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
≤ Ø200mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C (E 120)
Ø400x36.3mm PE, ABS & SAN+PVC	100mm	EI 90 C/C
≤ Ø50mm PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø110mm PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PP	60mm	EI 90 C/C, EI 90 U/C (E 120)
Ø400x22.7mm PP	100mm	EI 60 C/C

UKTA 22/0026 ETA 22/0752

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in flexible walls

Construction Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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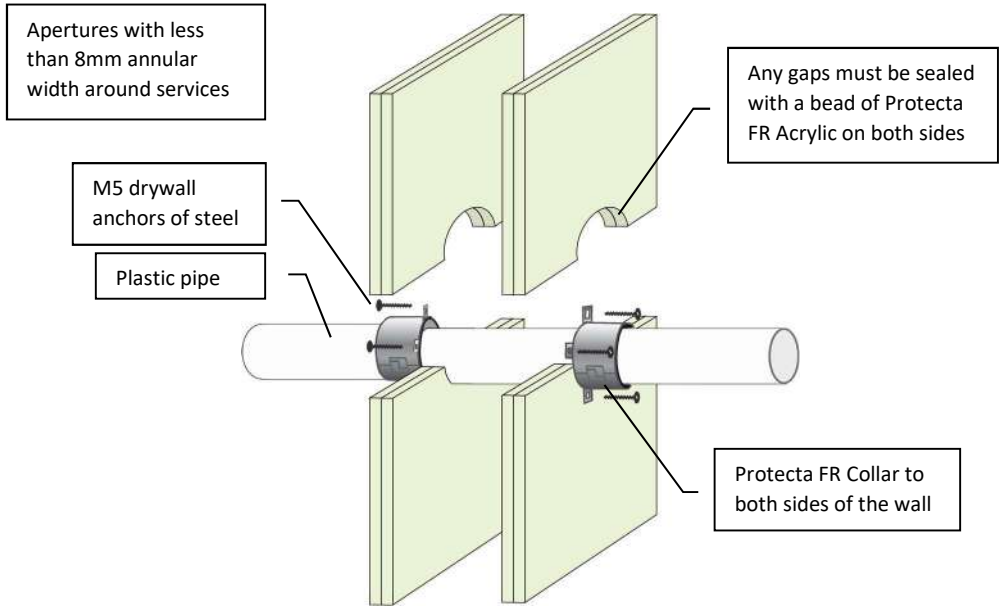
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Signed and approved:

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

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of 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 M5 drywall anchors with a length suitable for the number of boards that form the wall.



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
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/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 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

ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes in 2 hour fire rated flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)

Rw 58dB

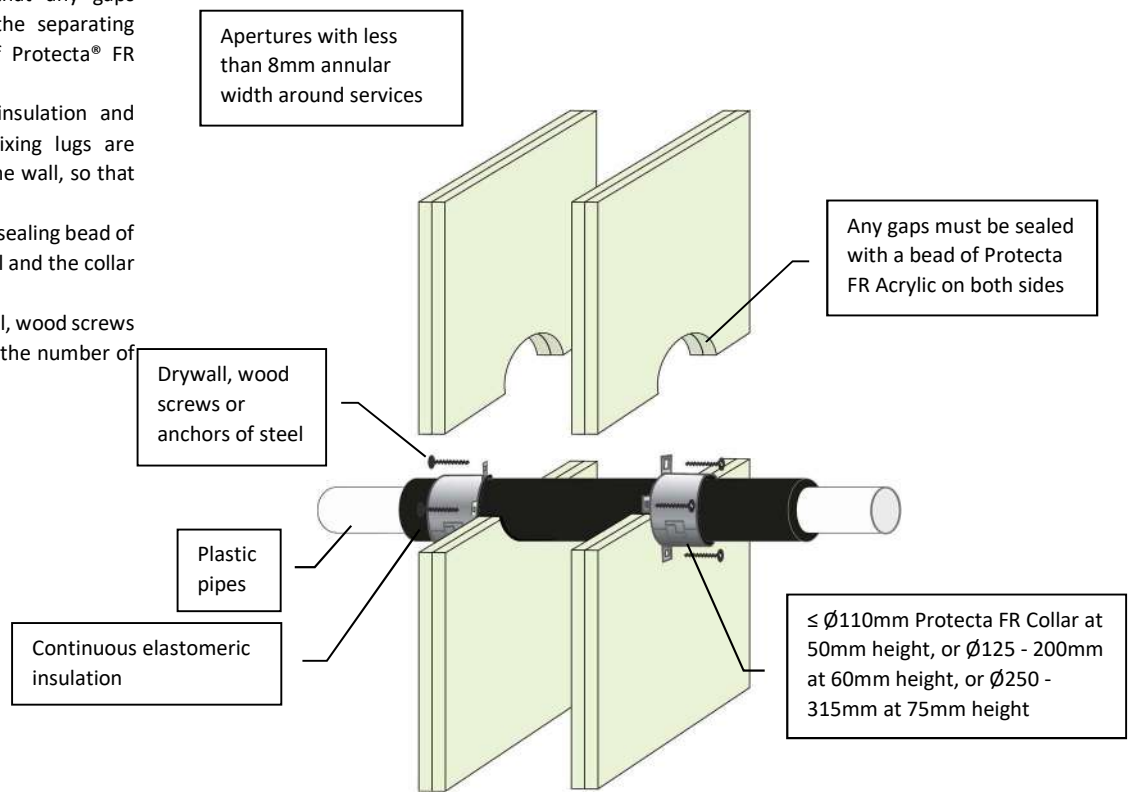
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Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe insulation and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of insulated plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe Ø160mm with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe Ø160mm with wall thickness 4.9 – 14.6mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

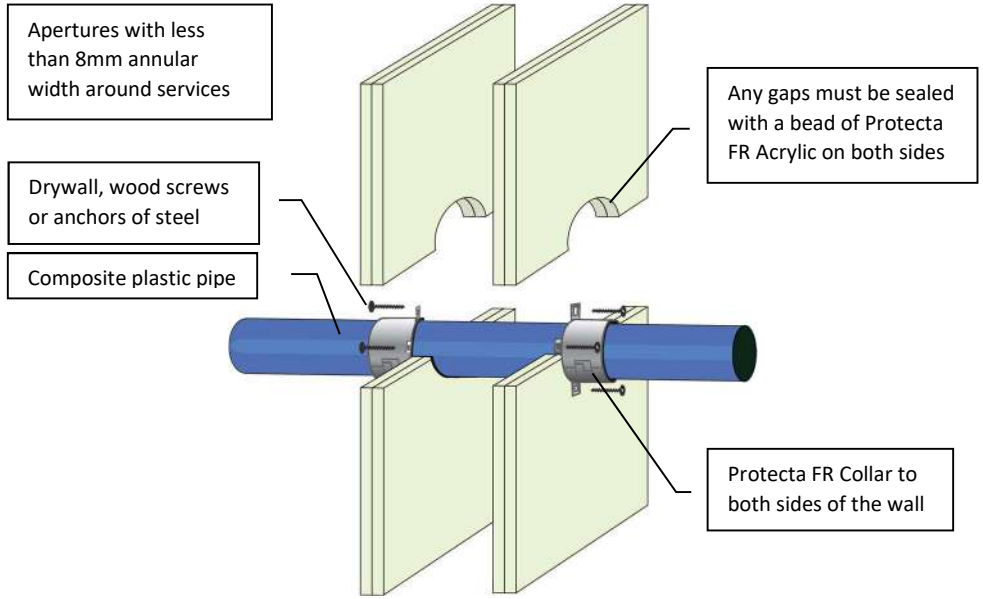
Sound reduction (seal only) Rw 58 dB

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Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe and the separating element are sealed with a bead of 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 120 C/C (E 120)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 60 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 90 U/U (E 120)
≤ Ø110mm BluePower	50mm	EI 60 C/U (E 120)
Ø125mm BluePower	60mm	EI 60 C/U (E 60)
Ø160mm BluePower	60mm	EI 90 C/U (E 90)
≤ Ø50mm Geberit Silent-PP	50mm	EI 120 U/U (E 120)
≤ Ø110mm Geberit Silent-PP	50mm	EI 60 U/U (E 120)
≤ Ø160mm Geberit Silent-PP	60mm	EI 90 U/C (E 90)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 120 U/U (E 120)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 90 U/U (E 120)
Ø125mm Polo-Kal NG pipes	60mm	EI 120 U/C (E 120 U/U)

Services	Minimum Collar Height	Classification
Ø160mm Polo-Kal NG pipes	60mm	EI 120 U/U (E 120)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 90 U/U (E 120)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 60 U/U (E 120)
≤ Ø160mm Rehau Raupiano Plus	60mm	EI 120 U/U (E 120)
≤ Ø110mm Uponor Decibel pipes	50mm	EI 60 U/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 90 U/U (E 120)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 120)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 120)
≤ Ø200mm Wavin AS+	60mm	EI 90 U/C (E 120)
≤ Ø50mm Wavin SiTech	50mm	EI 120 U/U (E 120)
≤ Ø110mm Wavin SiTech	50mm	EI 60 U/U (E 120)

ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of composite plastic pipes in flexible walls

Construction Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)
Rw 58dB

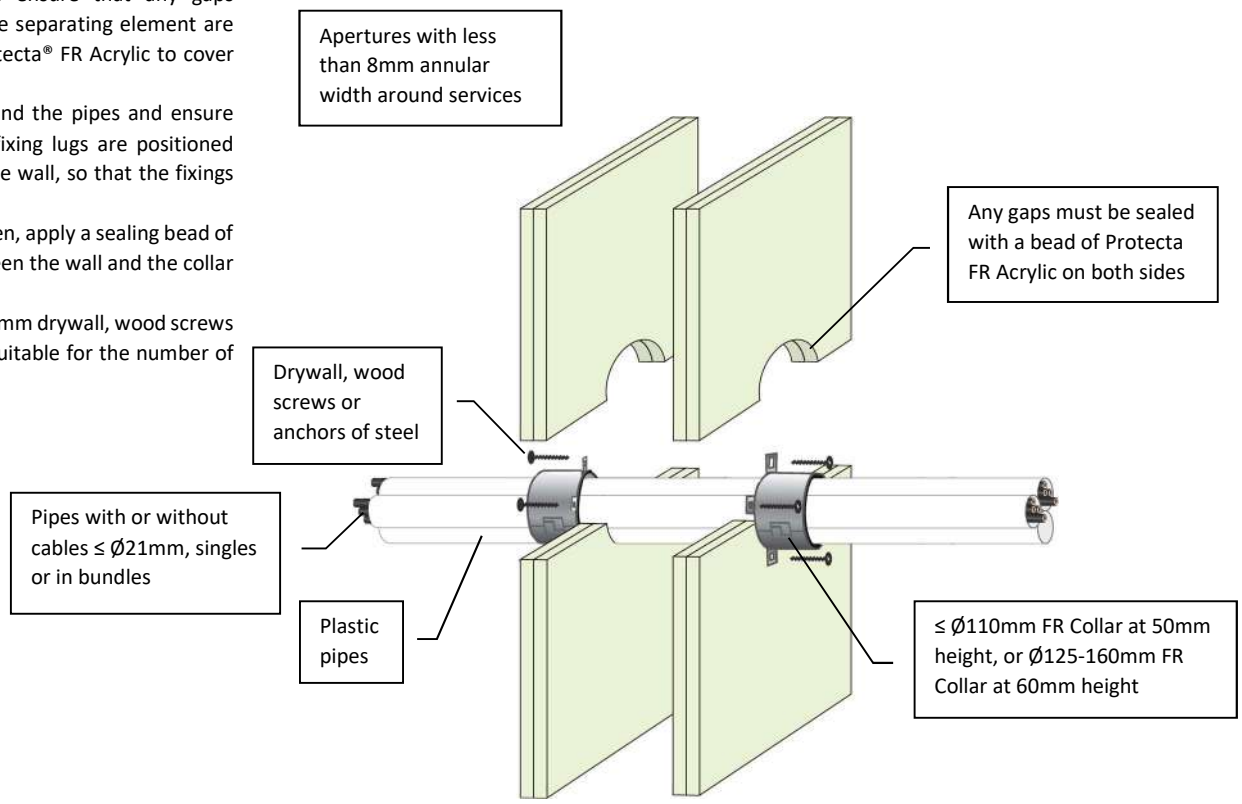
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipes and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes and cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC pipes ≤ Ø40mm, single, or in a bundle ≤ Ø160mm with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes ≤ Ø40mm, single, or in a bundle ≤ Ø160mm with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes ≤ Ø40mm, single, or in a bundle ≤ Ø160mm with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 58 dB

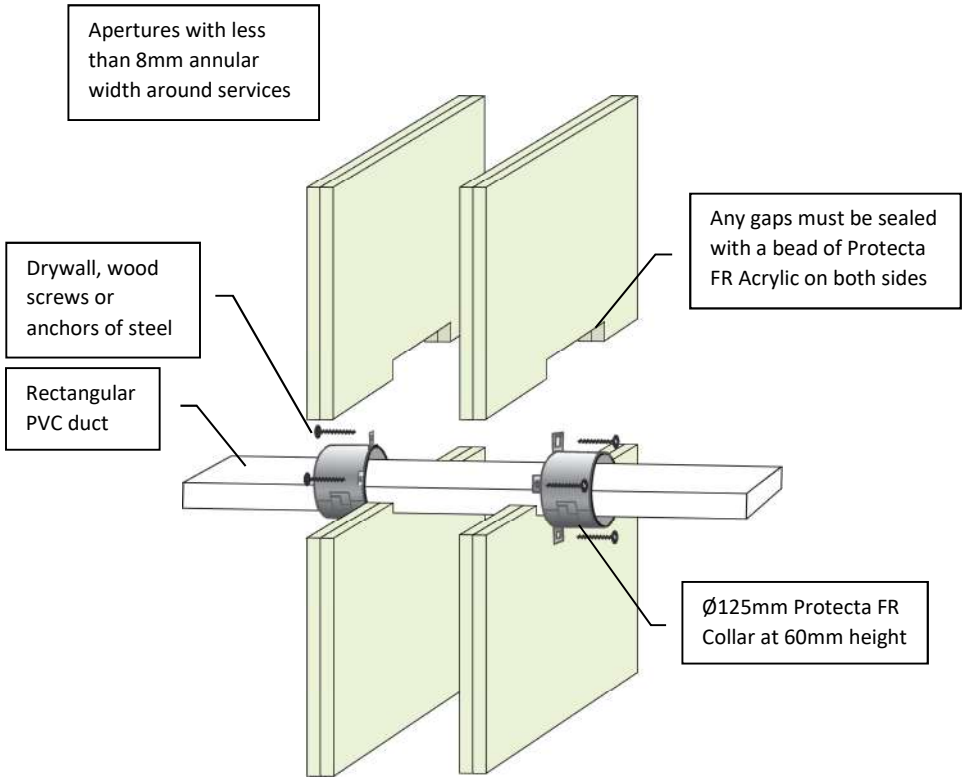
Protecta®

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the duct and the separating element are sealed with a bead of Protecta® FR Acrylic to cover the opening.
2. Place a suitable collar around the duct 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic ducts in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC rectangular duct 54 x 110mm with wall thickness approx. 2mm

EI 60 U/U & E 120

Sound reduction (seal only)

58dB

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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

Signed and approved:

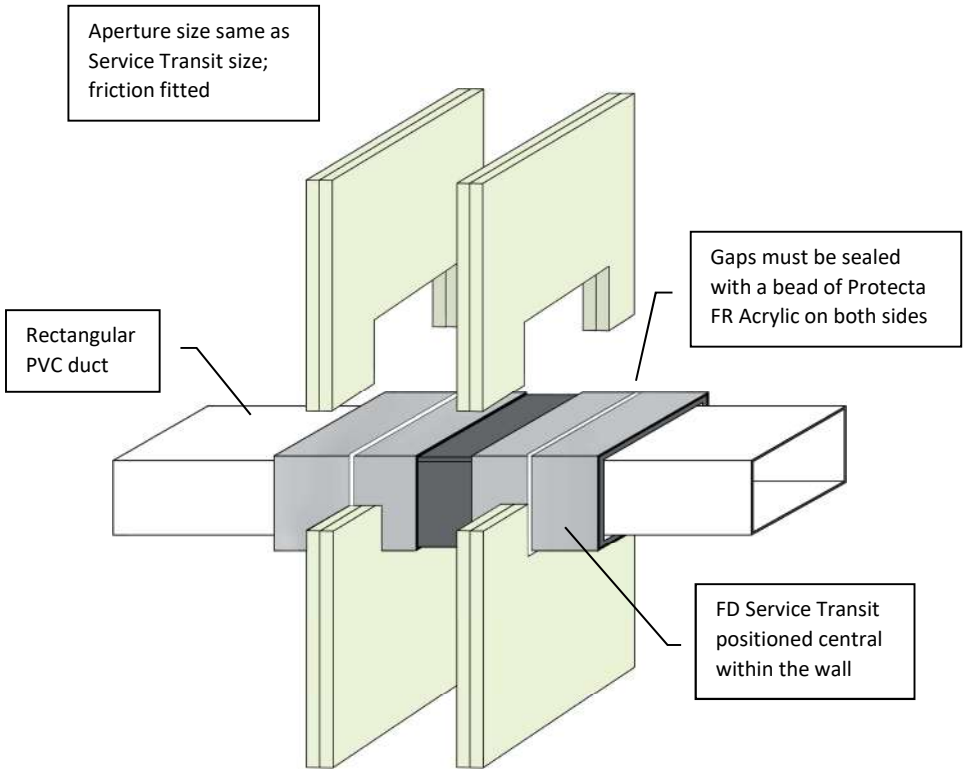
Sheet size: **A4**	Drawn date & no: 6/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Place a suitable FD Service Transit around the duct and ensure it is positioned central within the wall

2. Make sure there is a tight seal with no gaps around the Service Transit and that it is securely locked in position.

3. Seal the gaps between the Service Transit and the separating element with a bead of Protecta® FR Acrylic.



ETA 22/0734

UKTA 22/0030

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FD Service Transit Protecta FR Acrylic
Application	Fire stopping of plastic ducts in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

FD Service Transit 68 x 126mm with rectangular duct 54 x 110mm, wall thickness approx. 2mm
EI 120 U/U & E 120

FD Service Transit 108 x 240mm with rectangular duct 90 x 220mm, wall thickness approx. 2mm
EI 120 U/U & E 120

Sound reduction (seal only)
64dB

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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 12/5/24
Scale: **NTS**	Drawn by: K.B

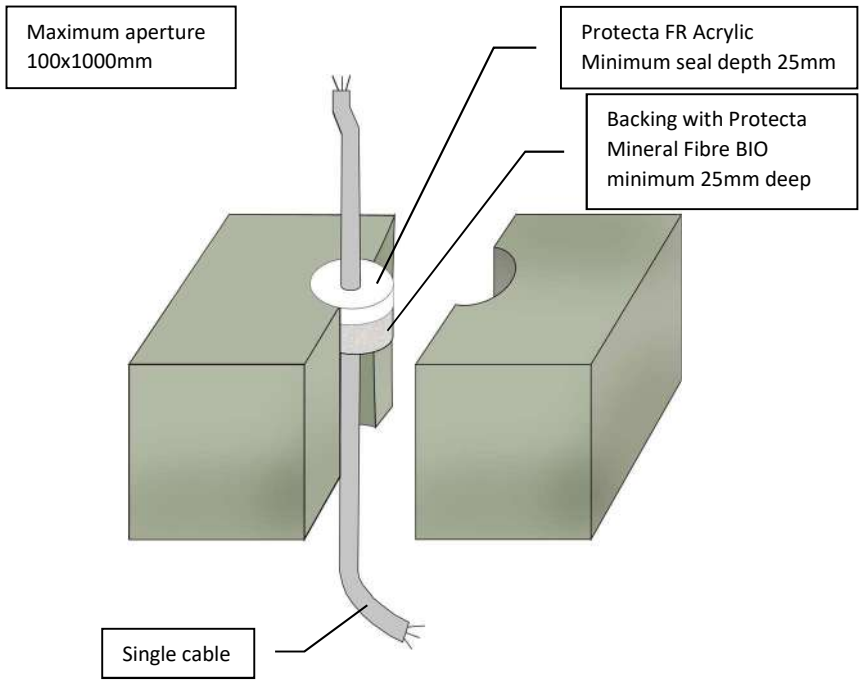
Appendix II

-

Service penetration solutions with annular gaps ≤ 30mm

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 Protecta® FR Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Cable ≤ Ø21mm in single sided seal, top or soffit face position

EI 60 & E 120

Sound reduction (seal only)

Rw 62 dB

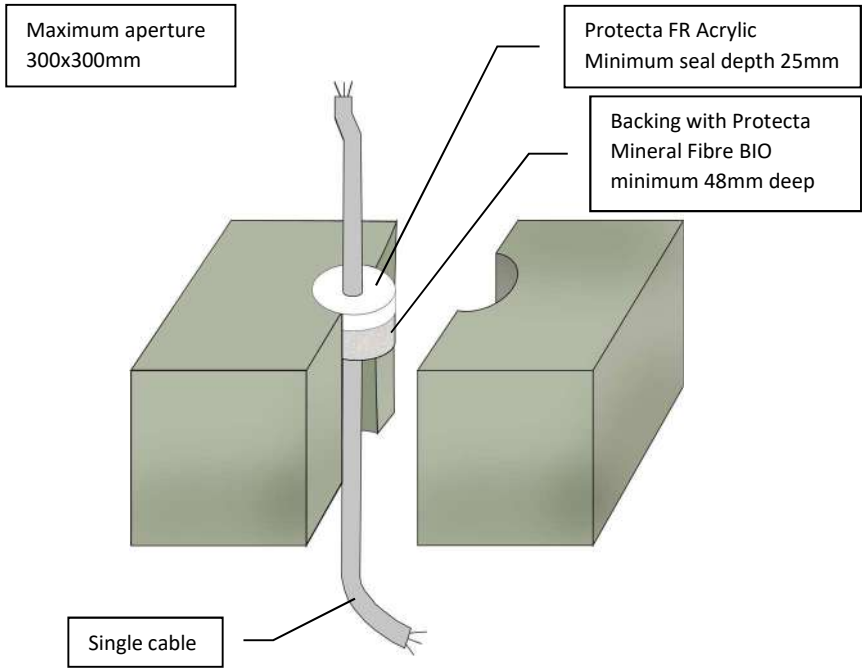
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 4/3/15
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 Protecta® FR Acrylic in hollow floor slabs or boards, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Cable ≤ Ø21mm
EI 90 & E 120

Cable Ø23-27mm 1x185mm^2 core with PVC sheath
EI 240 & E 240

Sound reduction (seal only)
Rw 62 dB

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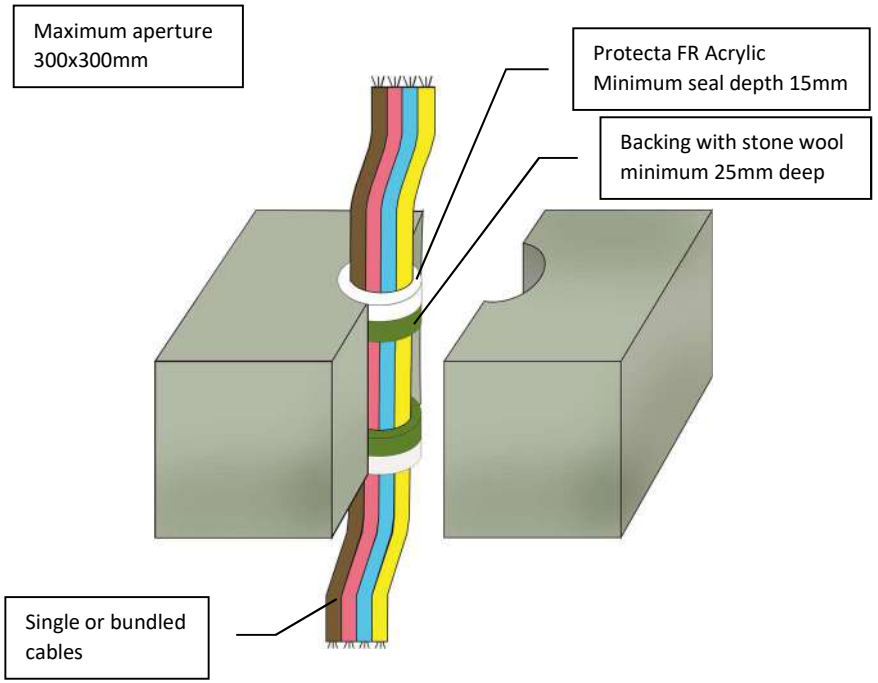
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Scale: **NTS**	Drawn by: K.B

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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Cables ≤ Ø21mm single or in a bundle
≤ Ø100mm — EI 120 & E 120

Cables ≤ Ø50mm single or in a bundle
≤ Ø100mm — EI 90 & E 120

Cables ≤ Ø80mm single or in a bundle
≤ Ø100mm — EI 60 & E 120

Sound reduction (seal only)
Rw 62 dB

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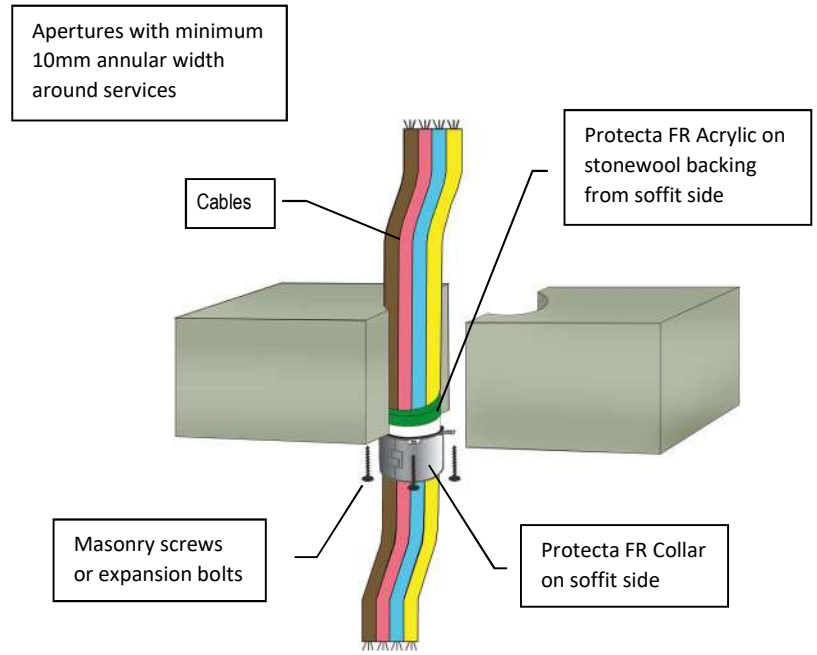
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 9/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the bundled cables and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the cables and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Cables ≤ Ø 21mm, in a bundle ≤ Ø55mm, with collars ≤ Ø55mm at ≥ 30mm height
EI 120 & E 120

Cables ≤ Ø 21mm, in a bundle ≤ Ø100mm, with collars ≤ Ø110mm at ≥ 50mm height
EI 90 & E 90

Cables ≤ Ø 21mm, in a bundle ≤ Ø160mm, with collars ≤ Ø160mm at ≥ 60mm height
EI 180 & E 180

Cables ≤ Ø 80mm, in a bundle ≤ Ø125mm, with collars Ø125mm at ≥ 60mm height
EI 60 & E 90

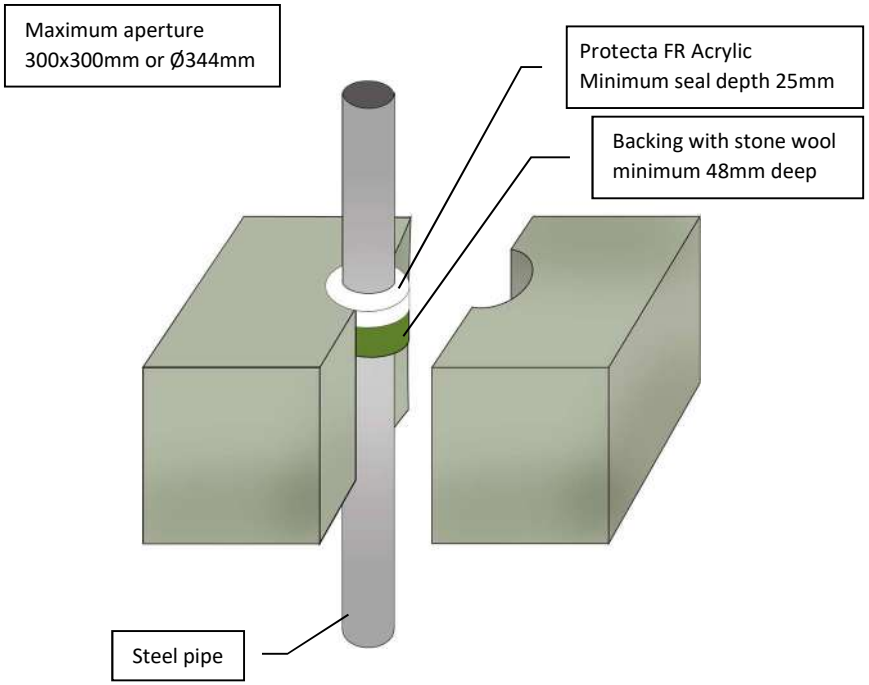
Sound reduction (seal only) 58dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/5/24
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Steel pipe ≤ Ø16mm	EI 120 C/U & E 120
Steel pipe ≤ Ø324mm	E 120 C/U
Sound reduction (seal only)	Rw 62 dB

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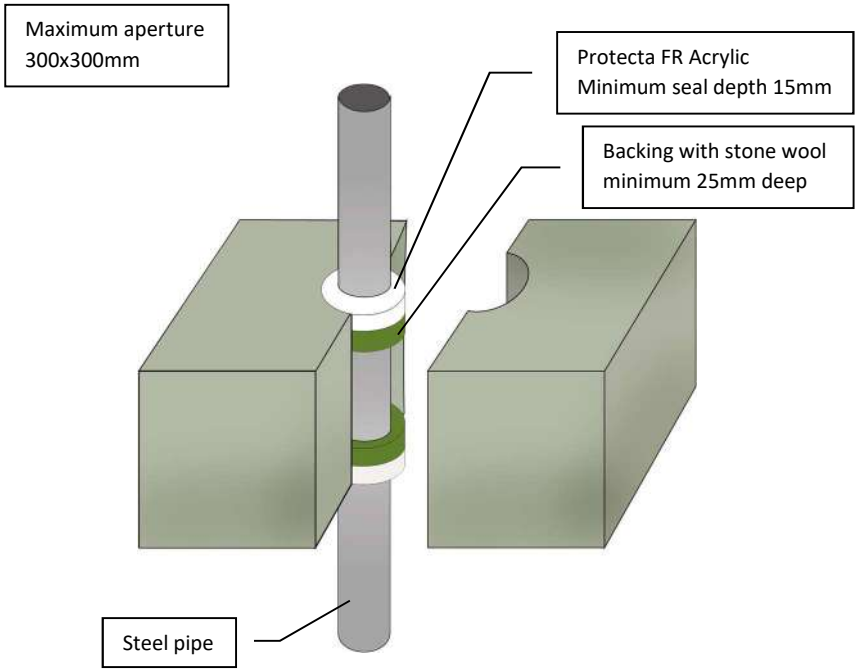
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Signed and approved:

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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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Steel pipe ≤ Ø63mm

EI 30 C/U & E 240

Sound reduction (seal only)

Rw 62 dB

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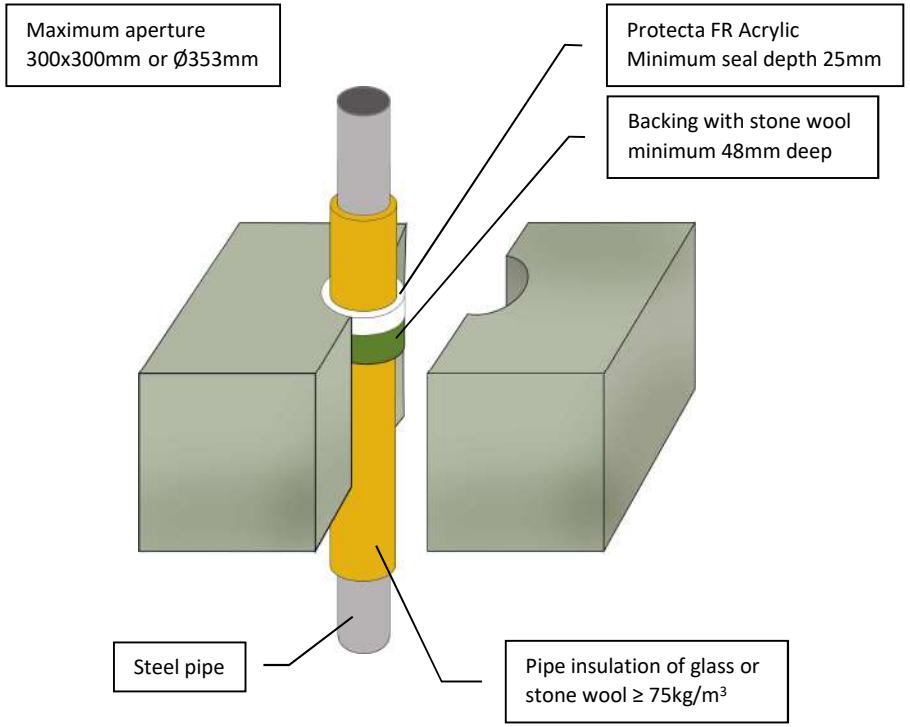
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 2/4/21
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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø273mm with 30mm thick continuous pipe insulation

EI 90 C/C & E 120

Sound reduction (seal only)

Rw 62dB

Polyseam Ltd, 15 St Andrews Road,
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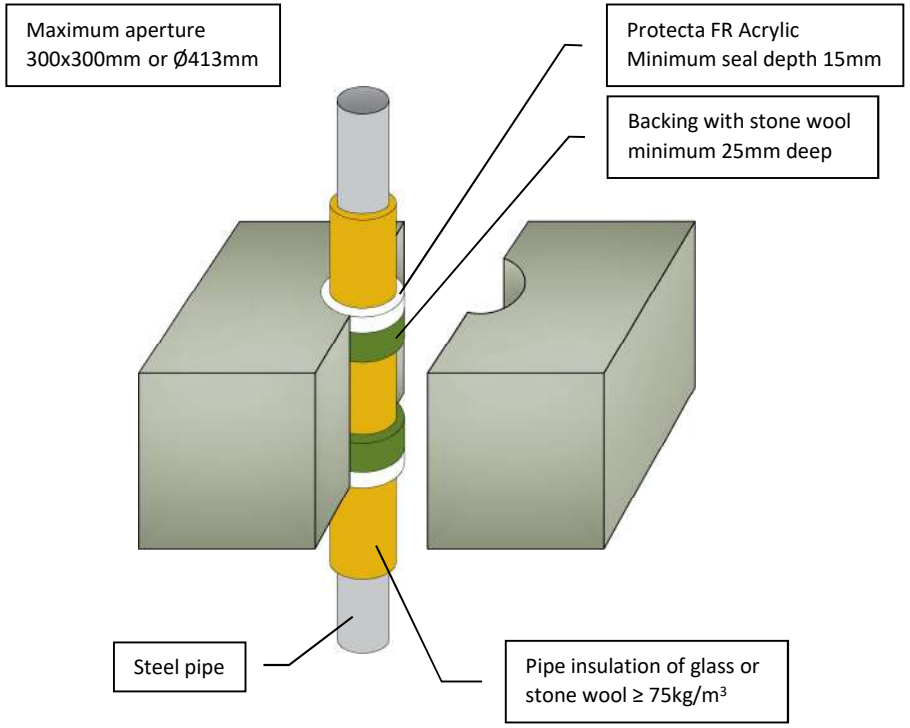
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/3/24
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 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with 20 - 60mm thick continuous pipe insulation
EI 120 C/C & E 120

Steel pipe ≤ Ø273mm with 30 - 60mm thick continuous pipe insulation
EI 60 C/U & E 60

Sound reduction (seal only)
Rw 62dB

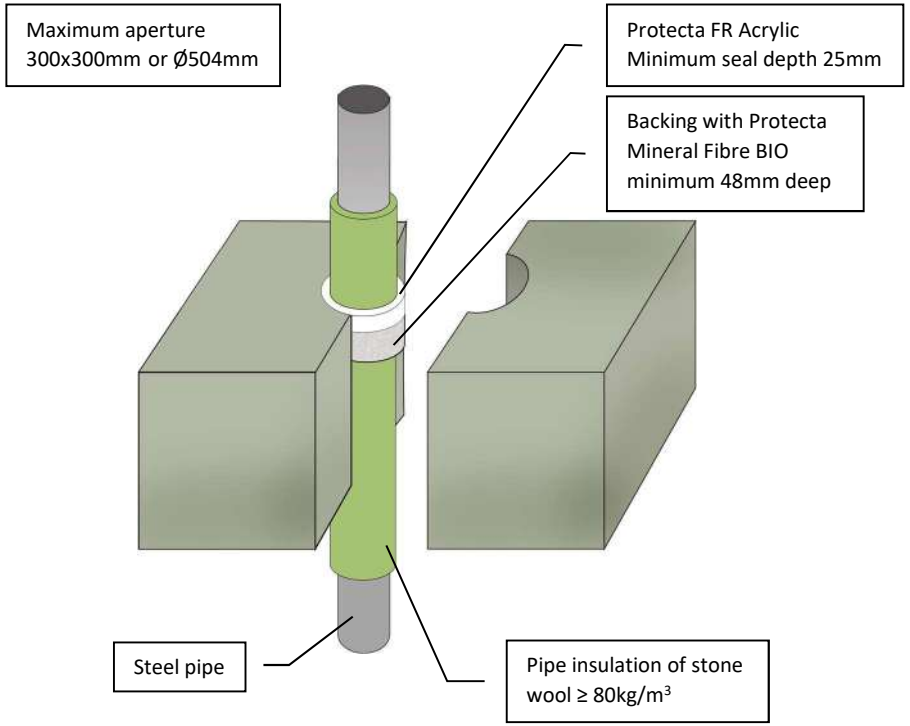
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Scale: **NTS**	Drawn by: K.B

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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø324mm with 20 - 80mm thick continuous pipe insulation

EI 240 C/U & E 240

Sound reduction (seal only)

Rw 62dB

Protecta®

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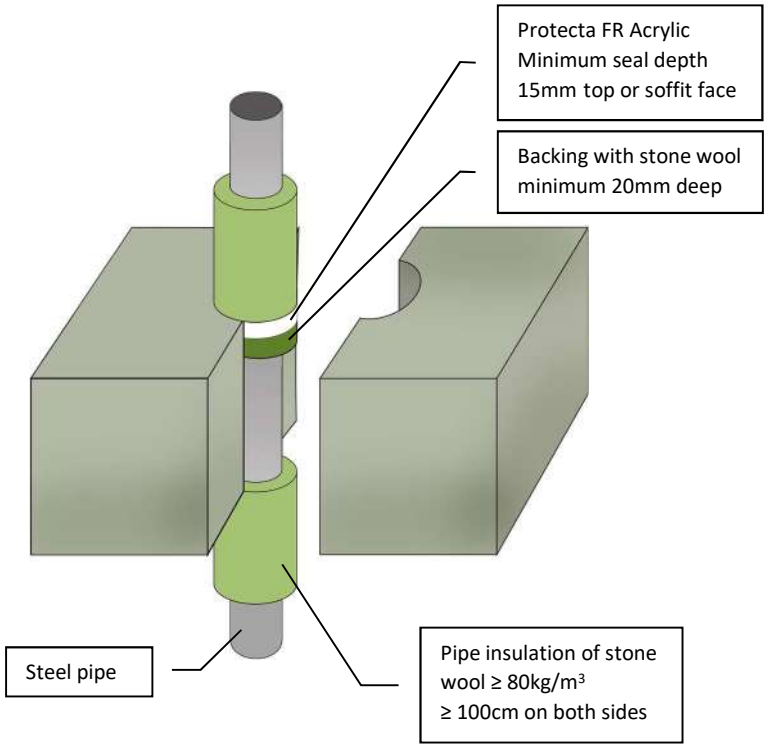
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 20/1/17
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
4. When installing Protecta® FR Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735 UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation and annular ring width approx. 10mm
EI 240 C/U & E 240

Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation in maximum aperture 300x300mm
EI 60 C/U & E 90

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation in maximum aperture 300x300mm
EI 60 C/U & E 90

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation and annular ring width approx. 10mm
EI 90 C/U & E 240

Sound reduction (seal only) Rw 62dB

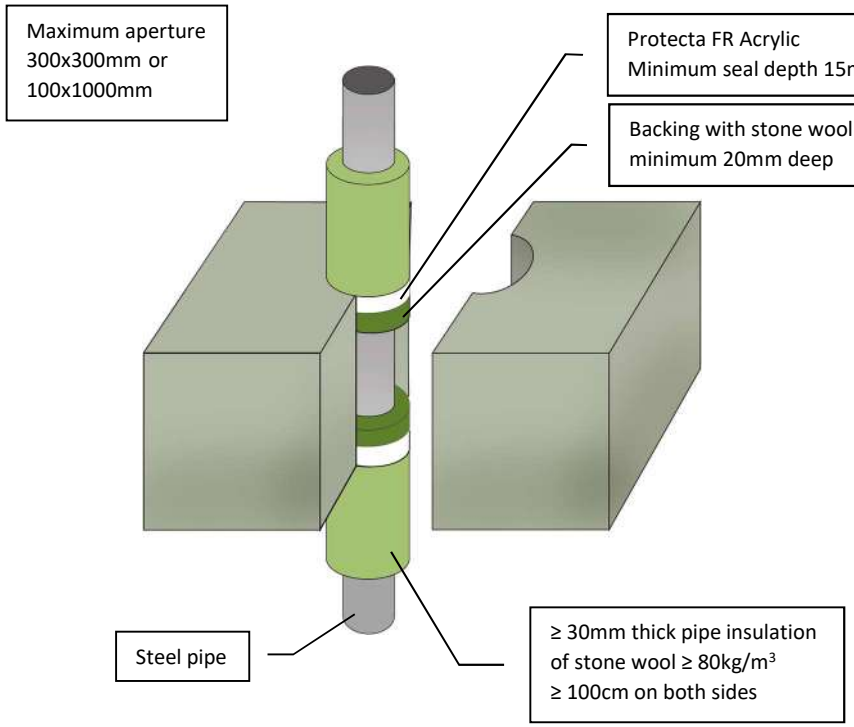
Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 27/4/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø219mm

EI 120 C/U & E 240

Sound reduction (seal only)

Rw 62dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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Signed and approved:

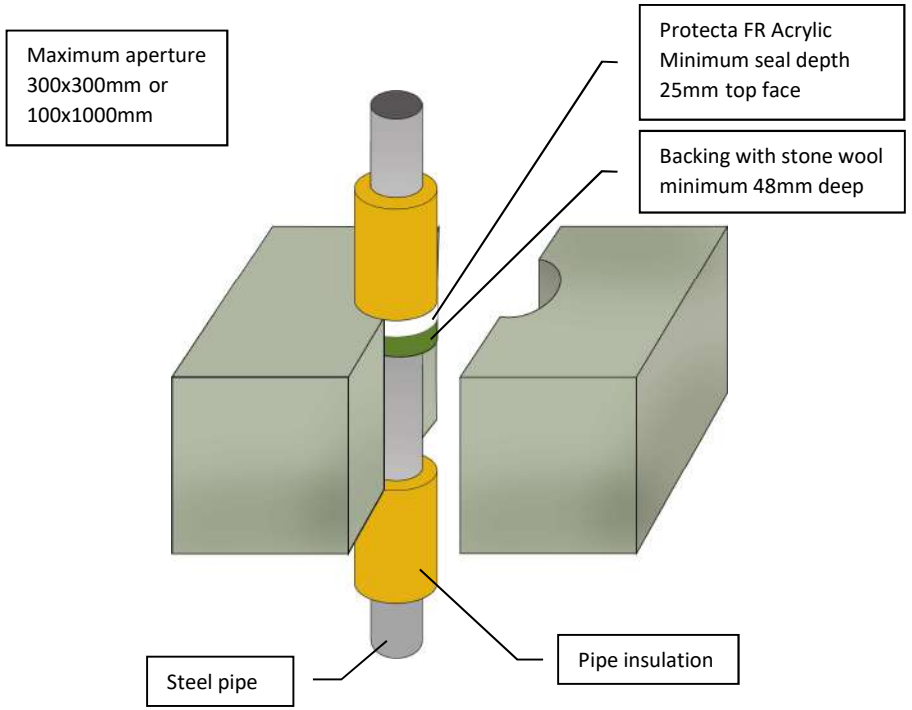
Sheet size: **A4**	Drawn date & no: 4/3/15
Scale: **NTS**	Drawn by: K.B

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5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

ETA 22/0735

UKTA 22/0031



Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of glass- or stone wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 180 C/C & E 180

Steel pipe ≤ Ø219mm with ≥ 30mm thick stone wool pipe insulation ≥ 80kg/m³ ≥ 100cm on both sides — EI 90 C/U & E 120

Steel pipe ≤ Ø273mm with ≥ 30mm thick glass- or stone wool pipe insulation ≥ 75kg/m³ ≥ 50cm on both sides — EI 60 C/C & E 180

Sound reduction (seal only) — Rw 62dB

Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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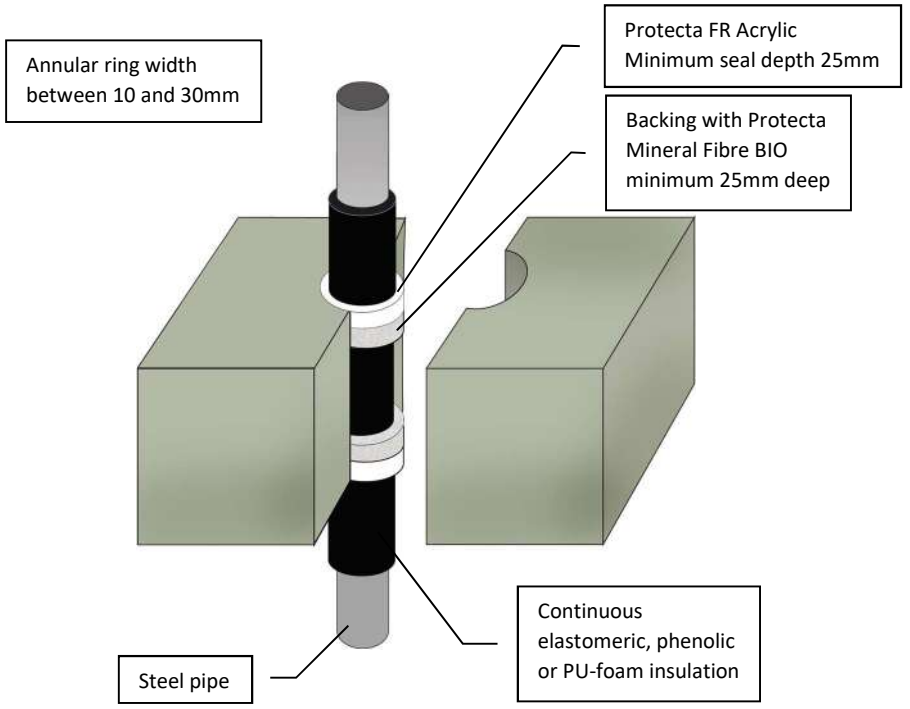
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

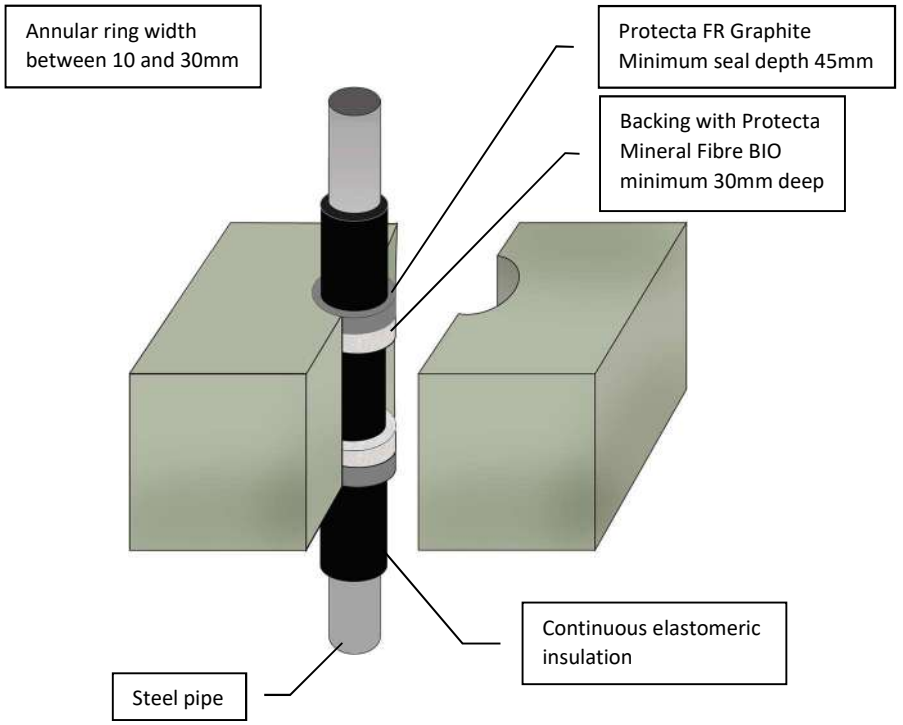
Steel pipe ≤ Ø12mm with 9mm thick pipe insulation	EI 180 C/C & E 240
Steel pipe ≤ Ø40mm with 13 – 19mm thick pipe insulation	EI 180 C/U & E 180
Steel pipe ≤ Ø54mm with 9 - 13mm thick pipe insulation	EI 120 C/C & E 180
Steel pipe ≤ Ø54mm with 20 - 25mm thick pipe insulation	EI 60 C/C & E 90
Steel pipe ≤ Ø165mm with 13 - 19mm thick pipe insulation	EI 60 C/U & E 60
Sound reduction (seal only)	Rw 62dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3.

Fire & Sound classification

Steel pipe ≤ Ø324mm with 25 – 49mm thick pipe insulation

EI 60 C/U & E 60

Steel pipe ≤ Ø324mm with 50mm thick pipe insulation

EI 120 C/U & E 120

Sound reduction (seal only)

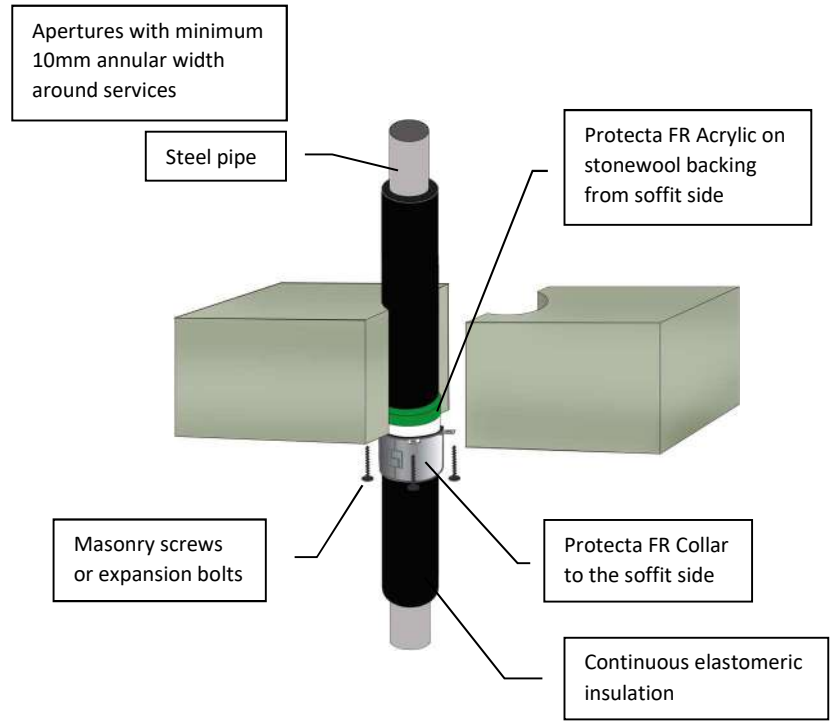
Rw 53dB

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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø42mm with 9mm thick pipe insulation with ≤ Ø63mm FR Collar at 50mm height — EI 120 C/C & E 120

Steel pipe ≤ Ø42mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-160mm at 60mm height — EI 60 C/C & E 60

Steel pipe ≤ Ø54mm with 19mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 62dB

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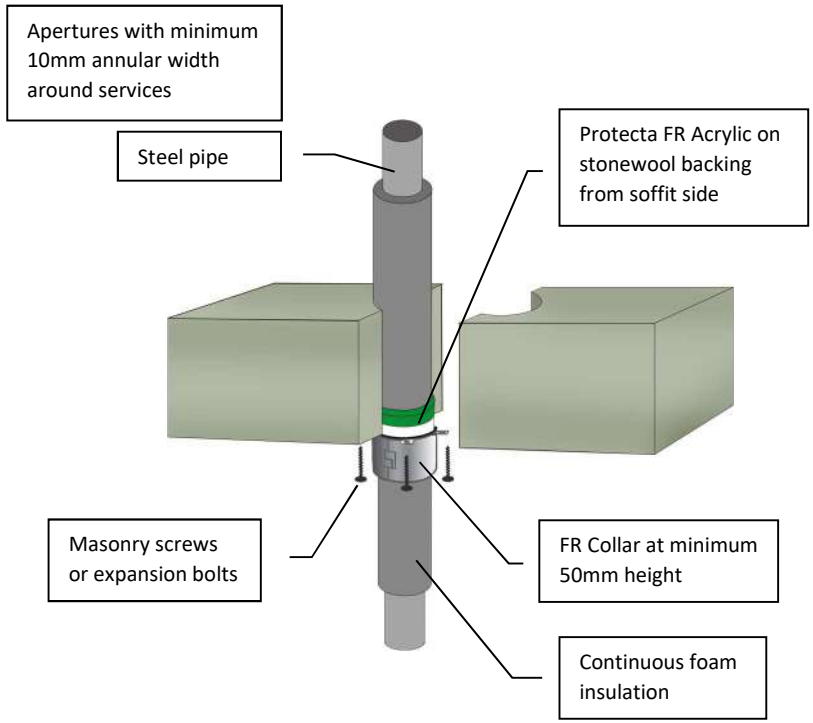
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 20/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of steel pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with 20mm thick PE insulation	E 120 C/C
Steel pipe ≤ Ø54mm with 40mm thick PU insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 58 dB

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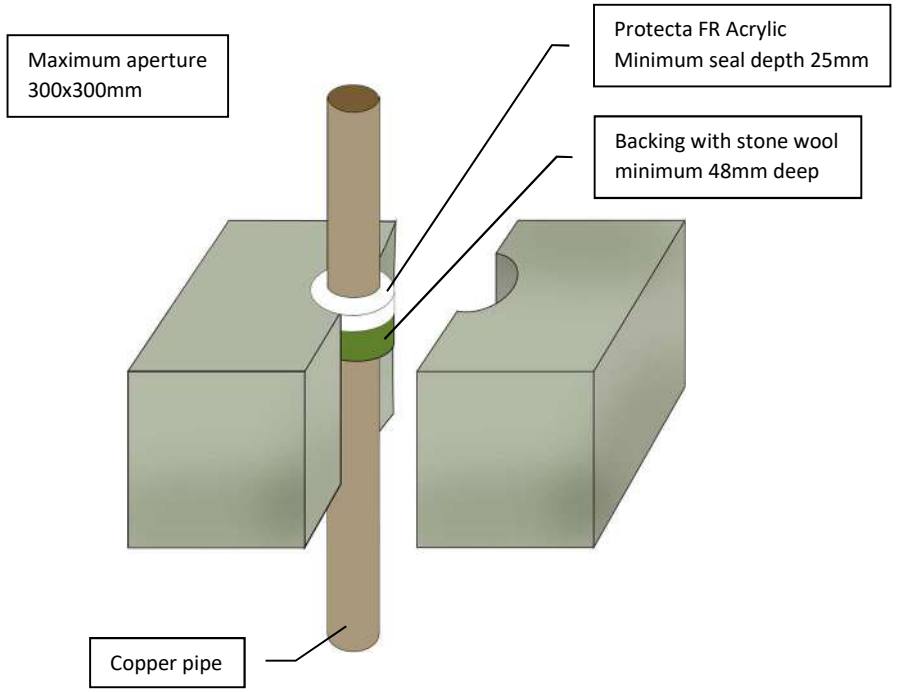
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 25/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø6mm	EI 120 C/C & E 120
Copper pipe ≤ Ø15mm	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm	E 120 C/C
Sound reduction (seal only)	Rw 62 dB

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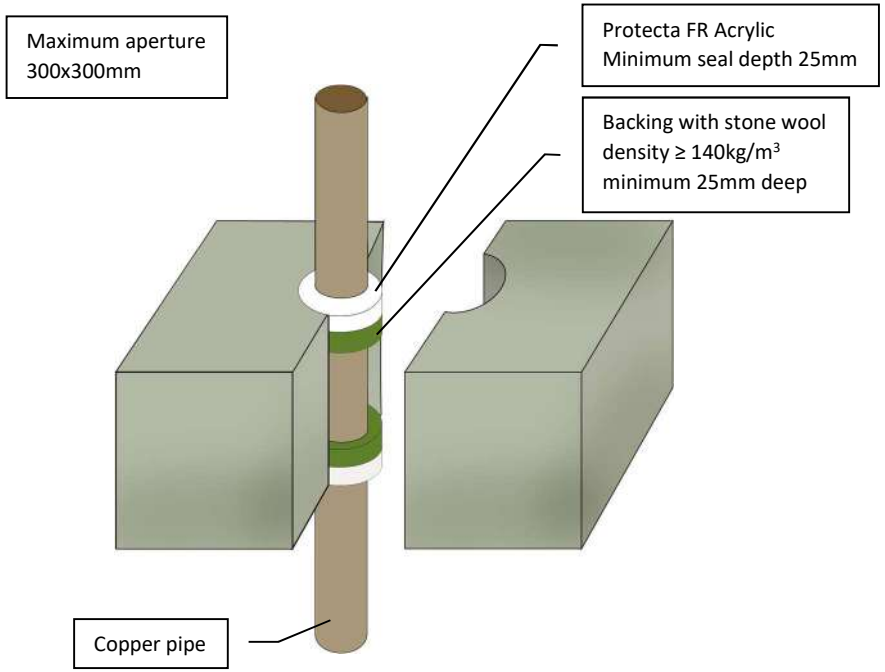
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm

EI 20 C/U & E 120

Sound reduction (seal only)

Rw 62 dB

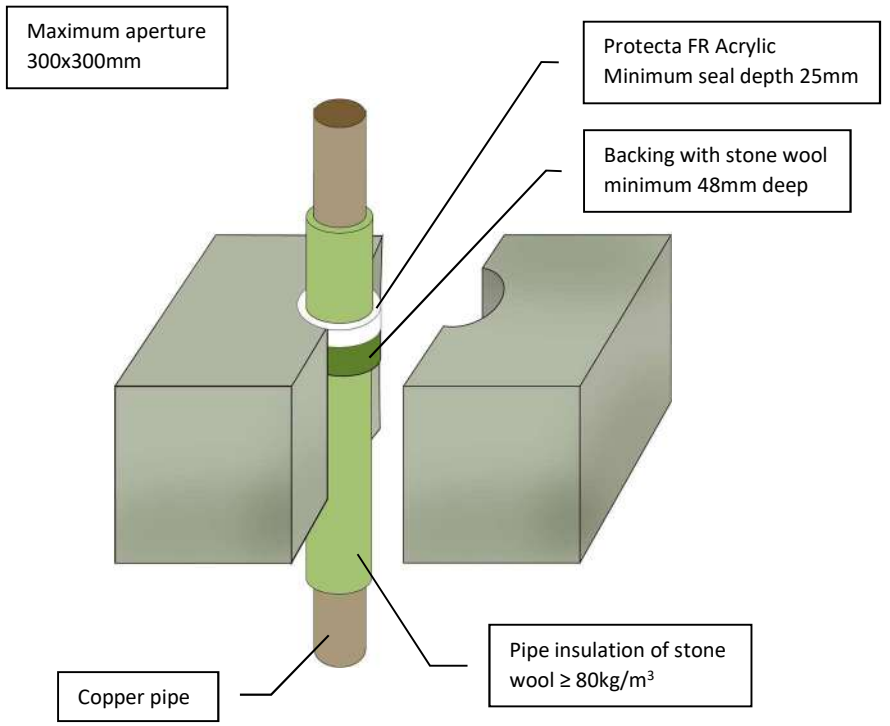
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Sheet size: **A4**	Drawn date & no: 4/3/15
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3. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with 20 - 80mm thick continuous pipe insulation
EI 240 C/C & E 240

Copper pipe ≤ Ø54mm with 20 - 80mm thick continuous pipe insulation
EI 180 C/C & E 240

Sound reduction (seal only)
Rw 62dB

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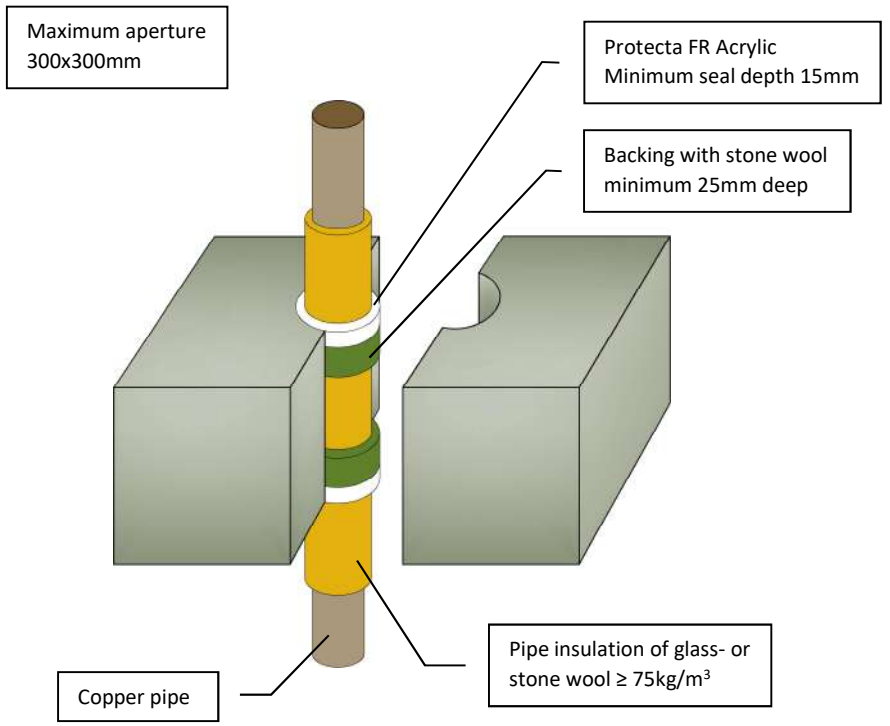
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/8/19
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.
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ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20 - 60mm thick continuous pipe insulation

EI 120 C/C & E 120

Sound reduction (seal only)

Rw 62dB

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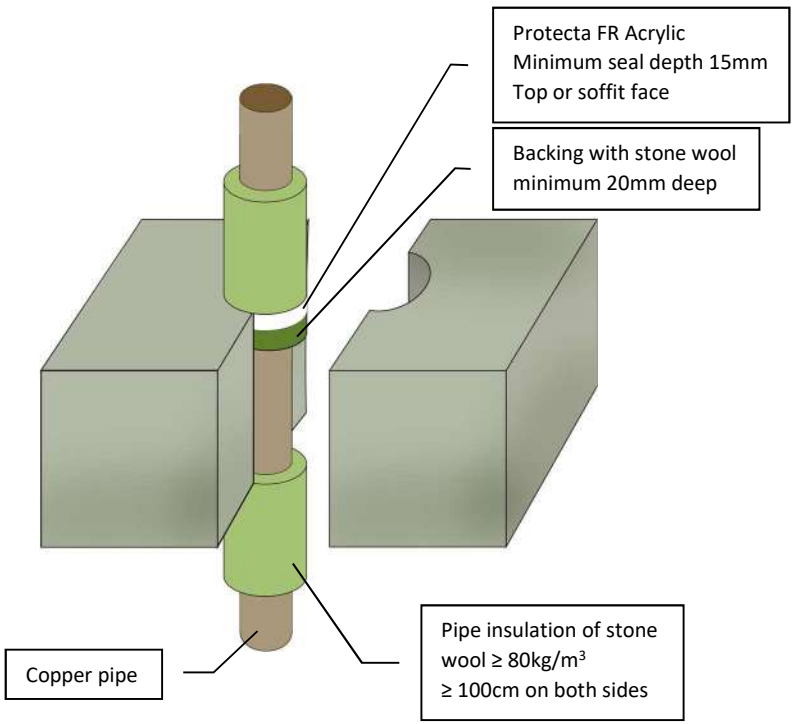
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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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.
4. When installing Protecta® FR Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

ETA 22/0735

UKTA 22/0031



Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with ≥ 20mm thick pipe insulation and annular ring width approx. 10mm
EI 240 C/U & E 240

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation in maximum aperture 300x300mm
EI 60 C/U & E 90

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation and annular ring width approx. 10mm
EI 180 C/U & E 240

Sound reduction (seal only) Rw 62 dB

Protecta®

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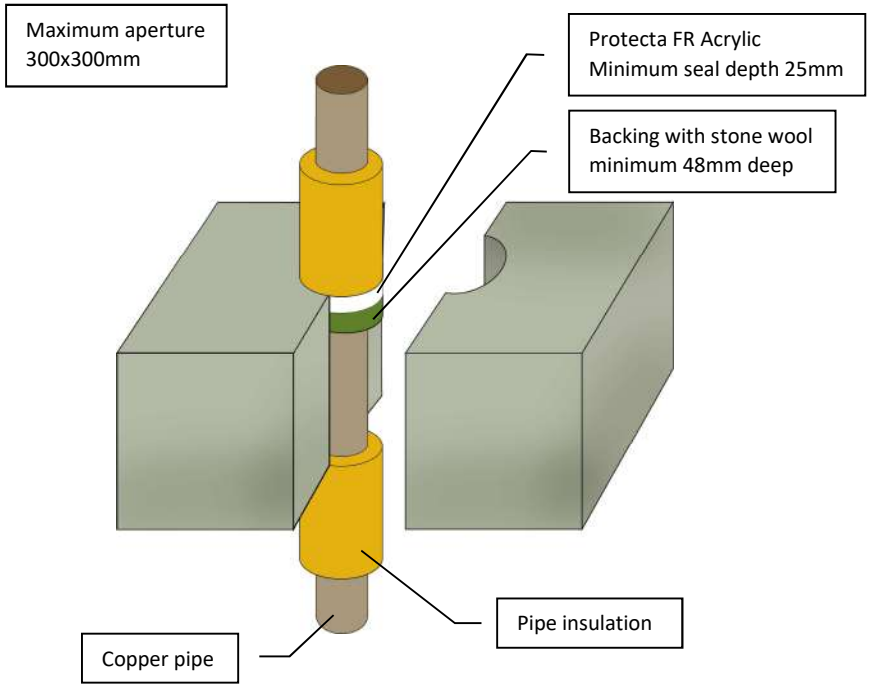
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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Scale: **NTS**	Drawn by: K.B

Installation Instructions

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5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of glass- or stone wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 180 C/C & E 180

Copper pipe ≤ Ø108mm with ≥ 30mm thick pipe insulation of glass- or stone wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 30 C/U & E 180

Copper pipe ≤ Ø159mm with ≥ 30mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 100cm on both sides — EI 20 C/C & E 90

Sound reduction (seal only) — Rw 62dB

Protecta®
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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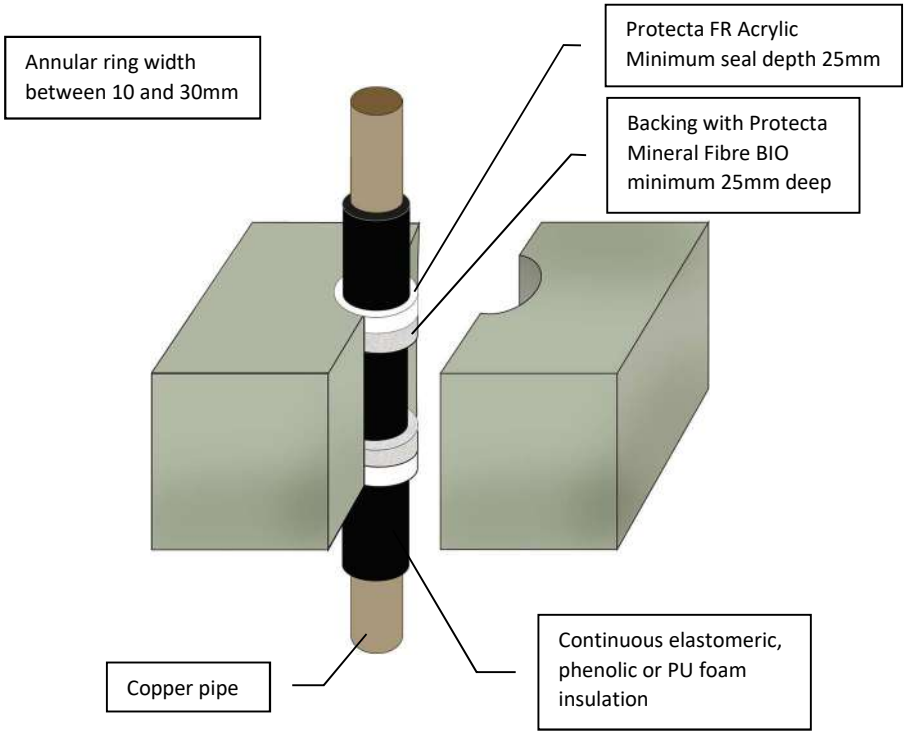
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø12mm with 9mm thick pipe insulation	EI 180 C/C & E 240
Copper pipe ≤ Ø54mm with 9 - 13mm thick pipe insulation	EI 120 C/C & E 180
Copper pipe ≤ Ø54mm with 14 - 25mm thick pipe insulation	EI 60 C/C & E 90
Sound reduction (seal only)	Rw 62dB

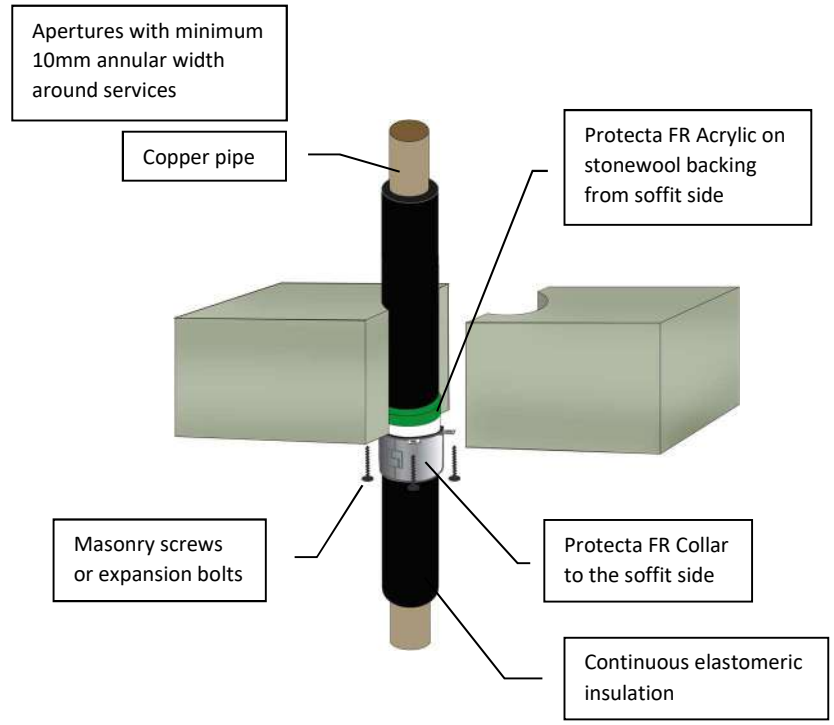
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipe ≤ Ø42mm with 9mm thick pipe insulation with ≤ Ø63mm FR Collar at 50mm height — EI 120 C/C & E 120

Copper pipe ≤ Ø42mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-160mm at 60mm height — EI 60 C/C & E 60

Copper pipe ≤ Ø54mm with 19mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 60 C/C & E 120

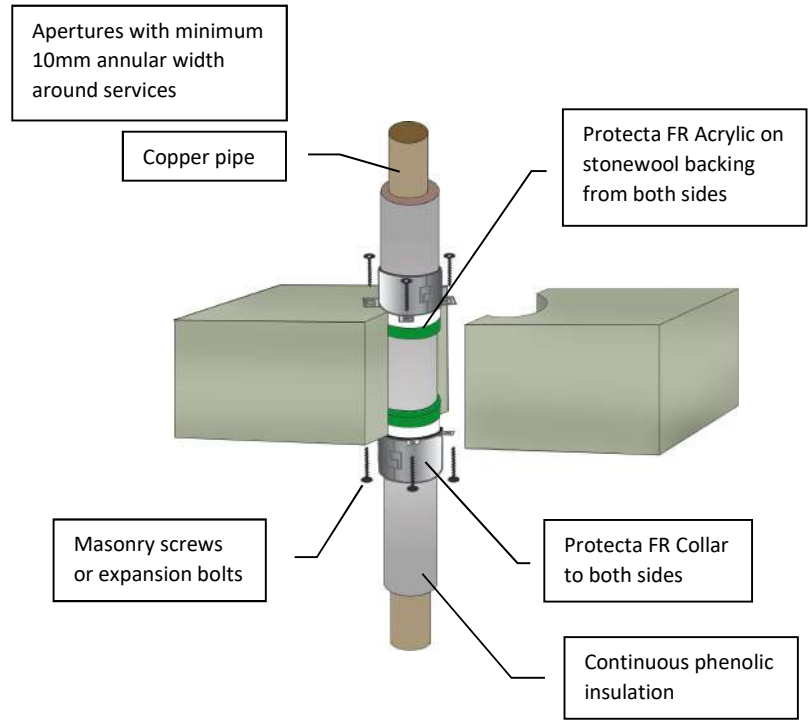
Sound reduction (seal only) — Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 20/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø158mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 45 C/C & E 120

Copper pipe Ø159mm with 25mm thick pipe insulation with FR Collar at minimum 50mm height — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 58dB

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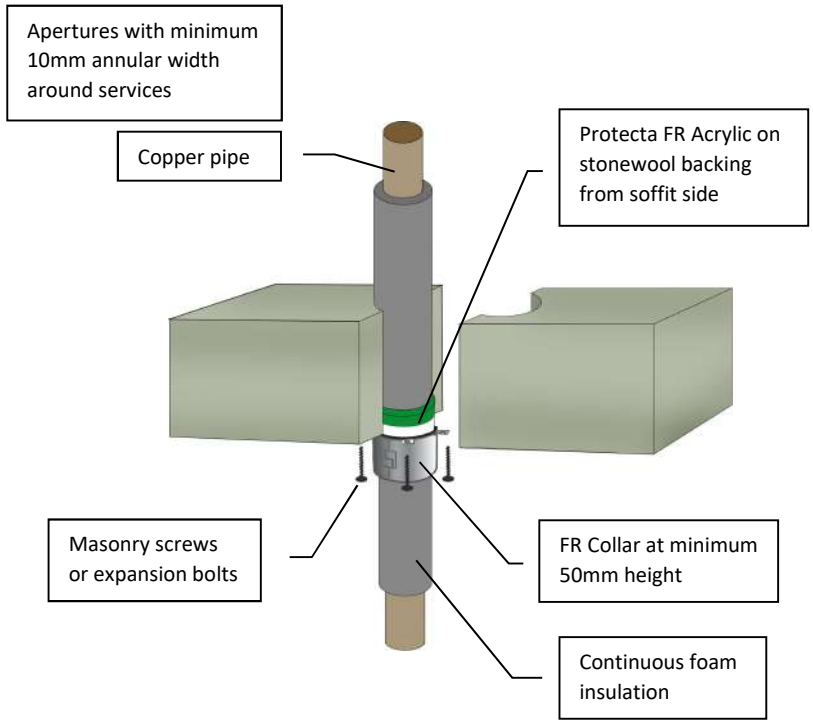
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 25/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Stonewool
Application	Fire stopping of copper pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20mm thick PE insulation E 120 C/C

Copper pipe ≤ Ø54mm with 40mm thick PU insulation EI 60 C/C & E 60

Sound reduction (seal only) Rw 58 dB

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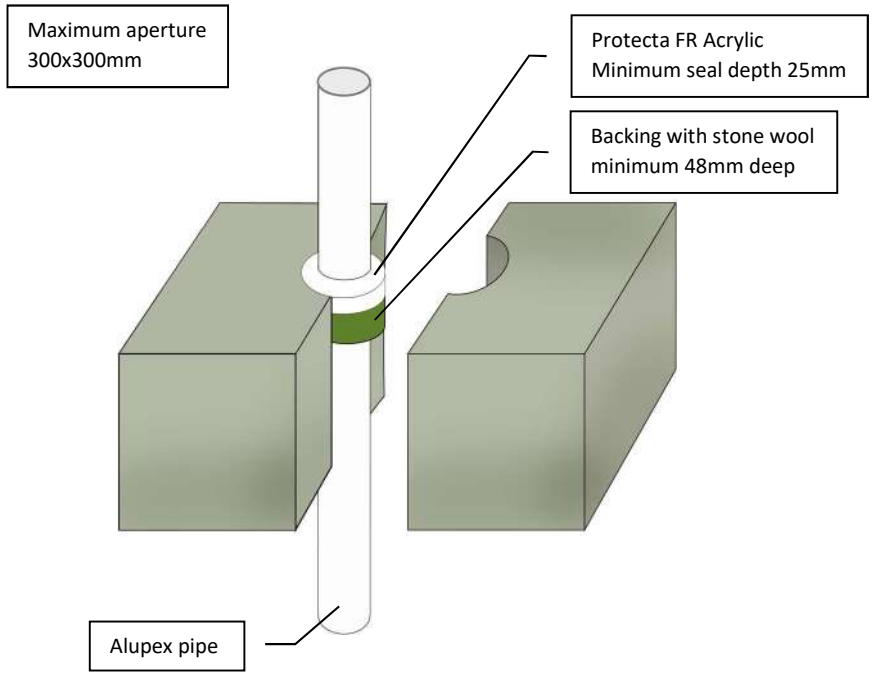
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Alupex pipe ≤ Ø20mm
EI 120 C/C & E 120

Alupex pipe ≤ Ø75mm
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 62 dB

Protecta®

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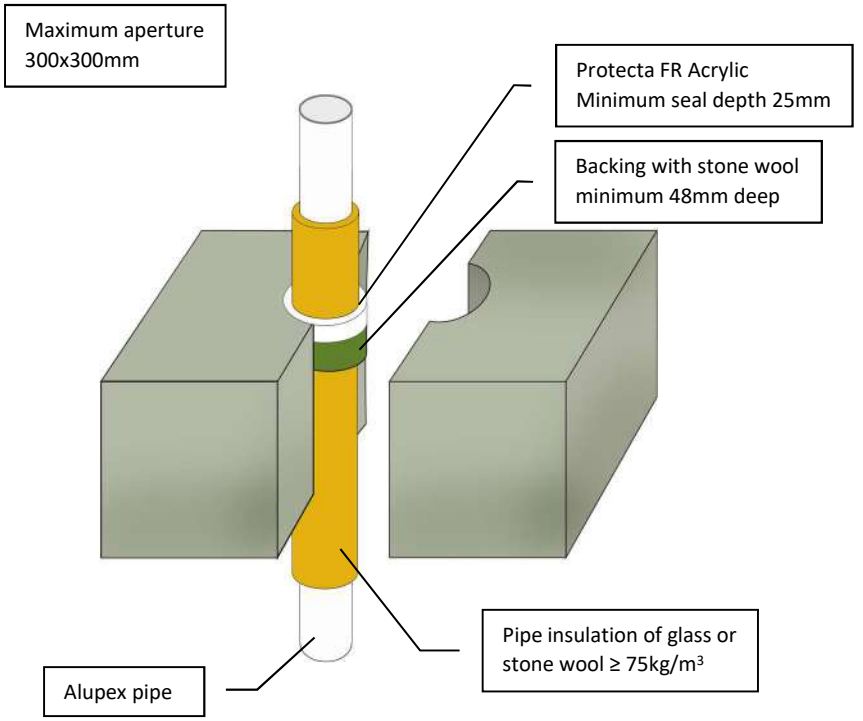
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stonewool
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 20 - 50mm thick continuous pipe insulation
EI 120 C/C & E 180

Alupex pipe ≤ Ø75mm with 60mm thick continuous pipe insulation
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 62dB

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Signed and approved:

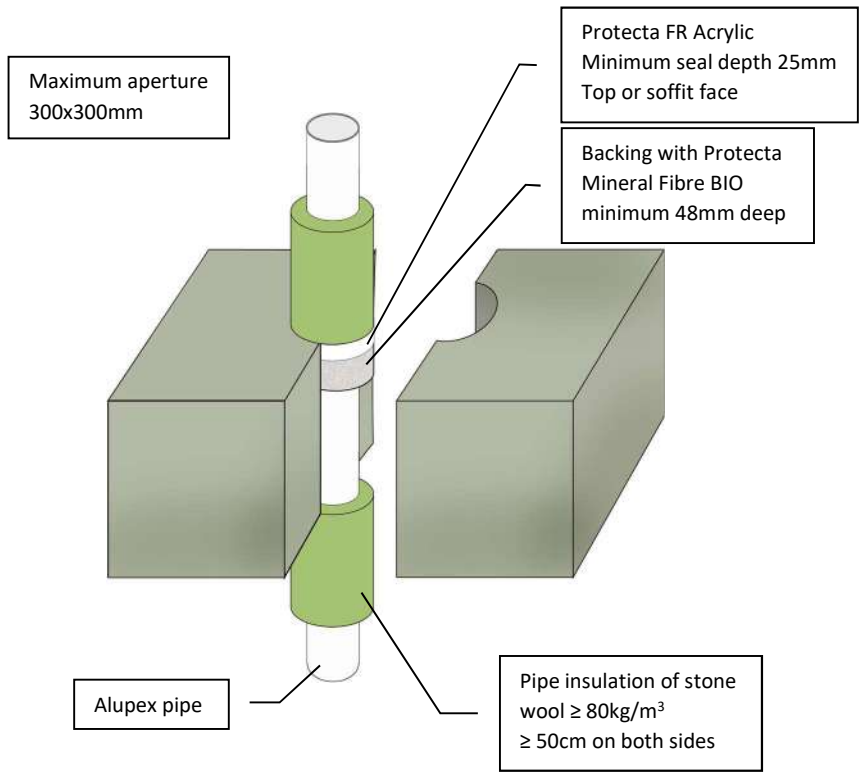
Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
4. When installing Protecta® FR Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

ETA 22/0735

UKTA 22/0031



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with ≥ 20mm thick pipe insulation

EI 240 C/C & E 240

Sound reduction (seal only)

Rw 62dB

Protecta®

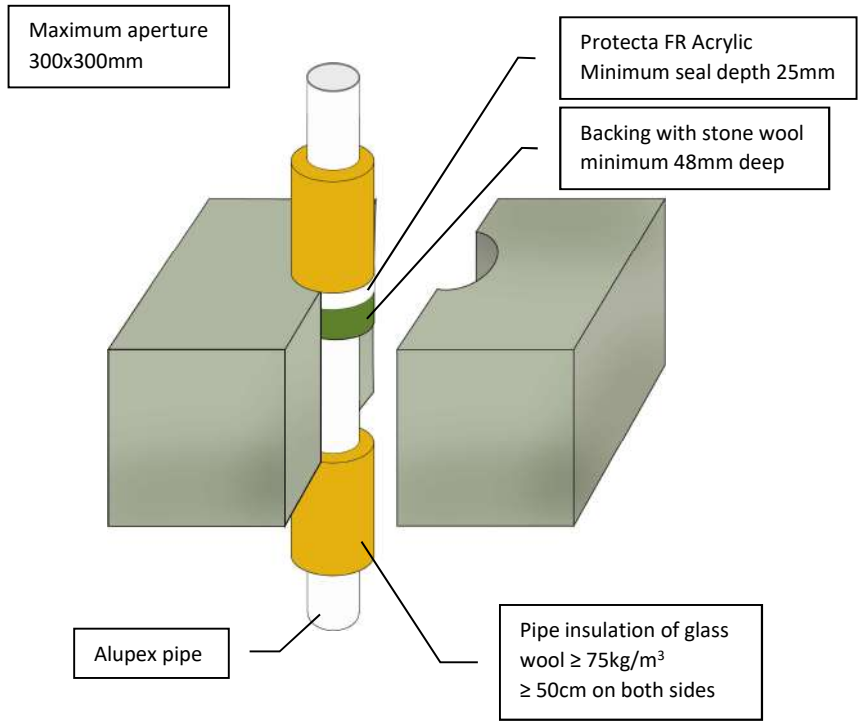
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 4/3/15
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. 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.
4. When installing Protecta® FR Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

ETA 22/0735 UKTA 22/0031



Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with ≥ 20mm thick pipe insulation
EI 180 C/C & E 180

Alupex pipe ≤ Ø75mm with ≥ 25mm thick pipe insulation
EI 120 C/C & E 180

Sound reduction (seal only)
Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
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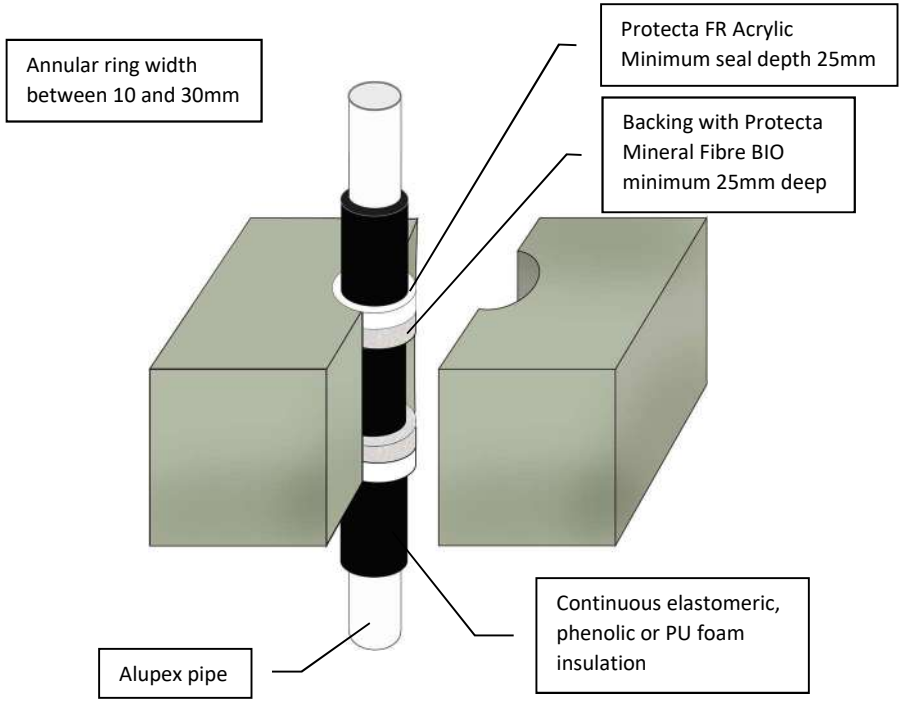
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/3/24
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.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 9mm thick pipe insulation	EI 180 C/C & E 180
Alupex pipe ≤ Ø75mm with 9 - 13mm thick pipe insulation	EI 60 C/C & E 120
Alupex pipe ≤ Ø75mm with 14 - 25mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

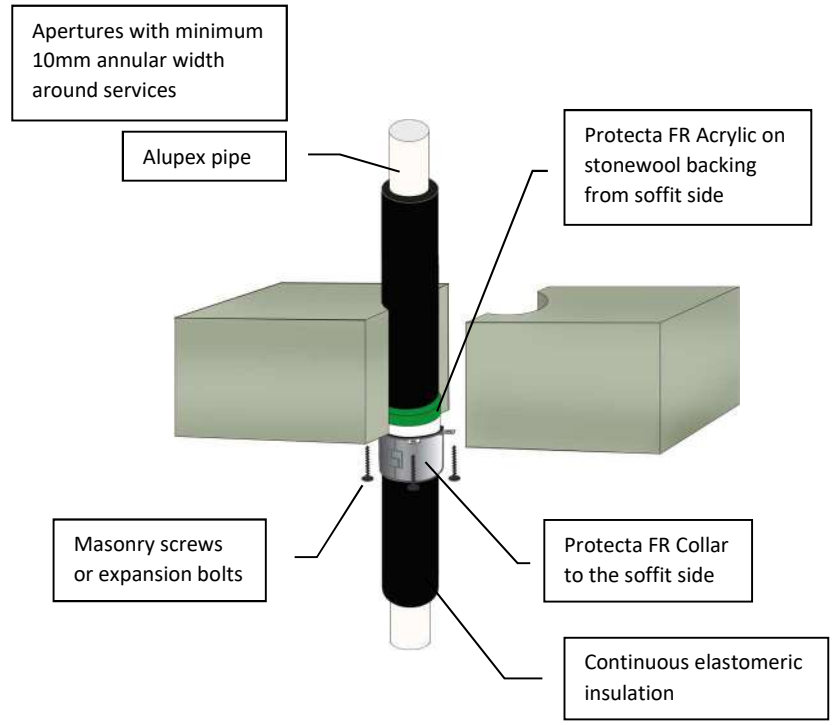
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of alupex pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height — EI 120 C/C & E 120

Alupex pipe ≤ Ø75mm with 10 – 50mm thick pipe insulation with ≤ Ø110mm FR Collar at 50mm height, or Ø125-200mm at 60mm height — EI 90 C/C & E 120

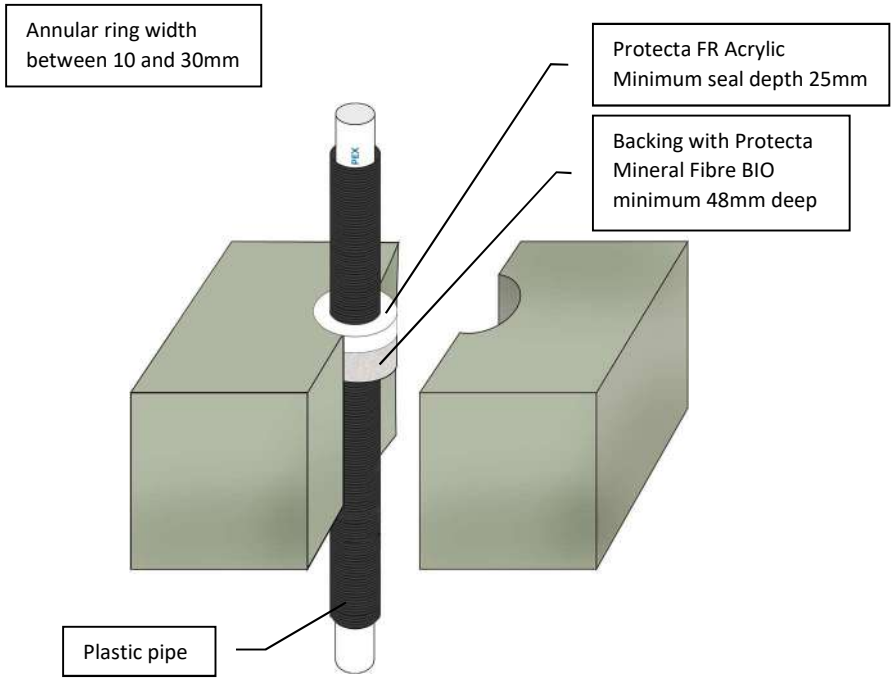
Sound reduction (seal only) — Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 20/8/21
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of PEX plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø25mm
EI 90 C/C & E 90

Sound reduction (seal only)
Rw 62dB

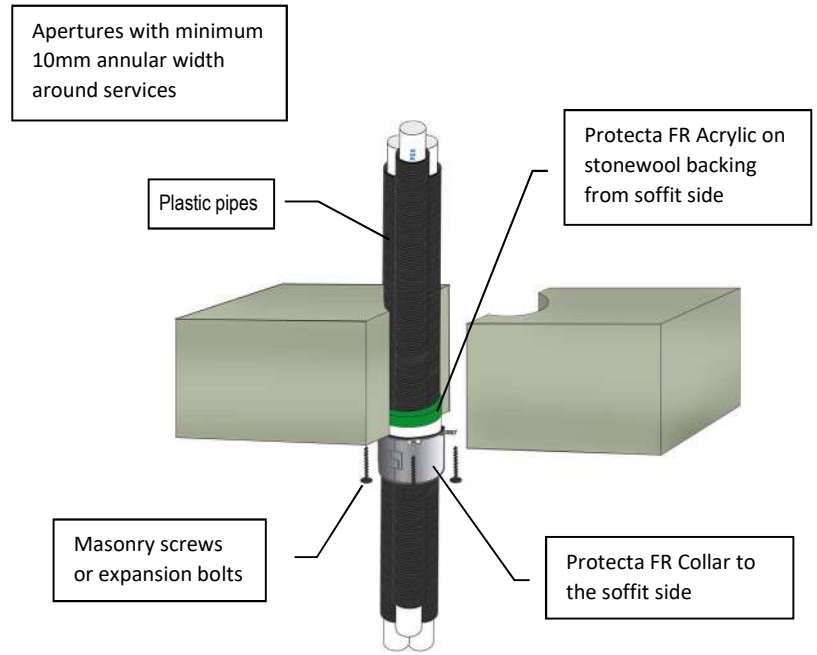
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 4/3/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the bundled pipes and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipes and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of PEX plastic pipe-in-pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PEX pipes ≤ Ø25mm, single or in a bundle ≤ Ø50mm, with collars at ≥ 50mm height
EI 90 C/C & E 90

PEX pipes ≤ Ø 54mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 C/C & E 60

Sound reduction (seal only)
Rw 62dB

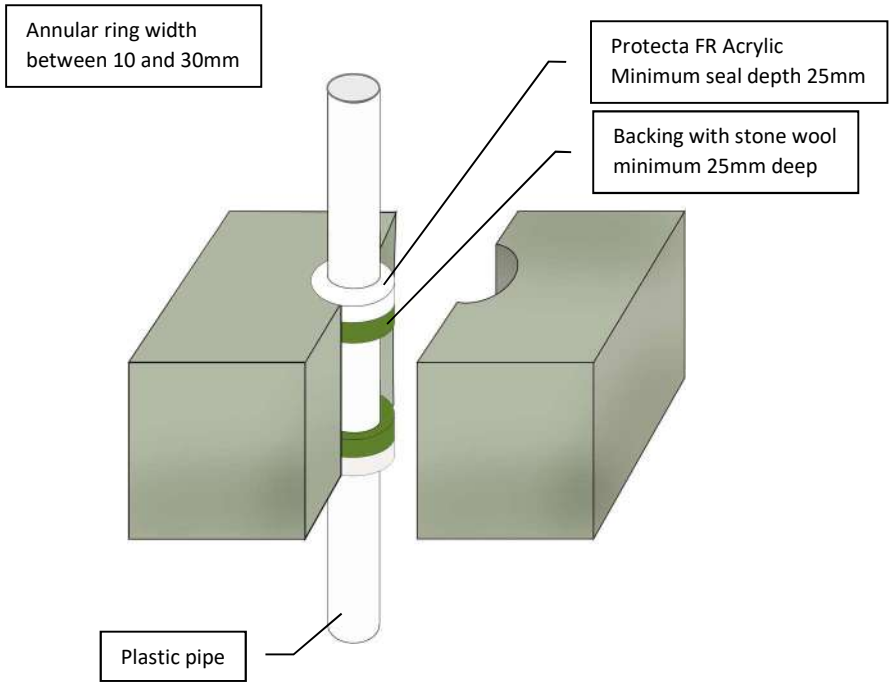
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 25/5/24
Scale: **NTS**	Drawn by: K.B

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 22/0735

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PVC-U or PVC-C pipe ≤ Ø50mm with wall thickness 1.6 - 3.7mm — EI 240 U/C & E 240

PE, ABS or SAN+PVC pipe ≤ Ø40mm with wall thickness 2.0 – 3.7mm — EI 240 U/C & E 240

PP pipe ≤ Ø 12mm with wall thickness 1.2mm — EI 240 U/C & E 240

PP pipe ≤ Ø40mm with wall thickness 1.2 – 3.7mm — EI 180 U/C & E 180

PP pipe ≤ Ø75mm with wall thickness 1.2 - 6.8mm — EI 90 U/C & E 90

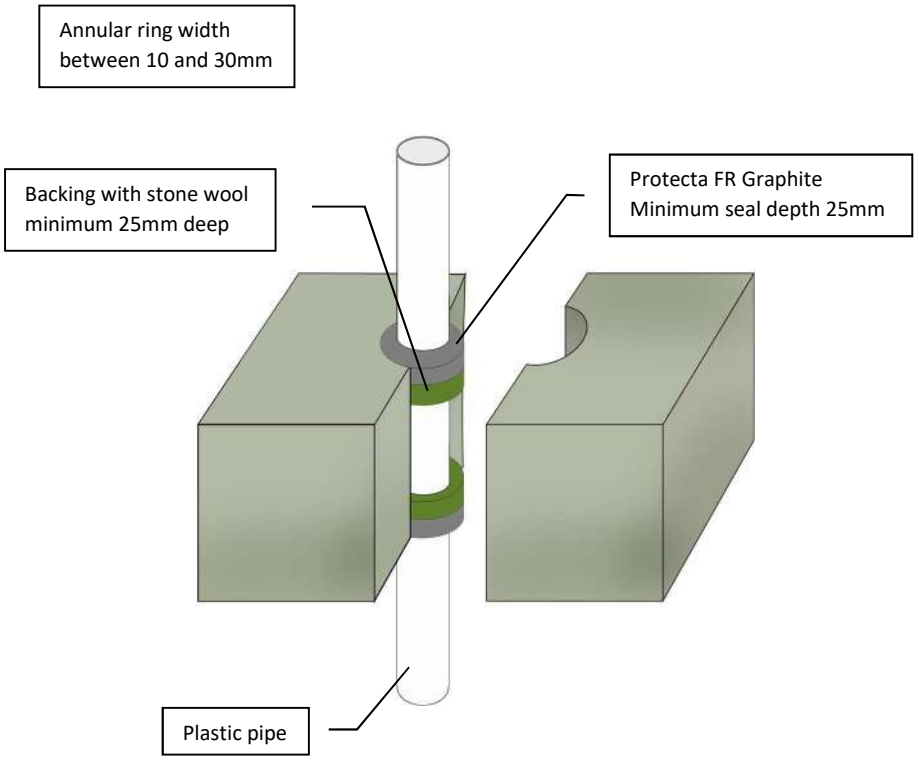
Sound reduction (seal only) — Rw 62dB

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Tel: +44 (0) 148 4421036
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Sheet size:	Drawn date & no:
A4	10/3/24
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

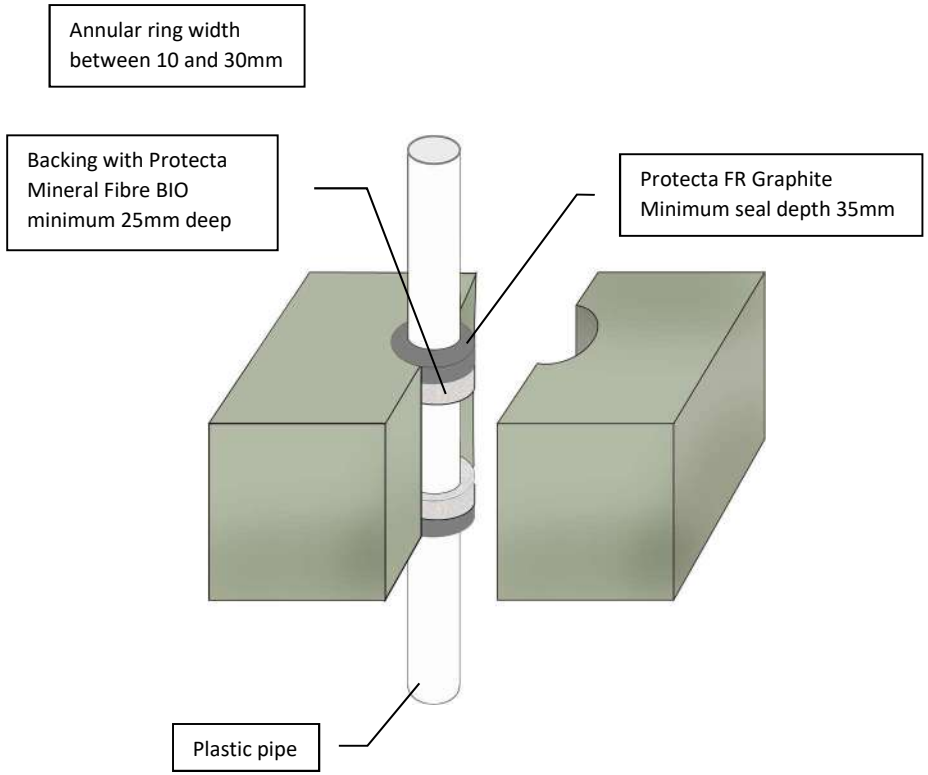
PVC pipe ≤ 40 mm diameter with wall thickness 1.8 – 3.7mm	EI 240 U/U
PVC pipe ≤ 110 mm diameter with wall thickness 1.8 – 6.6mm	EI 90 C/U
PE, ABS or SAN+PVC pipe ≤ 40 mm diameter with wall thickness 2.4-3.7mm	EI 60 U/U & EI 240 U/C
PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 2.4 – 4.2mm	EI 60 U/C
PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 4.3 – 10.0mm	EI 90 U/C
PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 10.0mm	EI 60 U/U
PP pipe ≤ 40 mm diameter with wall thickness 1.8mm	EI 120 C/C
PP pipe ≤ 110 mm diameter with wall thickness 1.8 – 6.3mm	EI 30 U/C
Sound reduction (seal only)	53dB

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PVC pipe ≤ 160 mm diameter with wall thickness 4.0 – 9.5mm — EI 60 U/C

PE, ABS or SAN+PVC pipe ≤ 160 mm diameter with wall thickness 4.9 – 14.6mm — EI 30 U/C

PE, ABS or SAN+PVC pipe ≤ 160 mm diameter with wall thickness 14.6mm — EI 60 U/C

Sound reduction (seal only) — 53dB

Protecta®

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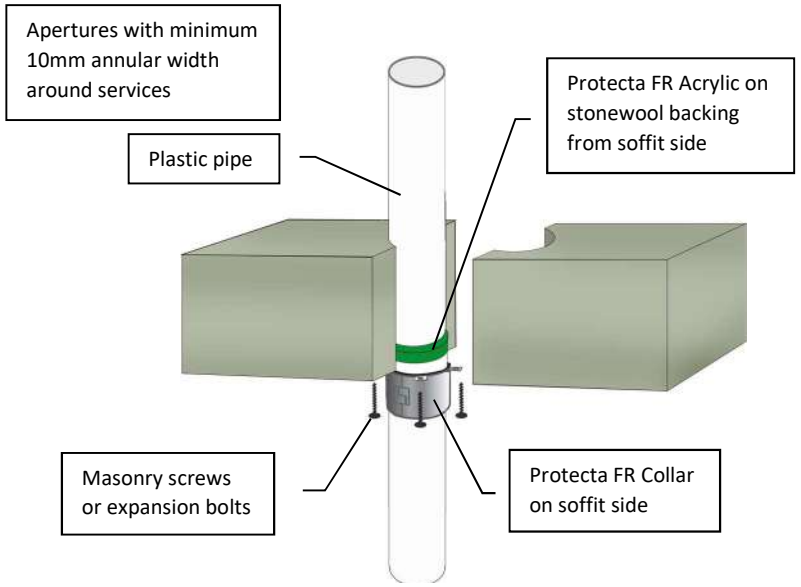
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Signed and approved:

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
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 floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Min. Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø90mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 90 U/C (E 120), EI 60 C/U
≤ Ø160mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 60 C/C (E 120)
≤ Ø315mm PVC-U & PVC-C	75mm	EI 60 C/C
Ø400x15.3mm PVC-U & PVC-C	100mm	EI 60 C/C
≤ Ø55mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 60 C/U, EI 60 U/U
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PE, ABS & SAN+PVC	60mm	EI 120 C/C (E 240)
≤ Ø250mm PE, ABS & SAN+PVC	75mm	EI 240 C/C
≤ Ø315mm PE, ABS & SAN+PVC	75mm	EI 90 C/C
Ø400x36.3mm PE, ABS & SAN+PVC	100mm	EI 90 C/C

Services	Min. Collar Height	Classification
≤ Ø50mm PP	30mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø50mm PP	50mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø110mm PP	50mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø140mm PP	60mm	EI 120 C/C, EI 120 U/C, EI 60 C/U, EI 60 U/U
≤ Ø160mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PP	60mm	EI 120 C/C
≤ Ø250mm PP	75mm	EI 60 C/C
Ø315x28.6mm PP	75mm	EI 60 C/C
≤ Ø400mm PP	100mm	EI 30 C/C

UKTA 22/0026

ETA 22/0752

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic
Stonewool

Application Fire stopping of plastic pipes in rigid floors

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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Scale:	Drawn by:
NTS	K.B

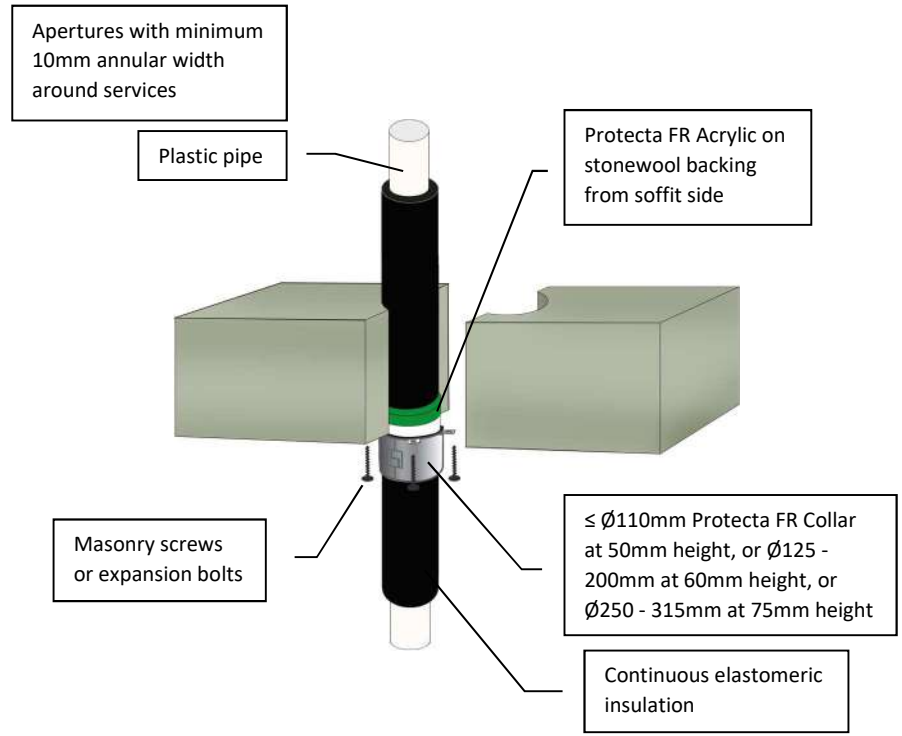
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipe insulation and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of insulated plastic pipes in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9mm thick pipe insulation
EI 180 C/C & E 180

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 10 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 9.1mm and 9 – 25mm thick pipe insulation
EI 120 C/C & E 180

PP pipe ≤ Ø160mm with wall thickness 1.8 – 9.1mm and 26 – 50mm thick pipe insulation
EI 60 C/C & E 60

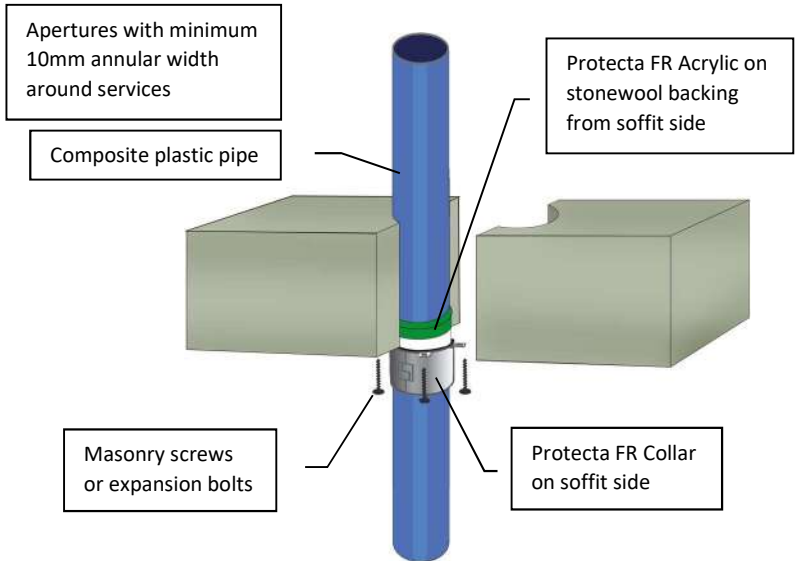
Sound reduction (seal only) Rw 62dB

Protecta®
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 25/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
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 floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 240 C/C (E 240)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 240 C/C (E 240)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 180 U/U (E 180)
≤ Ø110mm BluePower	50mm	EI 180 C/U (E 180)
Ø125mm BluePower	60mm	EI 180 C/U (E 180)
Ø160mm BluePower	60mm	EI 240 C/U (E 240)
≤ Ø50mm Geberit Silent-PP	50mm	EI 240 U/U (E 240)
≤ Ø110mm Geberit Silent-PP	50mm	EI 180 C/U (E 180)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 240 U/U (E 240)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 240 C/U (E 240)
Ø125mm Polo-Kal NG pipes	60mm	EI 240 U/C (E 240)
Ø160mm Polo-Kal NG pipes	60mm	EI 240 U/C (E 240 C/U)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 240 U/U (E 240)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 120 C/U (E 120)
Ø125mm Rehau Raupiano Plus	60mm	EI 180 C/U (E 180)

Services	Minimum Collar Height	Classification
Ø160mm Rehau Raupiano Plus	60mm	EI 240 U/C (E 240 C/U)
Ø 50mm Uponor Decibel	50mm	EI 180 U/U (E 180)
≤ Ø110mm Uponor Decibel	50mm	EI 120 C/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 240 U/U (E 240)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 60)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 60)
≤ Ø200mm Wavin AS+	60mm	EI 240 U/C (E 240)
≤ Ø50mm Wavin SiTech	50mm	EI 240 U/U (E 240)
≤ Ø110mm Wavin SiTech	50mm	EI 180 C/U (E 180)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic
Stonewool

Application Fire stopping of composite plastic pipes in rigid floors

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

Fire & Sound classification

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

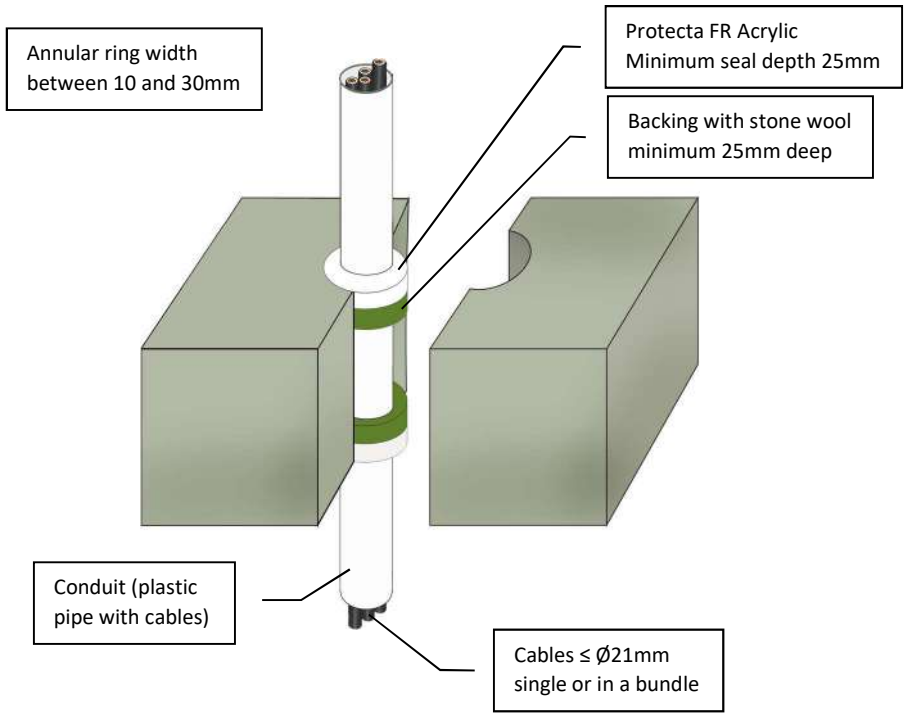
Sound reduction (seal only)
Rw 62dB

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Sheet size:	Drawn date & no:
A4	25/5/24
Scale:	Drawn by:
NTS	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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of conduits in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PVC-U & PVC-C conduit/pipe ≤ Ø40mm with wall thickness 1.6 – 3.7mm
EI 240 U/C & E 240

PE, ABS & SAN+PVC conduit/pipe ≤ Ø40mm with wall thickness 2.0 – 3.7mm
EI 180 U/C & E 180

PP conduit/pipe ≤ Ø40mm with wall thickness 1.2 – 3.7mm EI 180 U/C & E 180

Sound reduction (seal only) Rw 62dB

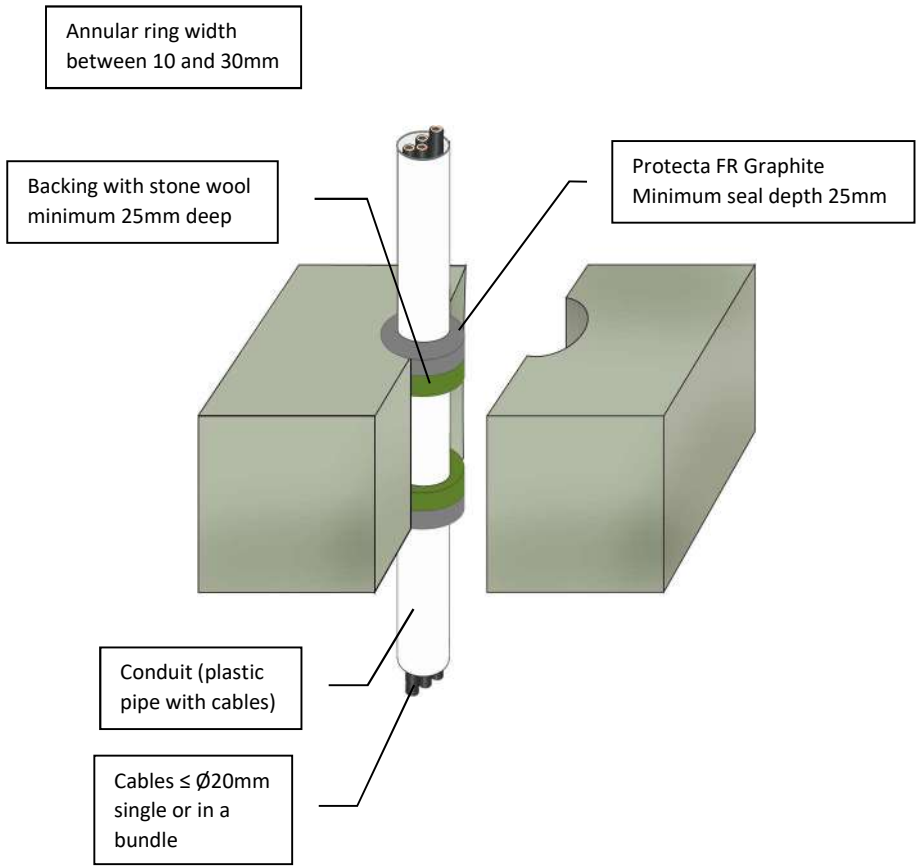
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Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of conduits in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Fire & Sound classification

PE, ABS or SAN+PVC conduit/pipe ≤ Ø110mm with wall thickness 2.4 – 10.0mm	EI 60 U/C
PP conduit/pipe ≤ Ø110mm with wall thickness 2.7mm	EI 90 U/C
PVC conduit/pipe ≤ Ø110mm with wall thickness 1.8 – 6.6mm	EI 90 U/C
Sound reduction (seal only)	Rw 53dB

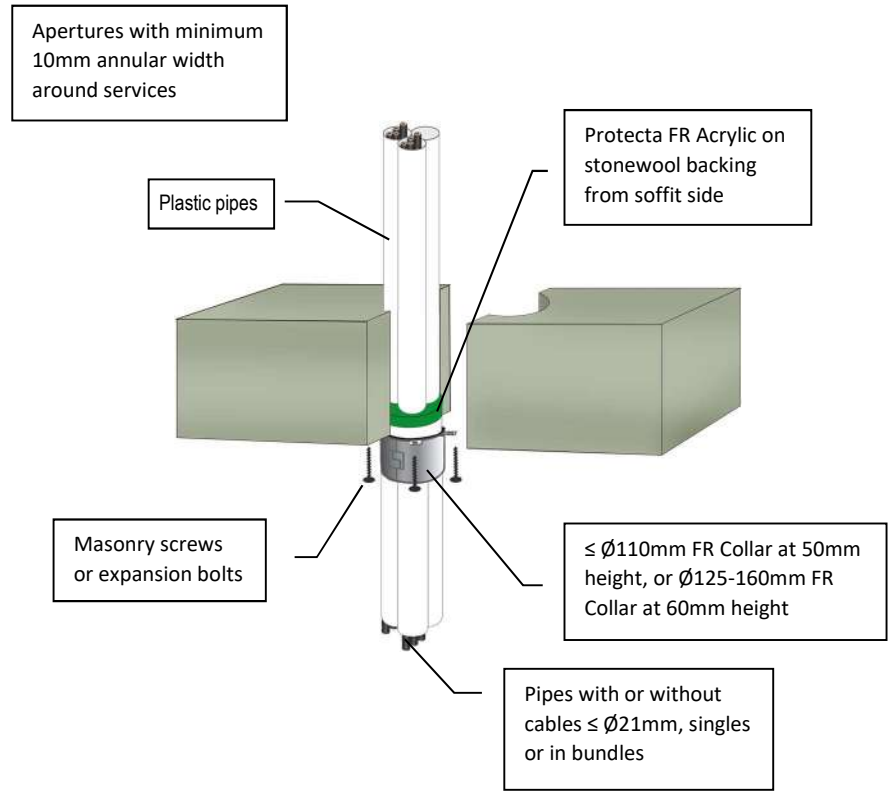
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the bundled pipes and the separating element are sealed with minimum 10mm deep Protecta FR Acrylic on 40mm deep stone wool backing.
2. Place a suitable collar around the pipes and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the floor, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the floor and the collar shell.
4. Attach the collar with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic Stonewool
Application	Fire stopping of plastic pipes and cables in rigid floors
Construction	Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

PVC pipes ≤ Ø32mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.0 – 2.4mm
EI 90 C/U & E 90

PE & ABS pipes ≤ Ø32mm, single, or in a bundle
≤ Ø160mm with wall thickness 2.0 – 3.0mm
EI 90 C/U & E 90

PP pipes ≤ Ø32mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.8 – 4.4mm
EI 90 C/U & E 90

Sound reduction (seal only) Rw 62dB

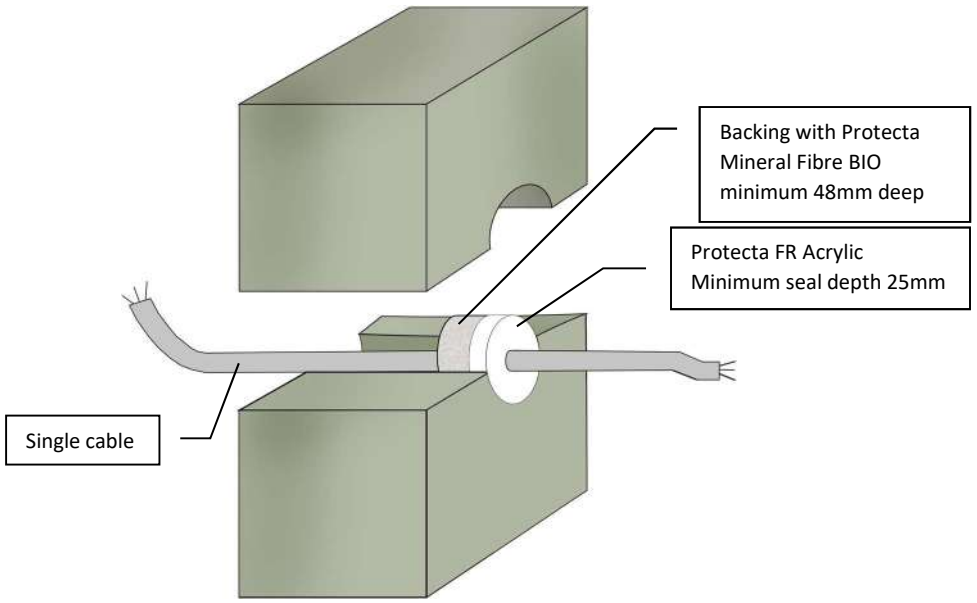
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Sheet size: **A4**	Drawn date & no: 22/8/21
Scale: **NTS**	Drawn by: K.B

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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
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 ≥ 650 kg/m³

Fire & Sound classification

Cable ≤ Ø21mm in maximum aperture 300x300mm — EI 60 & E 240

Cable ≤ Ø21mm in maximum aperture Ø87mm — EI 90 & E 240

Cable ≤ Ø21mm in maximum aperture 35x35mm or Ø 36mm — EI 120 & E 240

Sound reduction (seal only) — Rw 62 dB

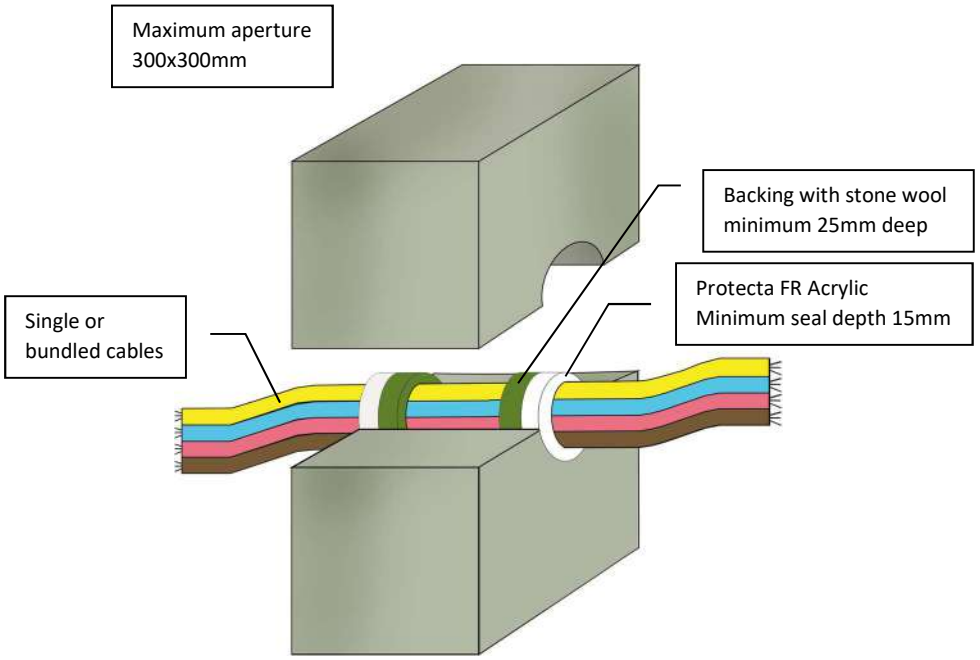
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Sheet size: **A4**	Drawn date & no: 7/3/15
Scale: **NTS**	Drawn by: K.B

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 22/0735

UKTA 22/0031

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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

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 ≥ 650 kg/m³

Fire & Sound classification

Cables ≤ Ø21mm single or in a bundle ≤ Ø100mm — EI 120 & E 240

Cables ≤ Ø80mm single or in a bundle ≤ Ø100mm — EI 60 & E 120

Sound reduction (seal only) — Rw 62 dB

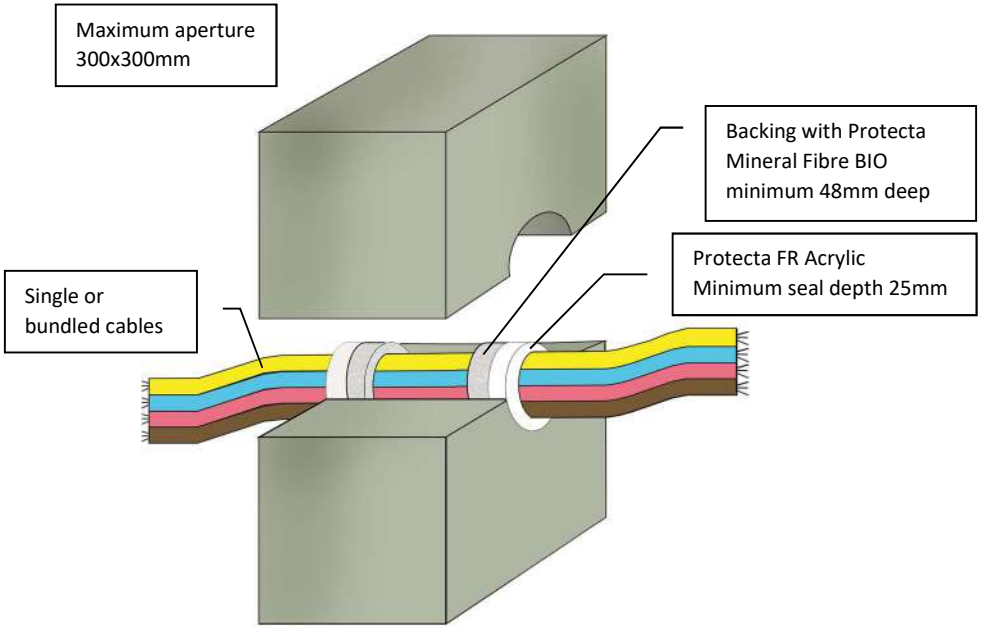
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Tel: +44 (0) 148 4421036
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Scale: **NTS**	Drawn by: K.B

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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
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 ≥ 650 kg/m³

Fire & Sound classification

Cables ≤ Ø21mm single or in a bundle ≤ Ø100mm — EI 240 & E 240

Cables ≤ Ø80mm single or in a bundle ≤ Ø100mm — EI 60 & E 240

Sound reduction (seal only) — Rw 62 dB

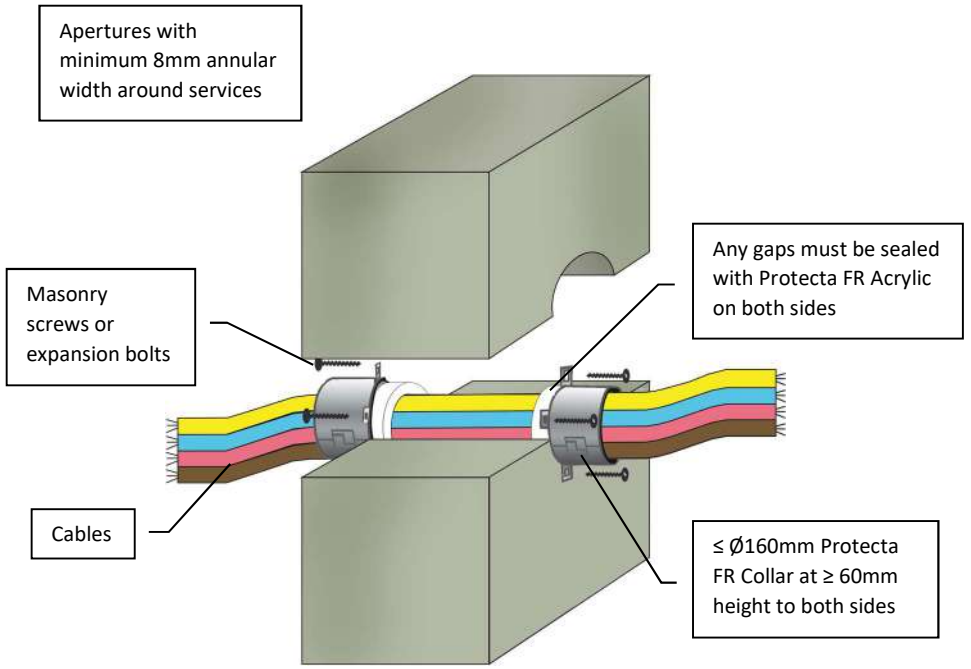
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Sheet size: **A4**	Drawn date & no: 7/3/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the cable bundle and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the cables 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of cables in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Cables ≤ Ø80mm in a bundle ≤ Ø160mm
EI 60 & E 120

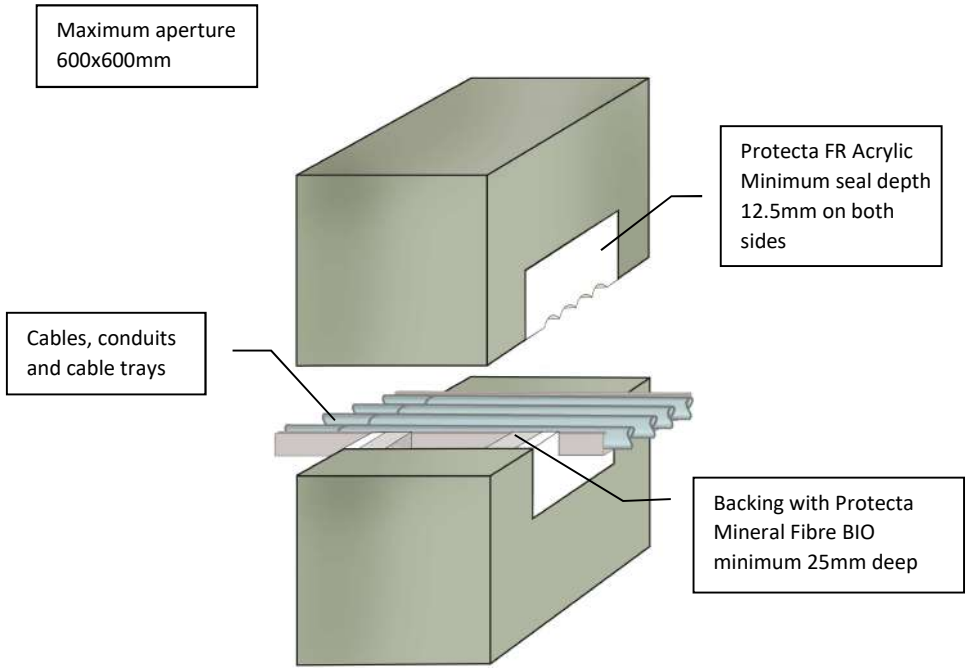
Sound reduction (seal only)
Rw 62 dB

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Sheet size: **A4**	Drawn date & no: 26/8/21
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables, conduits and cable trays in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Cables ≤ Ø21mm single and bundled, with cable trays	EI 60 & E 90
Cables ≤ Ø80mm and conduits ≤ Ø32mm, single and bundled, with or without trays	EI 30 & 60
Sound reduction (seal only)	Rw 62 dB

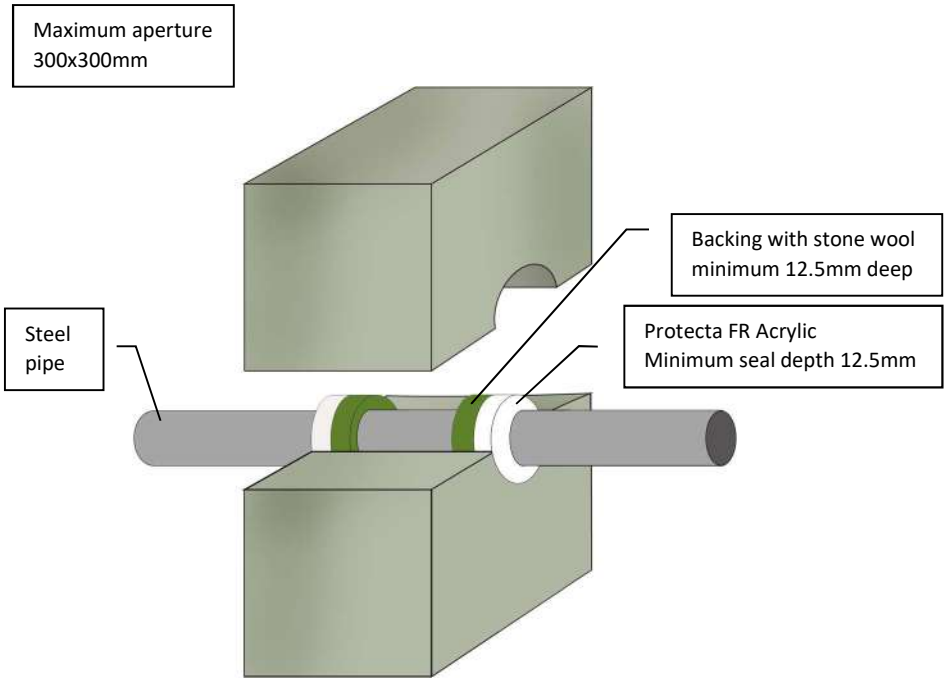
Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø30mm without pipe insulation

EI 90 C/C & E 90

Sound reduction (seal only)

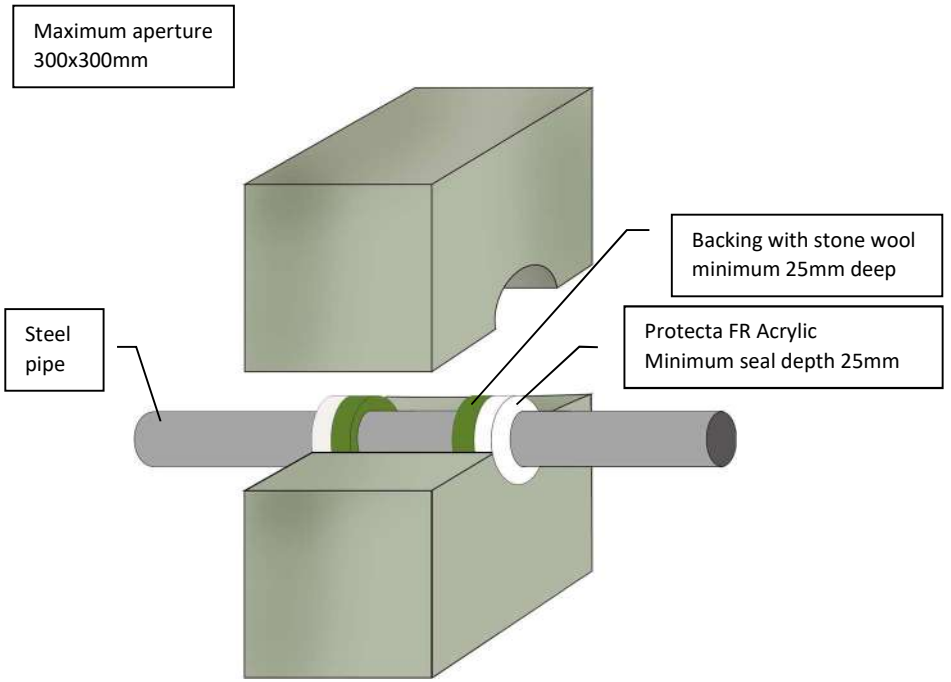
Rw 62dB

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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 8/4/18
Scale: **NTS**	Drawn by: K.B

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø12mm without pipe insulation
EI 120 C/C & E 240

Steel pipe ≤ Ø30mm without pipe insulation
EI 120 C/C & E 120

Steel pipe ≤ Ø65mm without pipe insulation
EI 20 C/U & E 120

Sound reduction (seal only) Rw 62dB

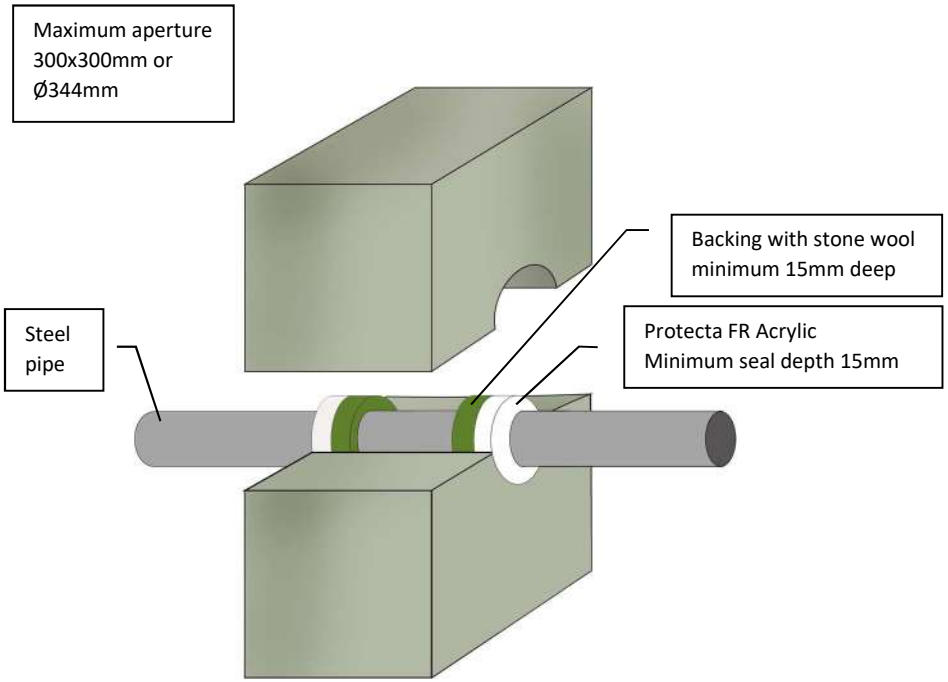
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Scale: **NTS**	Drawn by: K.B

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ETA 22/0735

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø324mm without pipe insulation

E 120 C/U

Sound reduction (seal only)

Rw 62dB

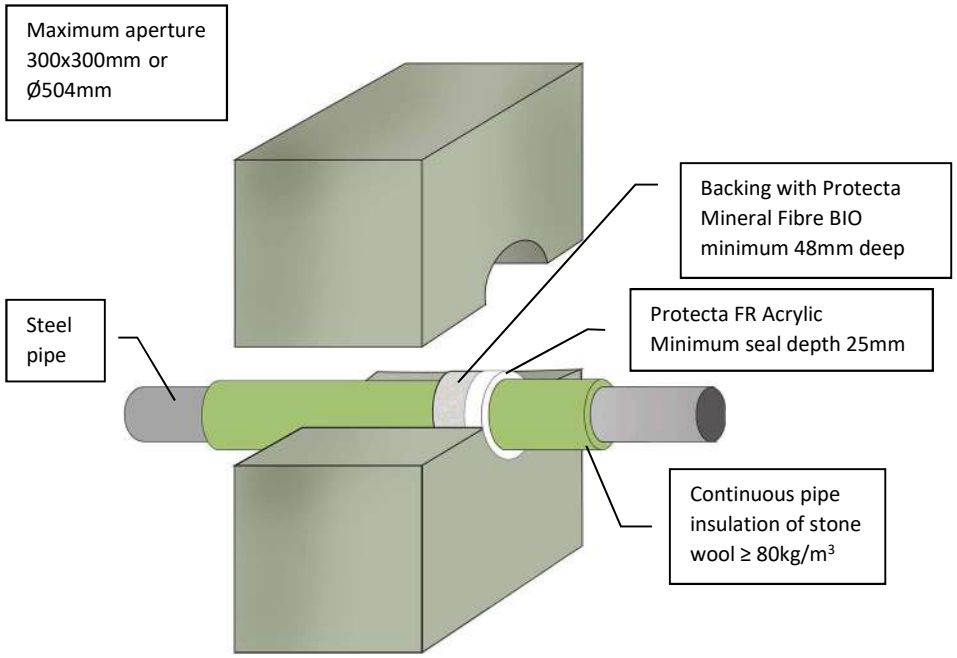
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with 20mm thick pipe insulation
EI 240 C/U & E 240

Steel pipe ≤ Ø324mm with 30-80mm thick pipe insulation
EI 180 C/U & E 180

Sound reduction (seal only)
Rw 62dB

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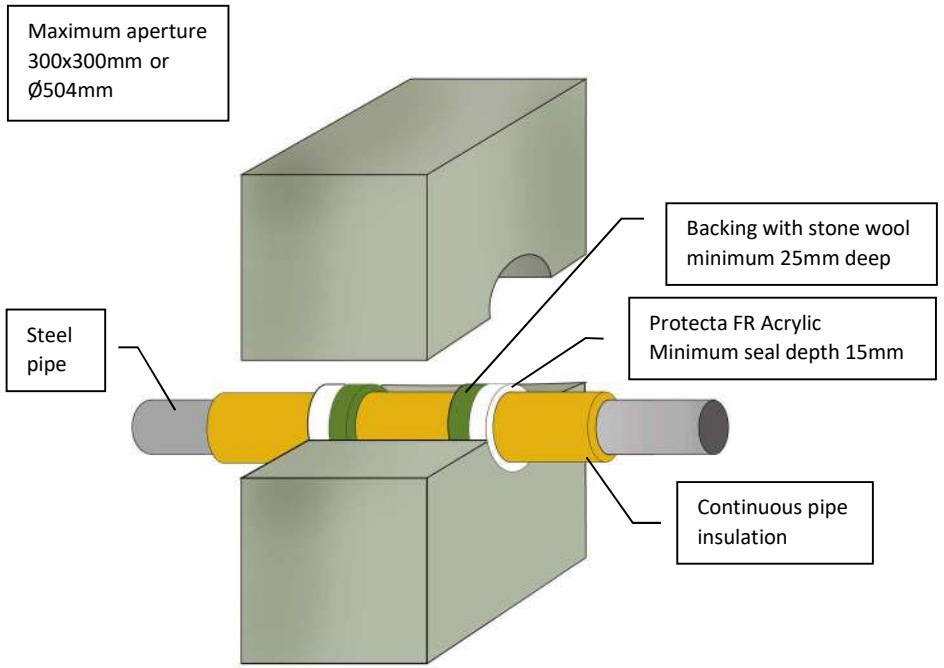
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 9/4/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø12mm with 20mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Steel pipe ≤ Ø273mm with 30-60mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Steel pipe ≤ Ø324mm with 30-80mm thick pipe insulation of stone wool ≥ 80kg/m³
EI 240 C/U & E 240

Sound reduction (seal only) Rw 62dB

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Polyseam Ltd, 15 St Andrews Road,
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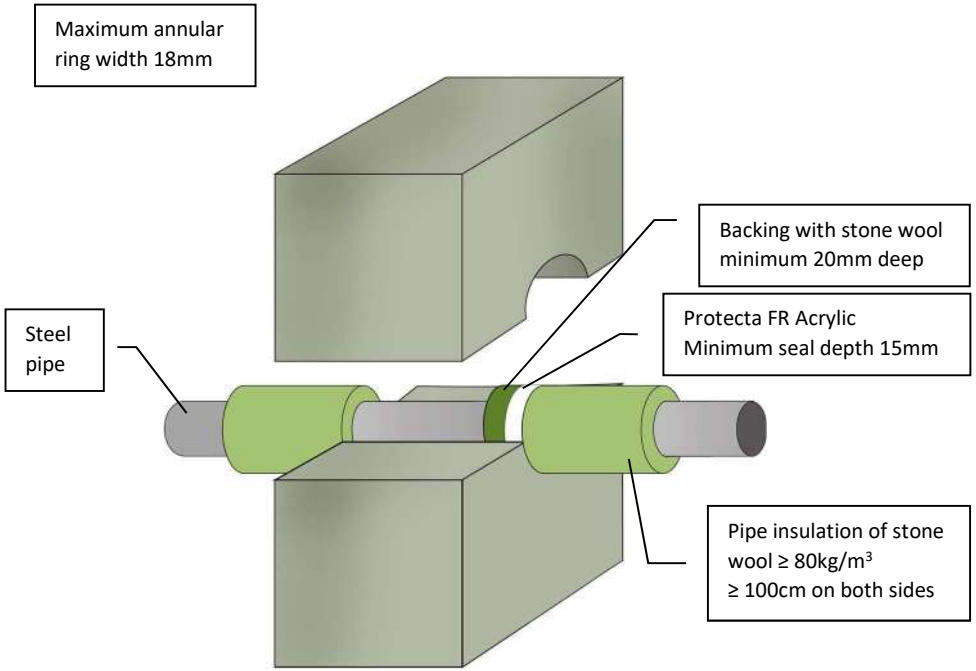
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Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation

EI 240 C/U & E 240

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation

EI 90 C/U & E 180

Sound reduction (seal only)

Rw 62dB

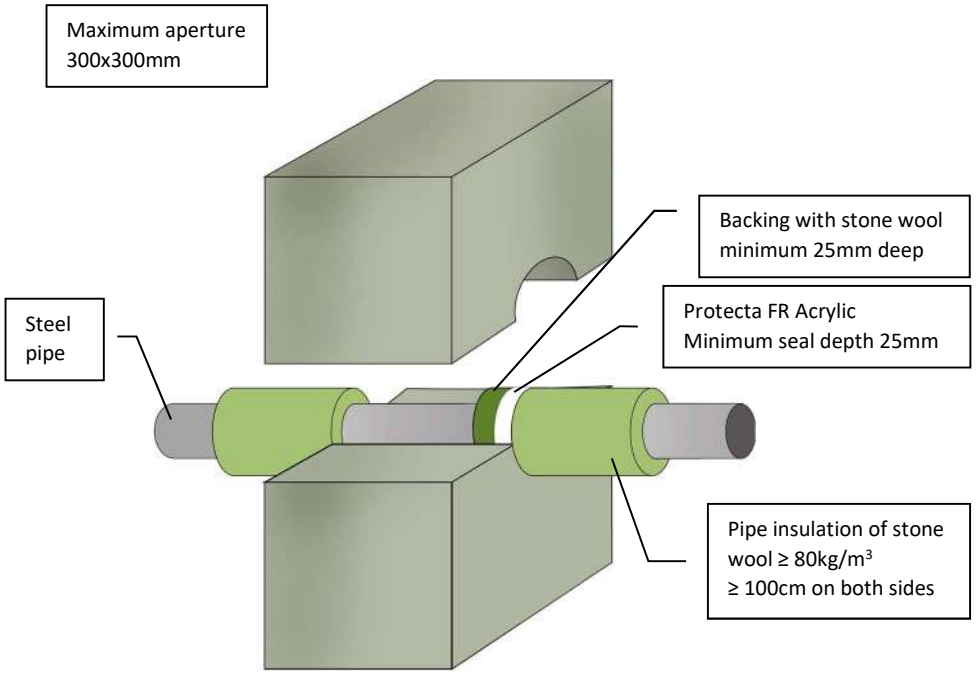
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 7/3/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø40mm with ≥ 20mm thick pipe insulation

EI 60 C/U & E 240

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation

EI 60 C/U & E 240

Sound reduction (seal only)

Rw 62dB

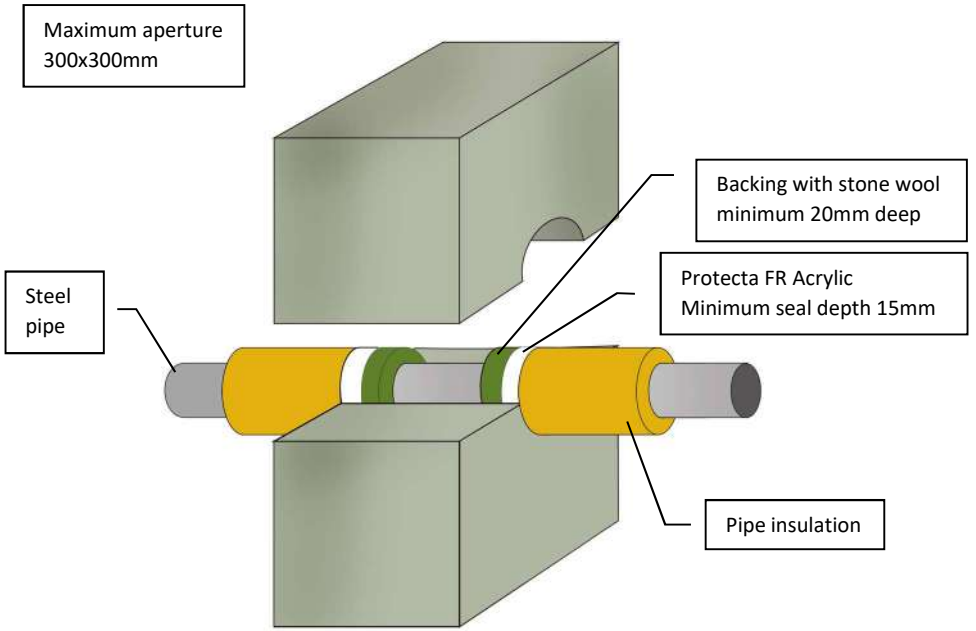
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/8/19
Scale: **NTS**	Drawn by: K.B

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ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 50cm on both sides — EI 120 C/U & E 120

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 100cm on both sides — EI 120 C/U & E 240

Steel pipe ≤ Ø273mm with ≥ 30mm thick pipe insulation of glass- or stone wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 62dB

Protecta®

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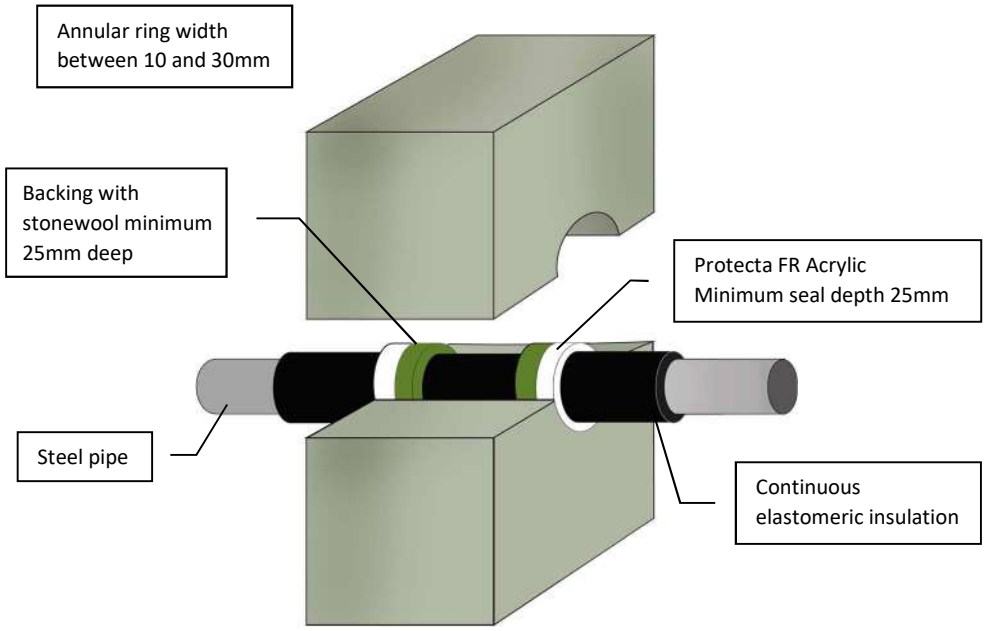
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Signed and approved:

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Scale: **NTS**	Drawn by: K.B

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø22mm with 13mm thick pipe insulation	EI 180 C/U & E 240
Steel pipe ≤ Ø40mm with 13 – 19mm thick pipe insulation	EI 120 C/C & E 120
Steel pipe ≤ Ø114mm with 13 – 25mm thick pipe insulation	EI 90 C/U & E 120
Steel pipe ≤ Ø114mm with 26 – 50mm thick pipe insulation	EI 60 C/U & E 60
Steel pipe ≤ Ø165mm with 13 – 25mm thick pipe insulation	EI 60 C/U & E 60
Sound reduction (seal only)	Rw 62dB

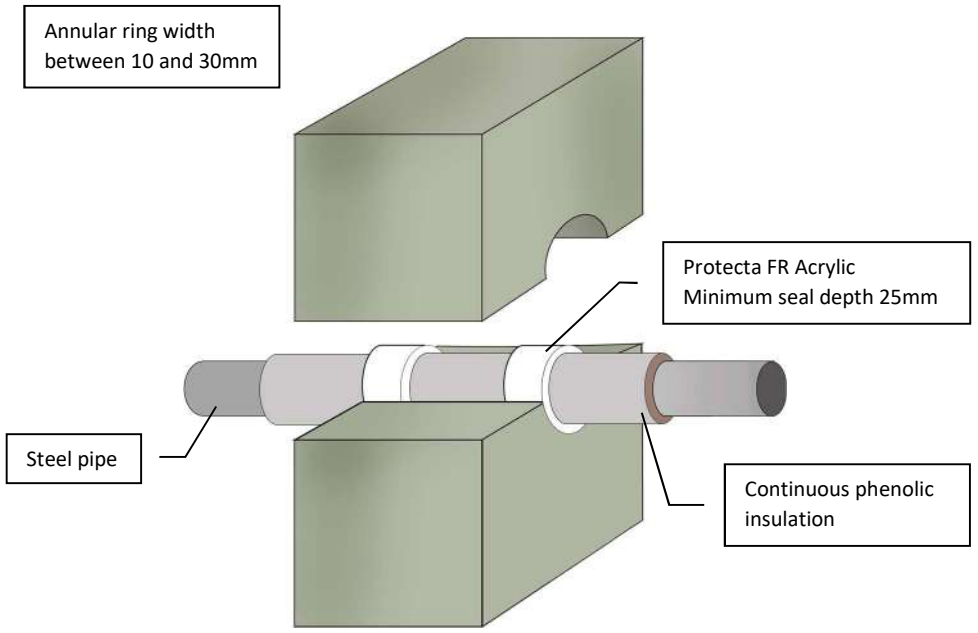
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

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ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø16mm with 15mm thick pipe insulation — EI 90 C/U & E 90

Steel pipe ≤ Ø273mm with 25mm thick pipe insulation — EI 60 C/U & E 90

Steel pipe ≤ Ø273mm with 26 – 100mm thick pipe insulation — EI 60 C/U & E 60

Sound reduction (seal only) — Rw 62dB

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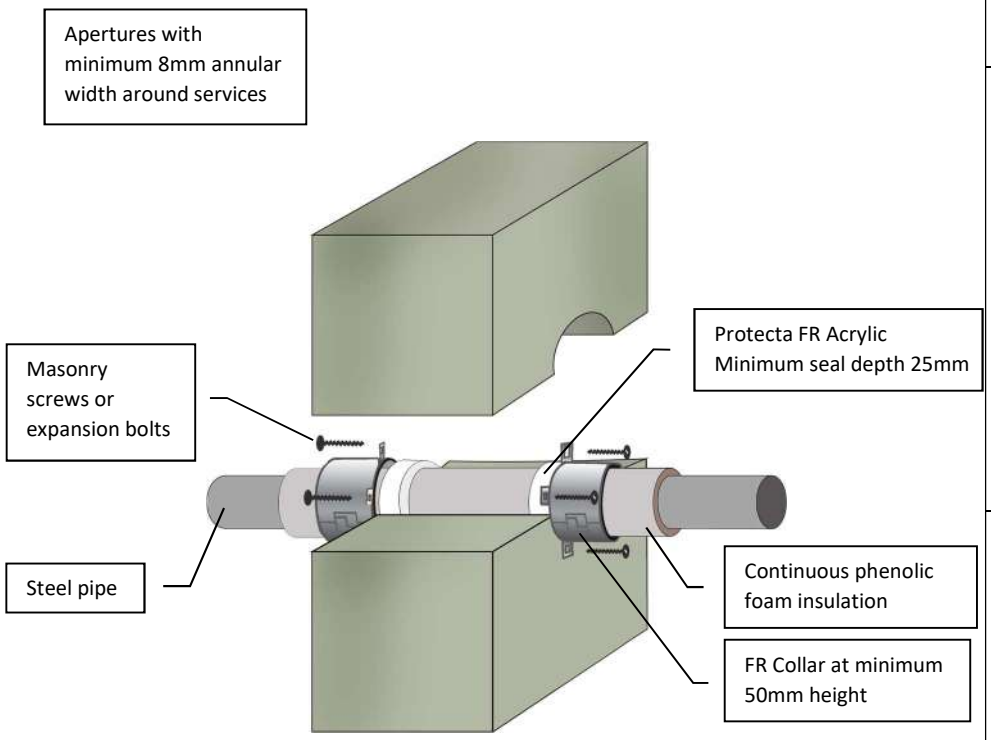
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Steel pipe ≤ Ø12mm with 15mm thick pipe insulation — EI 120 C/C & E 120

Steel pipe ≤ Ø108mm with 25mm thick pipe insulation — EI 90 C/C & E 120

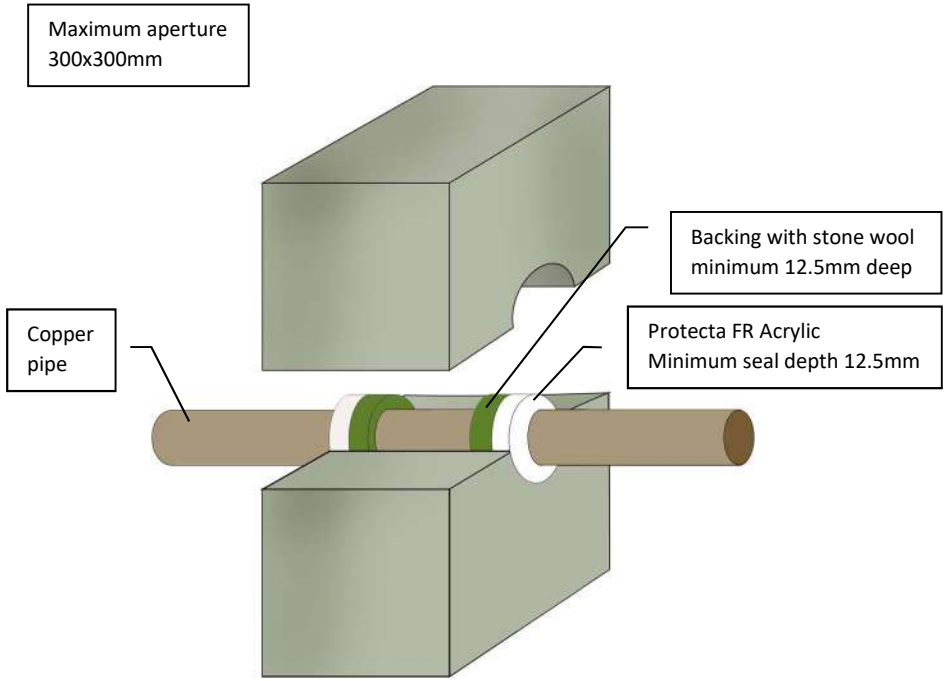
Sound reduction (seal only) — Rw 58 dB

Protecta®
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 12/5/24
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm without pipe insulation EI 60 C/C & E 90

Copper pipe Ø13-Ø22mm without pipe insulation EI 30 C/C & E 90

Sound reduction (seal only) Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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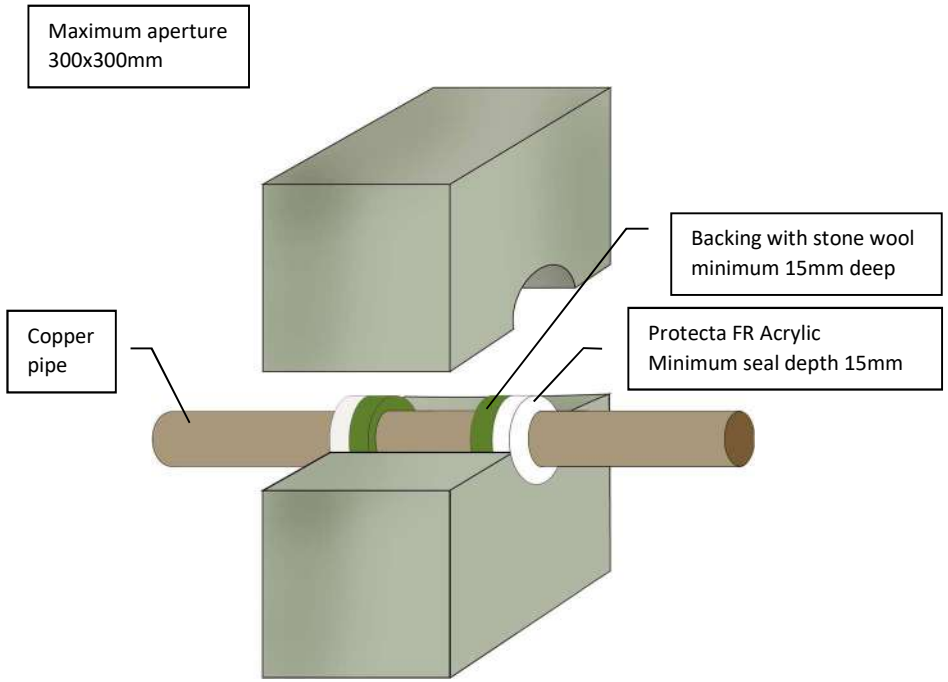
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/8/19
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm without pipe insulation
E 120 C/C

Sound reduction (seal only)
Rw 62dB

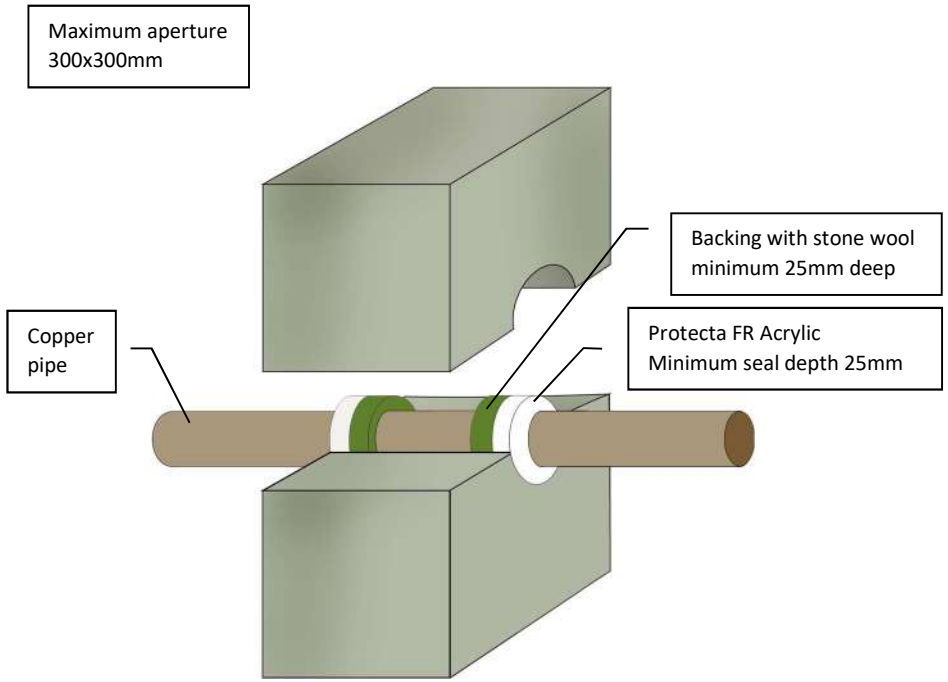
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/8/19
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm without pipe insulation
EI 120 C/C & E 240

Sound reduction (seal only)
Rw 62dB

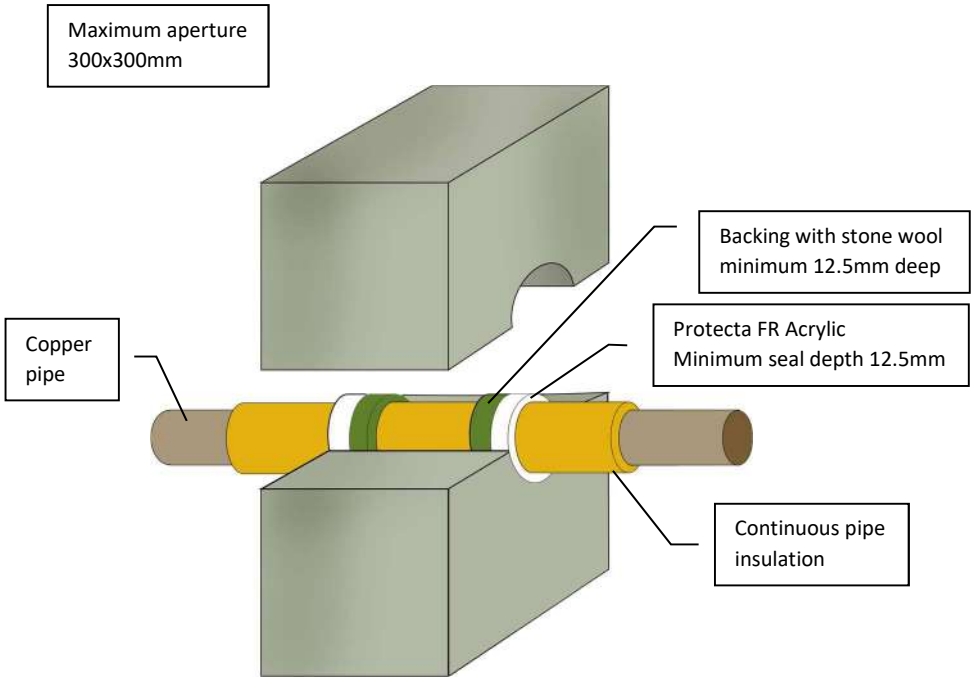
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Huddersfield, West Yorkshire, HD1 6SB
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20-80mm thick pipe insulation of stone wool ≥ 80kg/m³
EI 60 C/C & E 120

Copper pipe ≤ Ø54mm with 20-60mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Sound reduction (seal only)
Rw 62dB

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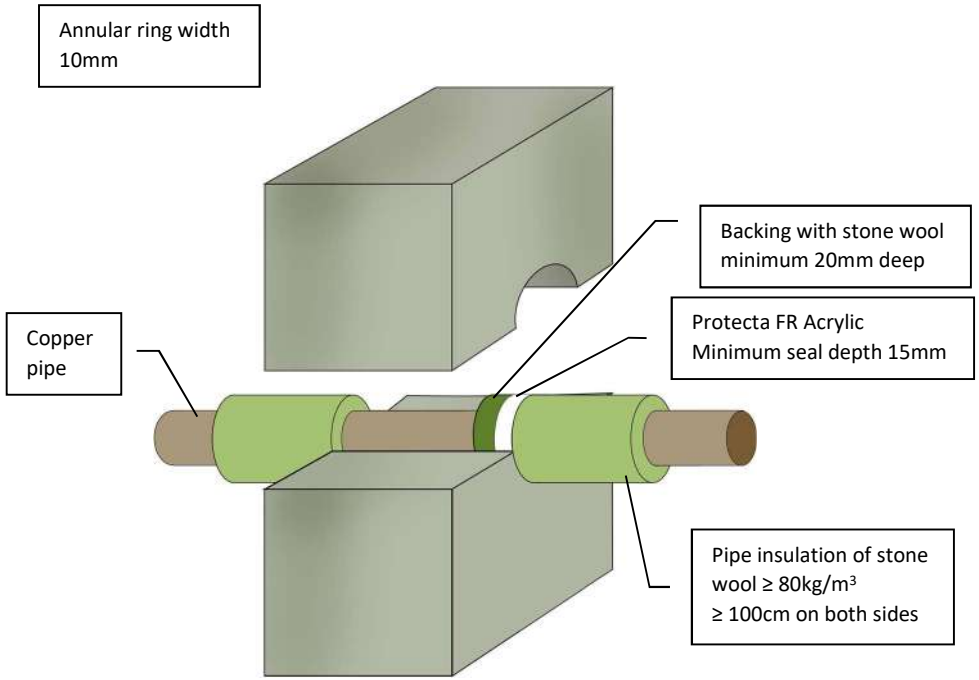
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/4/24
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø12mm with ≥ 20mm thick pipe insulation

EI 240 C/U & E 240

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 180 C/U & E 240

Sound reduction (seal only)

Rw 62dB

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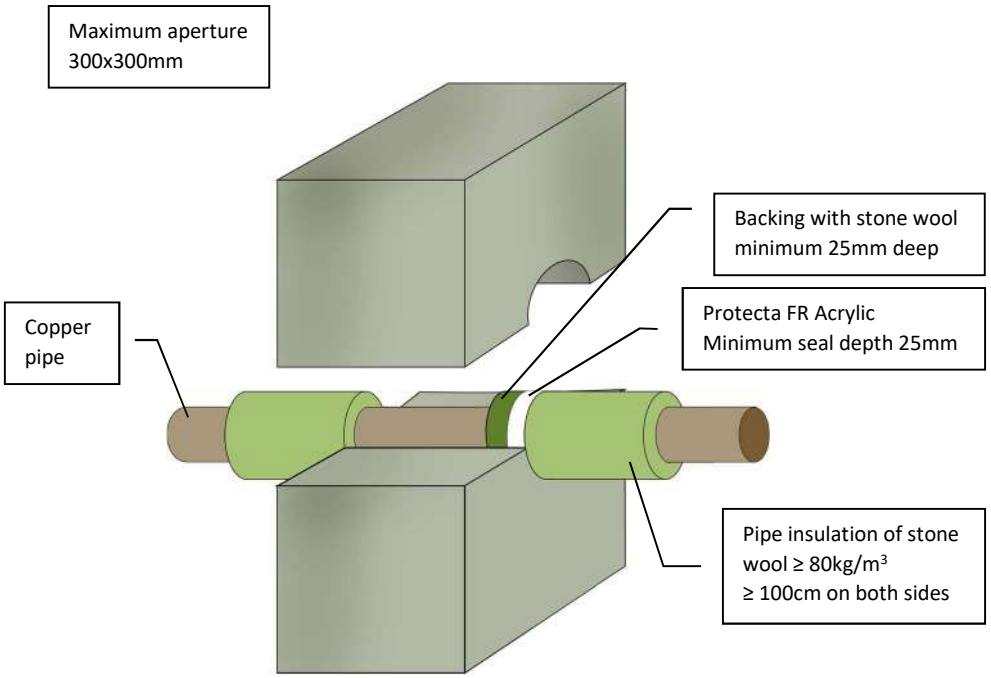
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 9/3/15
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 60 C/U & E 240

Sound reduction (seal only)

Rw 62dB

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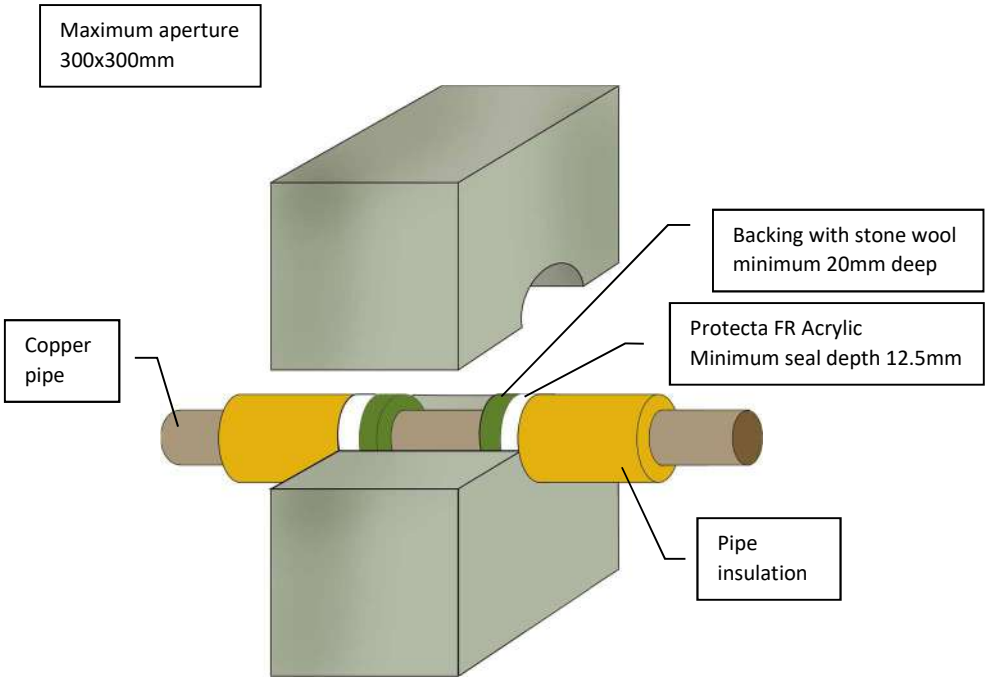
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 13/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 50cm on both sides — EI 120 C/U & E 120

Copper pipe ≤ Ø159mm with ≥ 30mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 100cm on both sides — EI 60 C/C & E 60

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of glass wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 60 C/C & E 120

Copper pipe ≤ Ø108mm with ≥ 30mm thick pipe insulation of glass wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 30 C/C & E 120

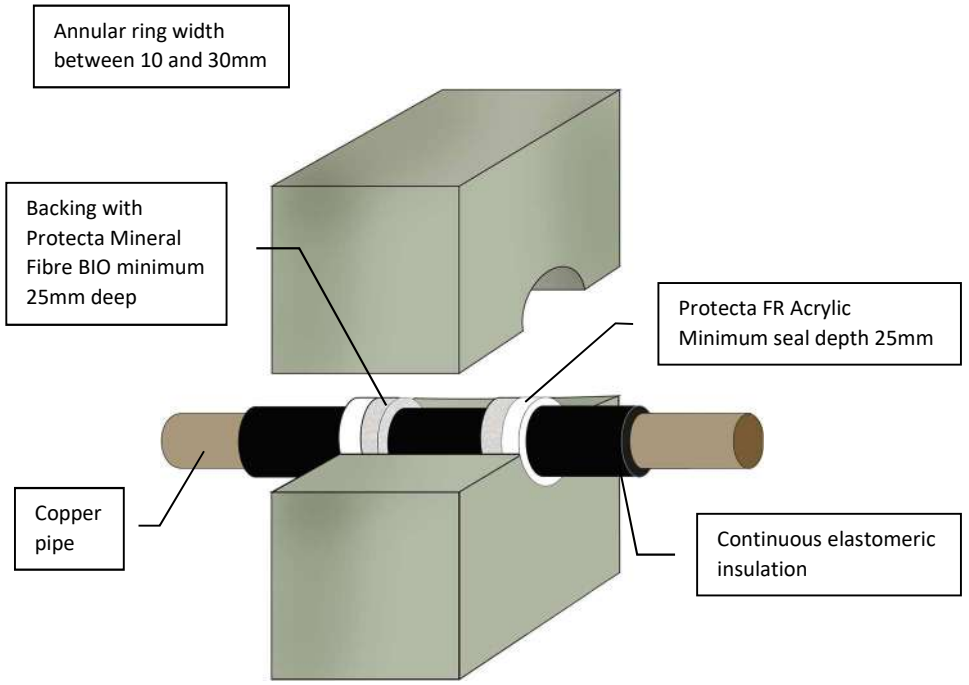
Sound reduction (seal only) — Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

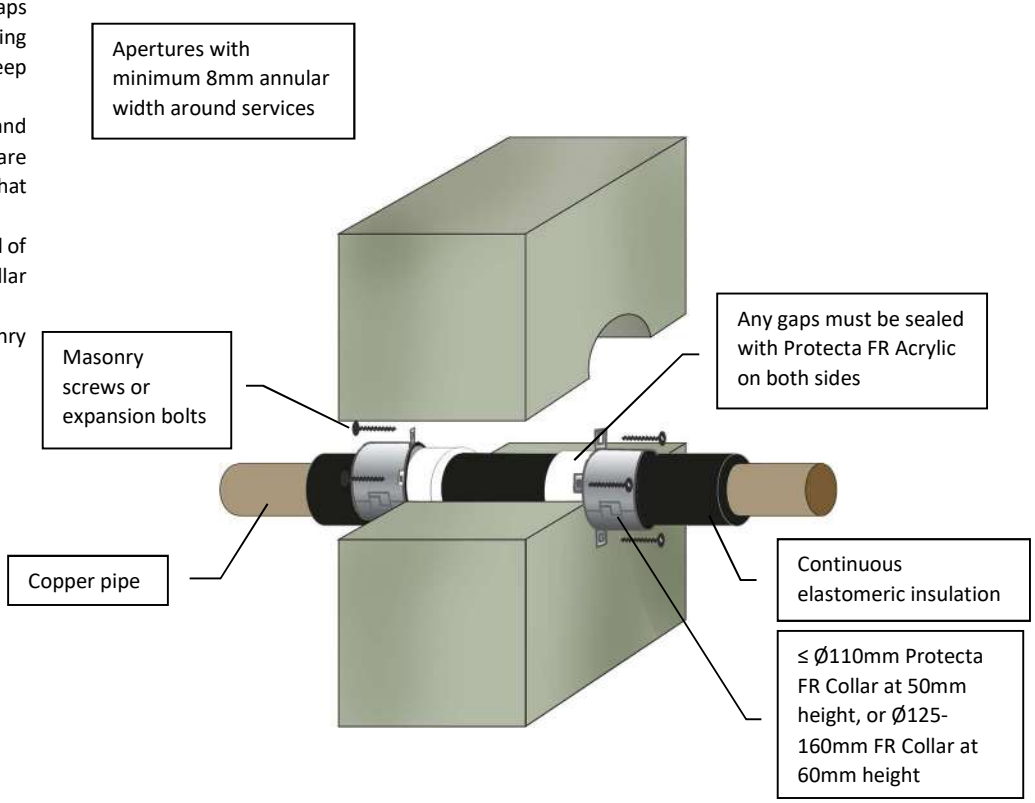
Copper pipe ≤ Ø12mm with 9mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø54mm with 9 – 18mm thick pipe insulation	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm with 19mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø54mm with 20 – 25mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 14 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 62 dB

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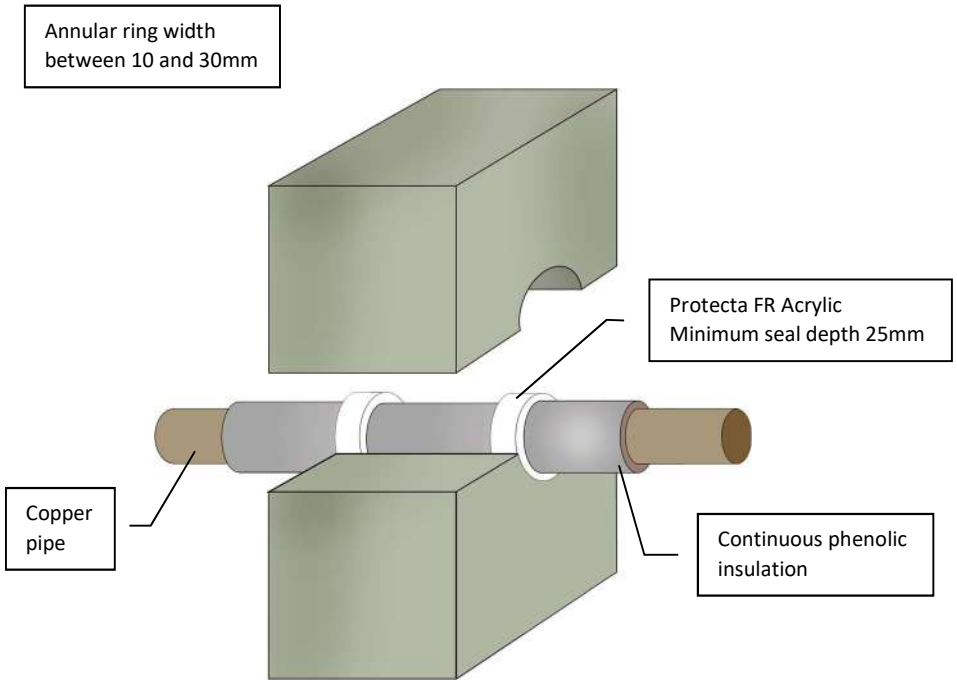
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 26/8/21
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø54mm with 15mm thick pipe insulation	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm with 16 – 30mm thick pipe insulation	EI 60 C/C & E 90
Copper pipe ≤ Ø159mm with 15 – 100mm thick pipe insulation	EI 30 C/C & E 45
Sound reduction (seal only)	Rw 62dB

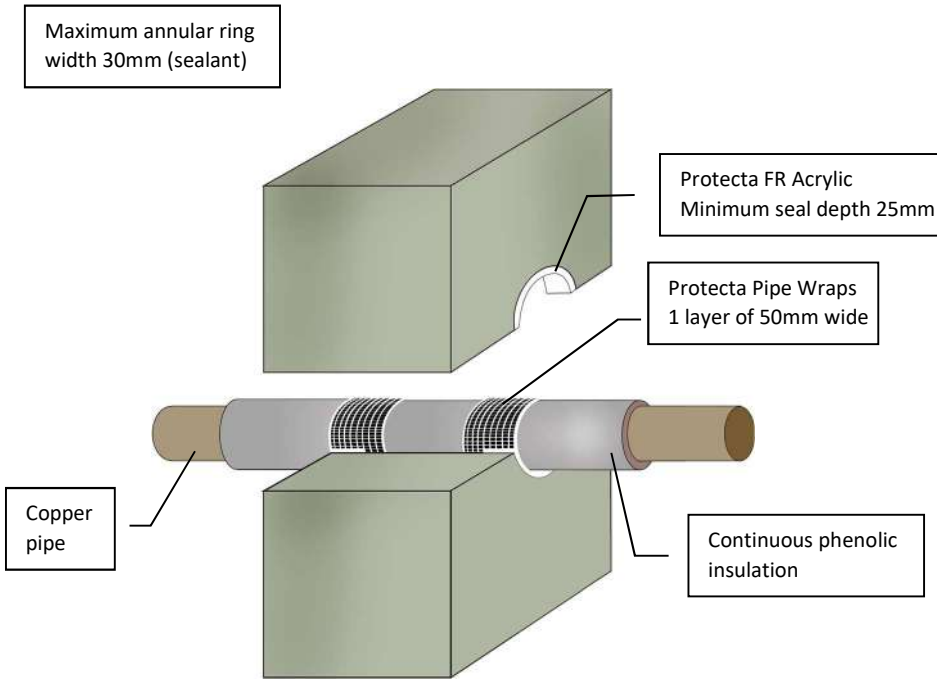
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Copper pipe ≤ Ø159mm with 100mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
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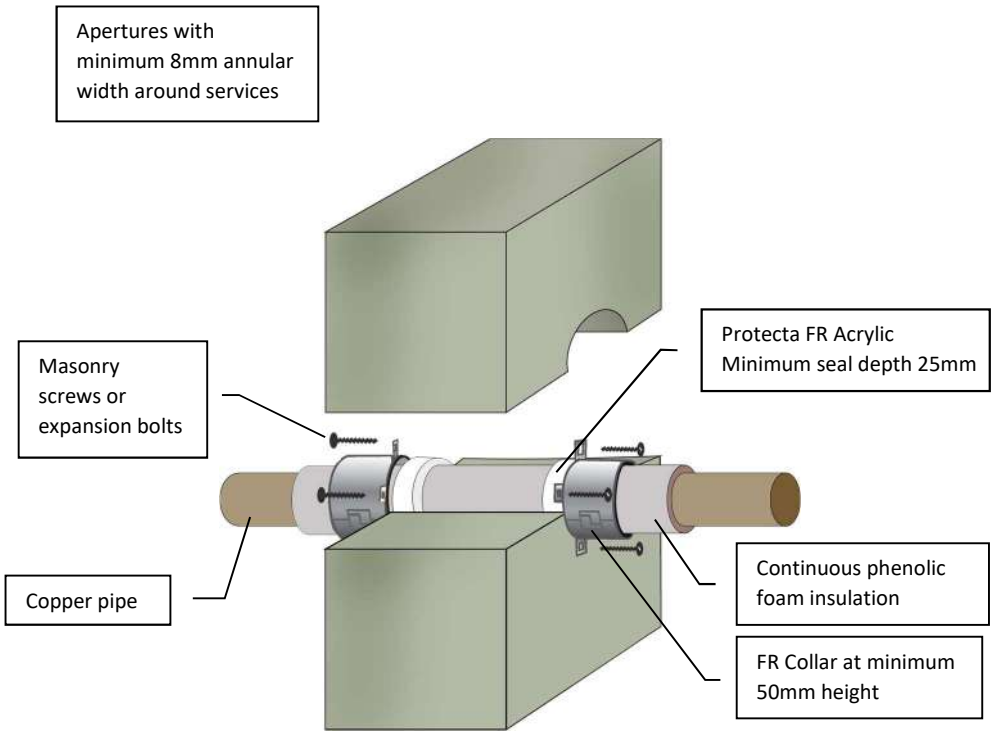
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

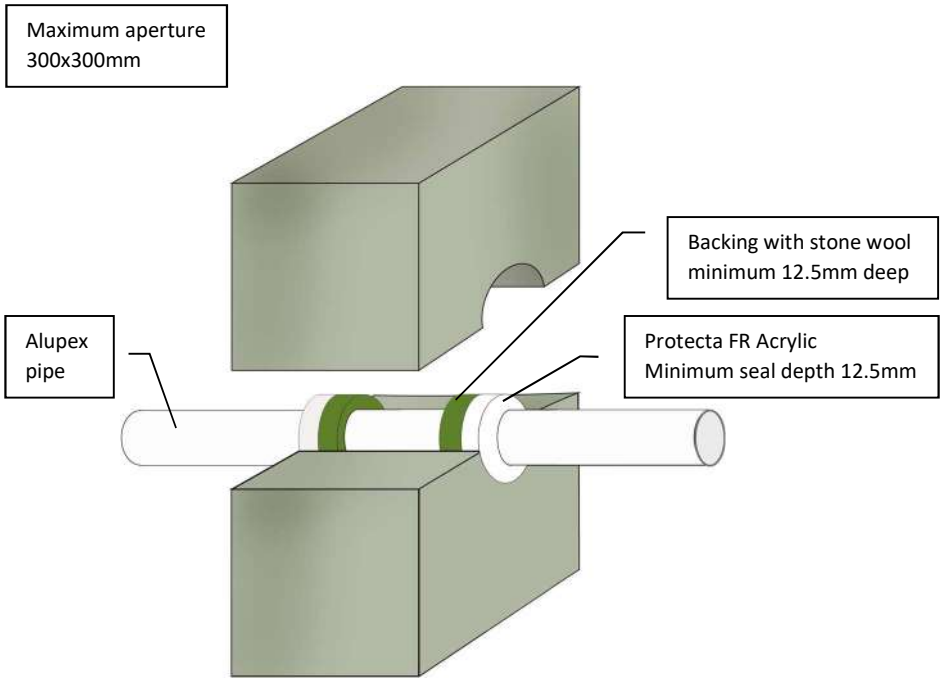
Copper pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 12/5/24
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø20mm without pipe insulation

EI 120 C/C & E 120

Sound reduction (seal only)

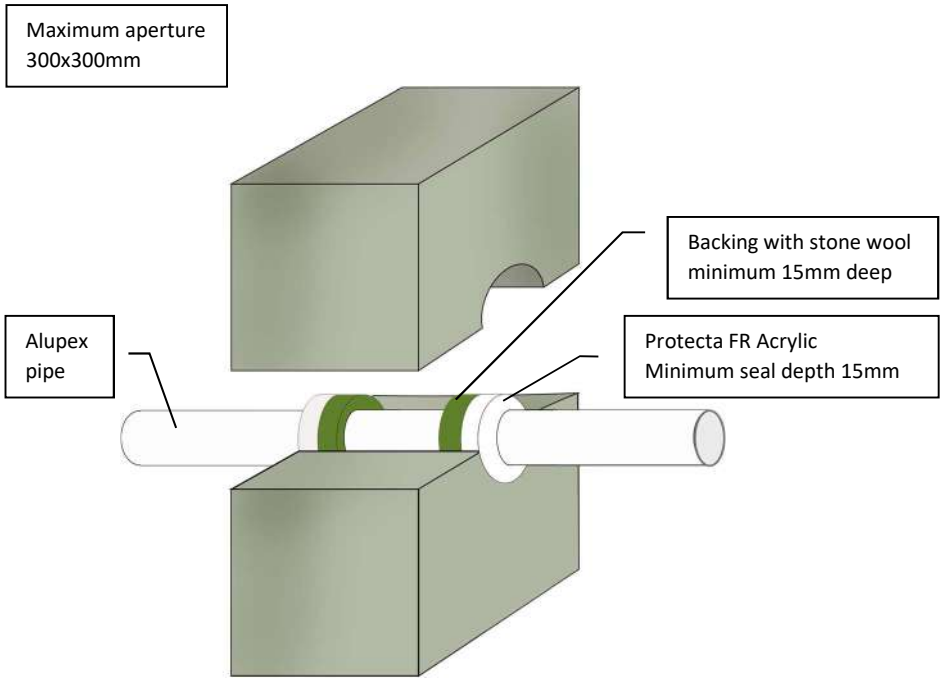
Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 8/4/18
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. 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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm without pipe insulation

EI 30 C/C & E 120

Sound reduction (seal only)

Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
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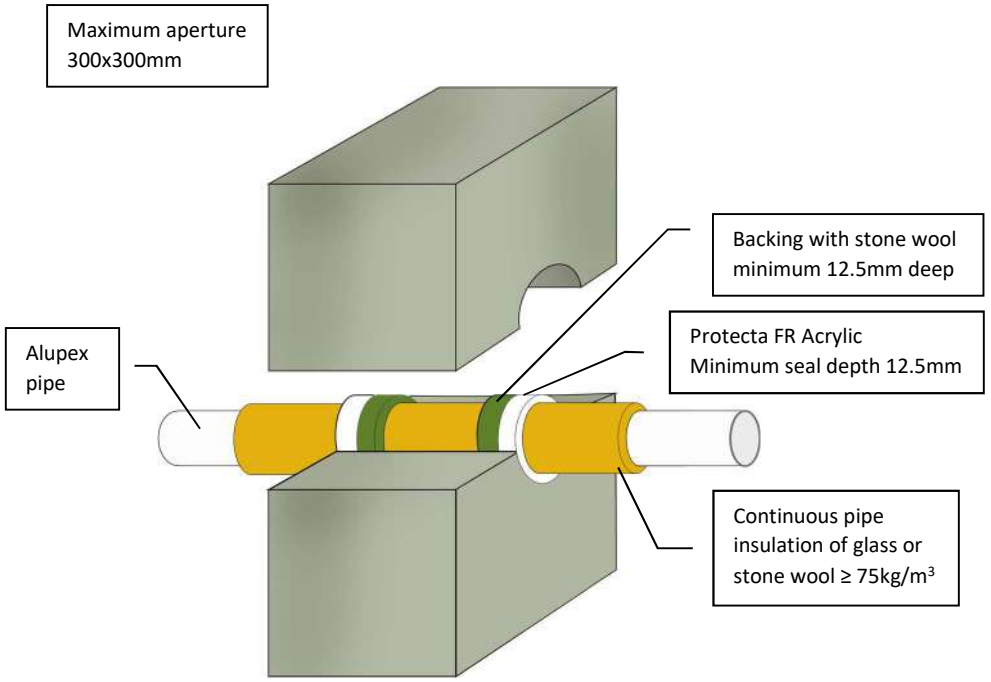
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/8/19
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 20-50mm thick pipe insulation EI 120 C/C & E 120

Alupex pipe ≤ Ø75mm with 60mm thick pipe insulation EI 60 C/C & E 60

Sound reduction (seal only) Rw 62dB

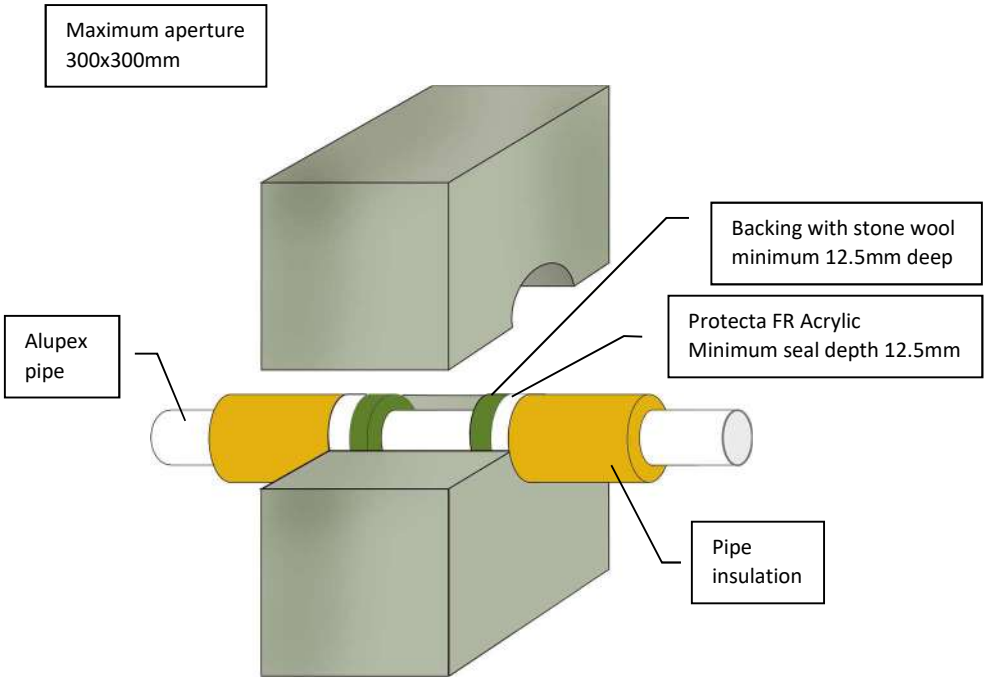
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with ≥ 20mm thick pipe insulation of glass or stone wool ≥ 75kg/m³
≥ 50cm on both sides
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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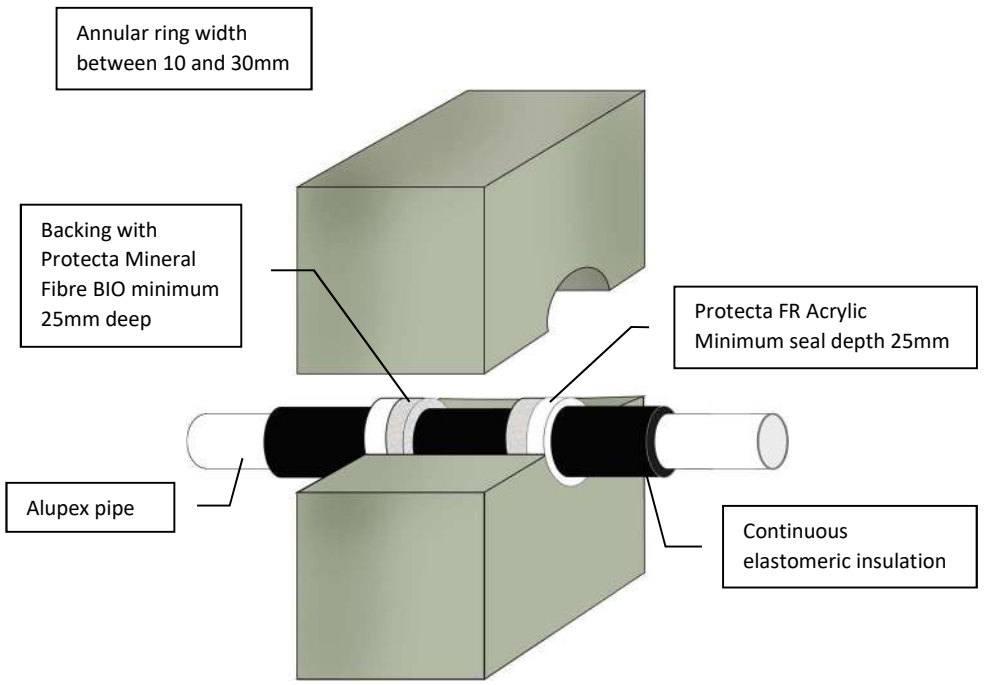
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/4/24
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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 9mm thick pipe insulation	EI 120 C/C & E 120
Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

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Signed and approved:

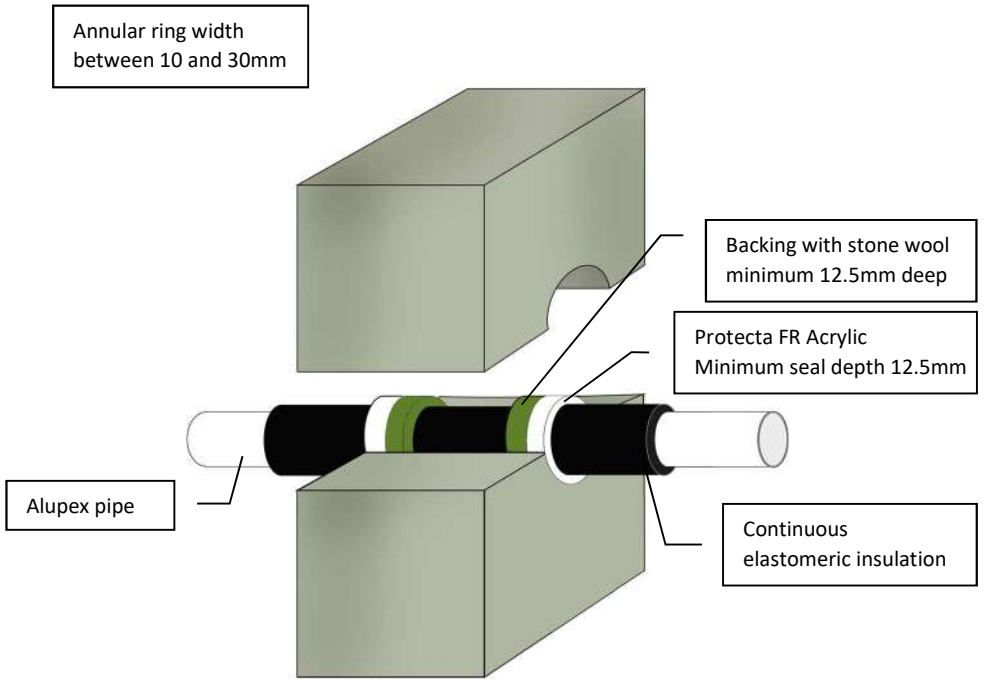
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 23/4/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 9mm thick pipe insulation	EI 90 C/C & E 120
Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation	EI 45 C/C & E 60
Alupex pipe ≤ Ø75mm with 13 – 24mm thick pipe insulation	EI 60 C/C & E 90
Alupex pipe ≤ Ø75mm with 25mm thick pipe insulation	EI 90 C/C & E 90
Sound reduction (seal only)	Rw 62dB

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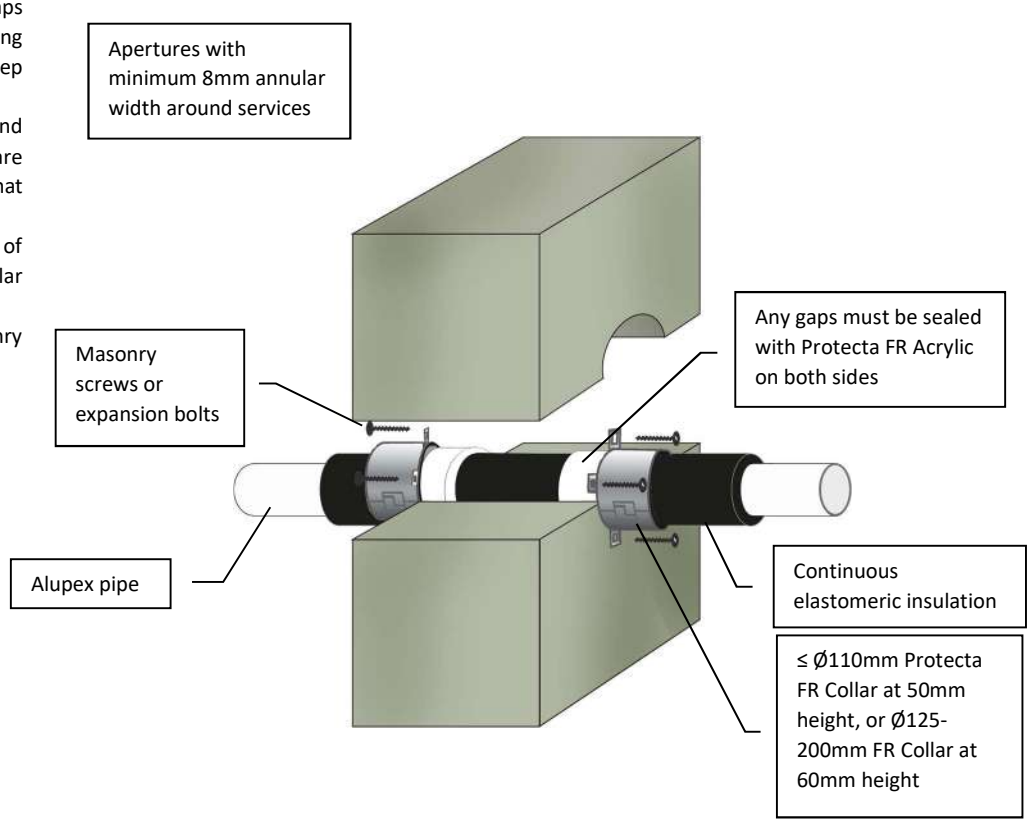
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of alupex pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 26 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 62 dB

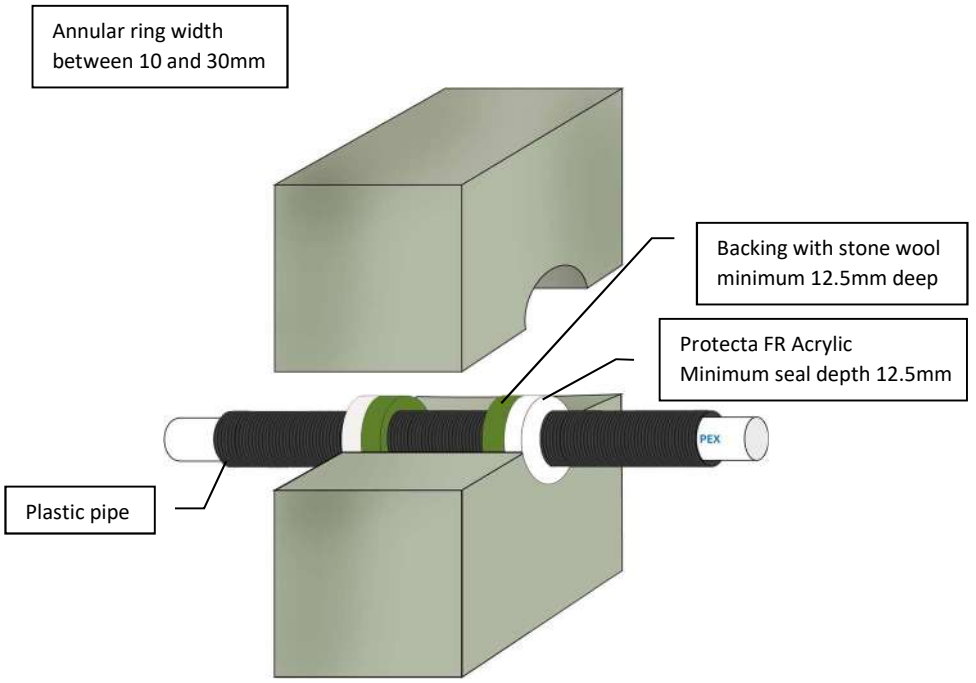
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 26/8/21
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stonewool
Application	Fire stopping of PEX plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø25mm
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

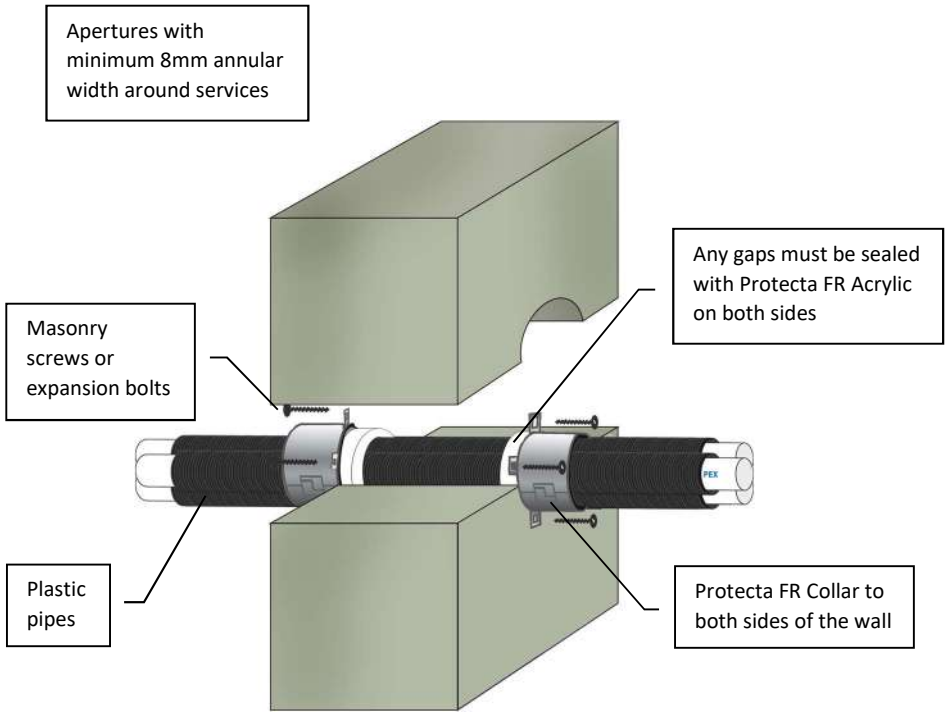
Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 9/4/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipes and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PEX pipes ≤ Ø 25mm, single or in a bundle ≤ Ø55mm, with collars at ≥ 30mm height
EI 90 C/C & E 120

PEX pipes ≤ Ø 42mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 C/C & E 60

Sound reduction (seal only) Rw 62 dB

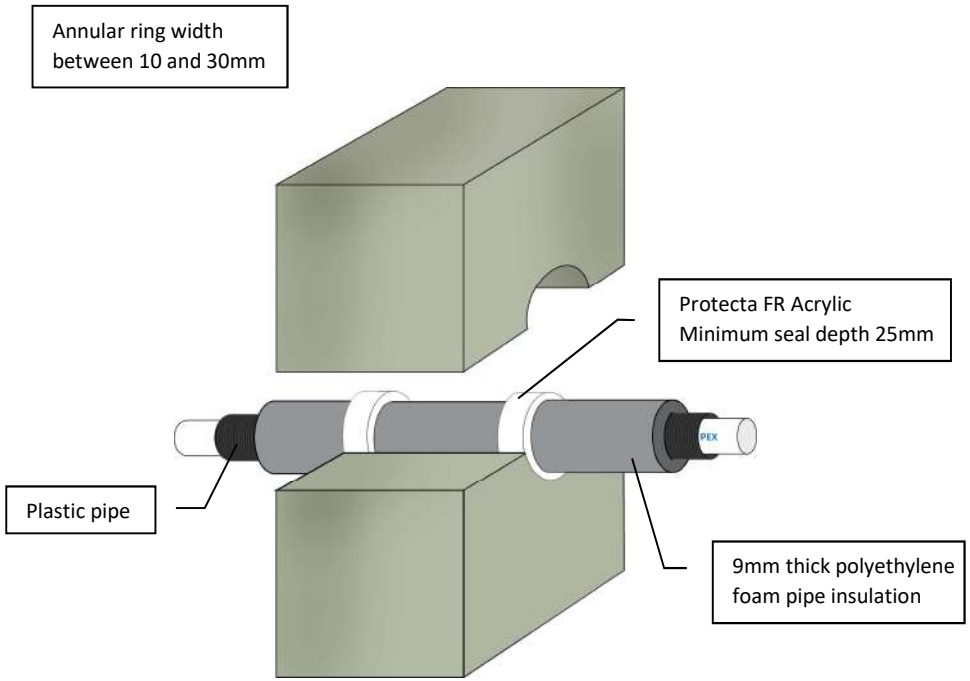
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/5/24
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø34mm
EI 45 C/C & E 45

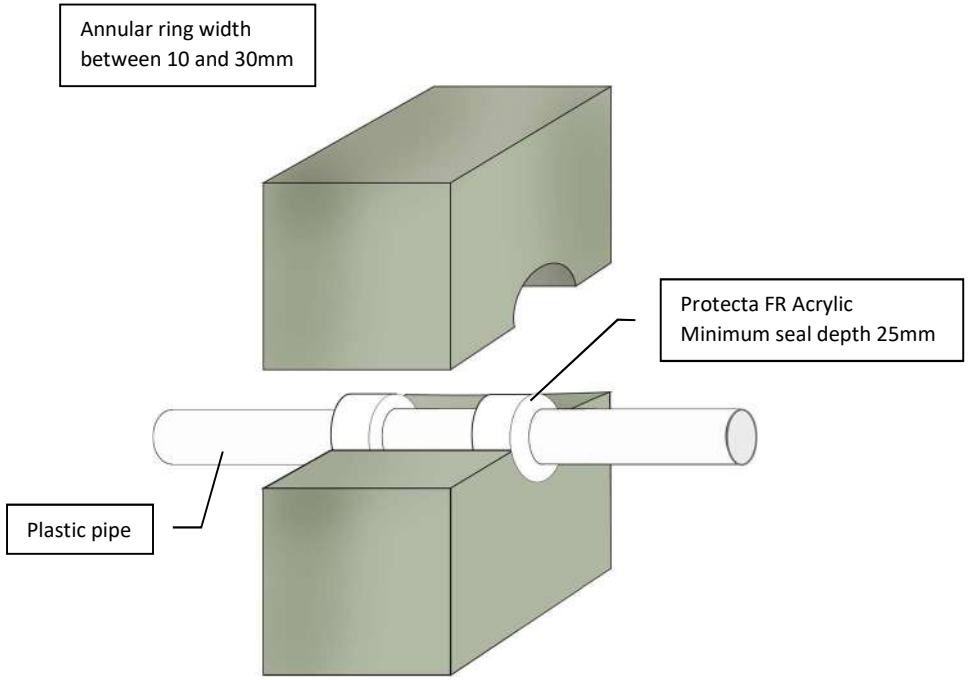
Sound reduction (seal only)
Rw 62dB

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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC pipe ≤ Ø32mm with wall thickness 1.0-1.6mm — EI 120 C/C & E 120

PVC pipe ≤ Ø32mm with wall thickness 1.0-2.4mm — EI 90 U/C & E 120

PE, ABS or SAN+PVC pipe Ø20mm with wall thickness 2.0mm — EI 120 U/C & E 120

PE, ABS or SAN+PVC pipe ≤ Ø32mm with wall thickness 2.0-3.0mm — EI 90 C/C & E 90

PP pipe Ø20mm with wall thickness 2.2mm — EI 120 U/C & E 120

PP pipe ≤ Ø32mm with wall thickness 1.8-4.4mm — EI 60 C/C & E 60

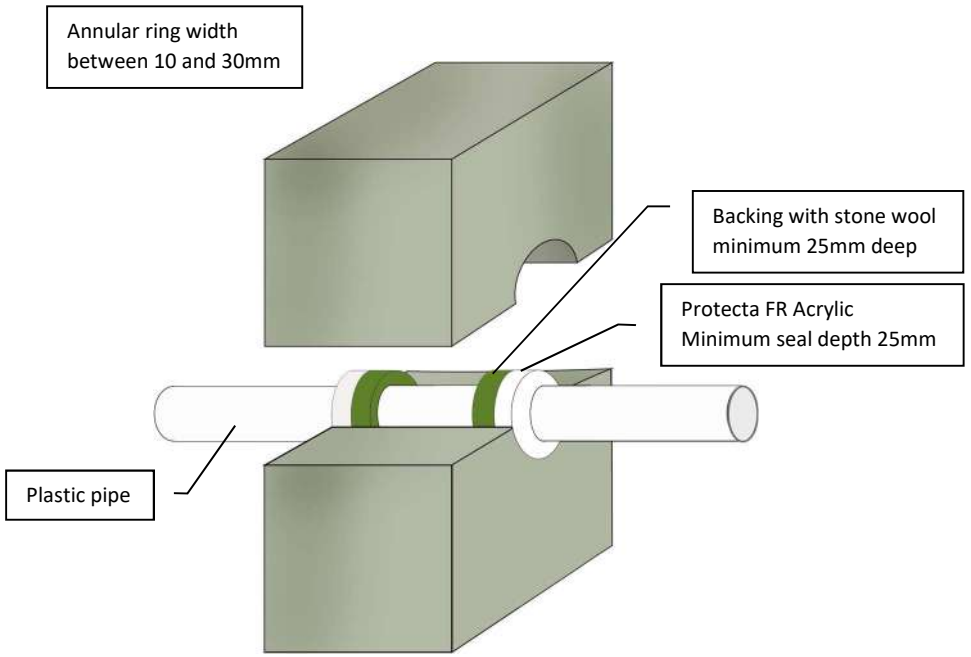
Sound reduction (seal only) — Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	14/8/19
Scale:	Drawn by:
NTS	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 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stonewool
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

PVC pipe ≤ Ø32mm with wall thickness 1.0-2.4mm — EI 240 U/C & E 240

PE, ABS or SAN+PVC pipe ≤ Ø32mm with wall thickness 2.0-4.4mm — EI 120 C/U & E 120

PE, ABS or SAN+PVC pipe ≤ Ø32mm with wall thickness 2.0mm — EI 240 C/U & E 240

PP pipe ≤ Ø32mm with wall thickness 1.8-4.4mm — EI 240 C/U & E 240

Sound reduction (seal only) — Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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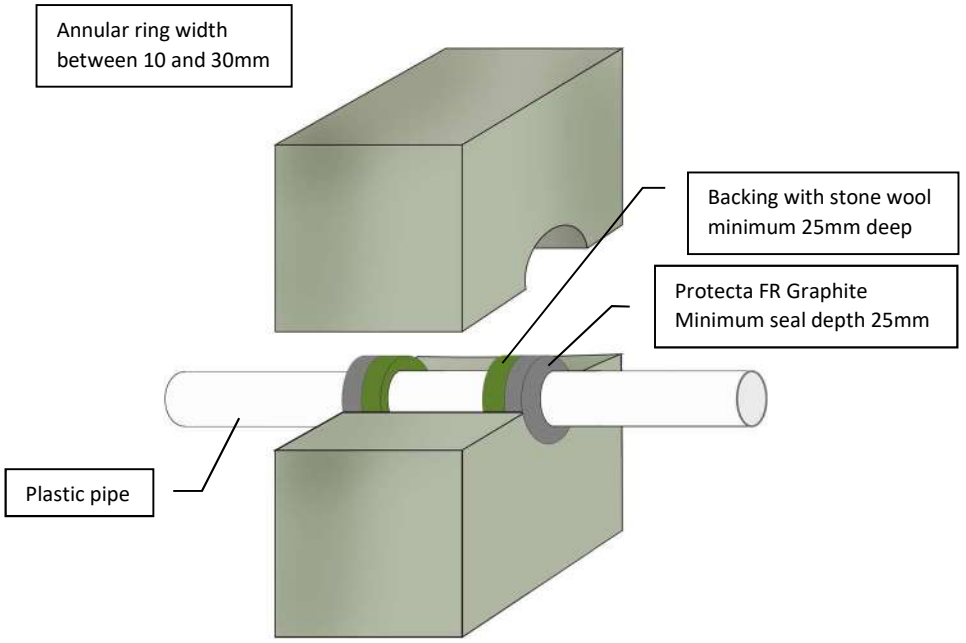
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 27/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC-U or PVC-C pipe ≤ 110 mm diameter with wall thickness 1.9-6.6mm in seal widths between 10 and 30mm — EI 120 U/C

PE, ABS or SAN+PVC pipe ≤ 40 mm diameter with wall thickness 2.4-3.7mm in seal widths between 10 and 30mm — EI 120 U/C

PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 2.4-4.2mm in seal widths between 10 and 30mm — EI 60 U/C

PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 4.3-10.0mm in seal widths between 10 and 30mm — EI 90 U/C & E 120 U/C

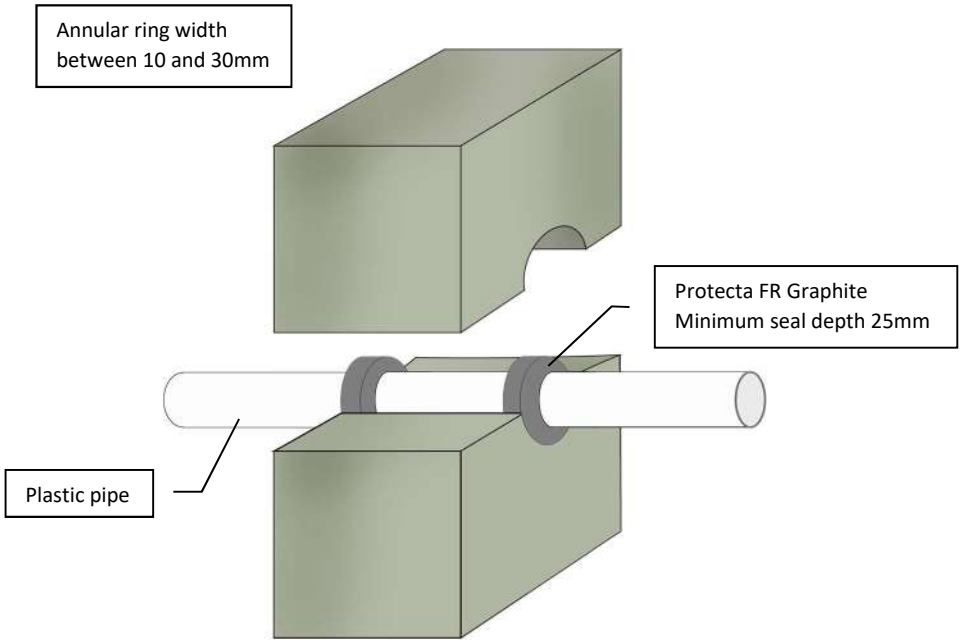
Sound reduction (seal only) — Rw 53dB

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

Client:

Job Title:

Products	Protecta FR Graphite
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC-U or PVC-C pipe ≤ 160 mm diameter with wall thickness 3.2-9.5mm in seal widths between 10 and 30mm — EI 30 U/C

PVC-U or PVC-C pipe ≤ 160 mm diameter with wall thickness 9.5mm in seal widths between 10 and 30mm — EI 90 U/C

PP pipe ≤ 110 mm diameter with wall thickness 1.8-6.3mm in seal widths between 10 and 30mm — EI 60 U/C

Sound reduction (seal only) — Rw 53dB

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Tel: +44 (0) 148 4421036
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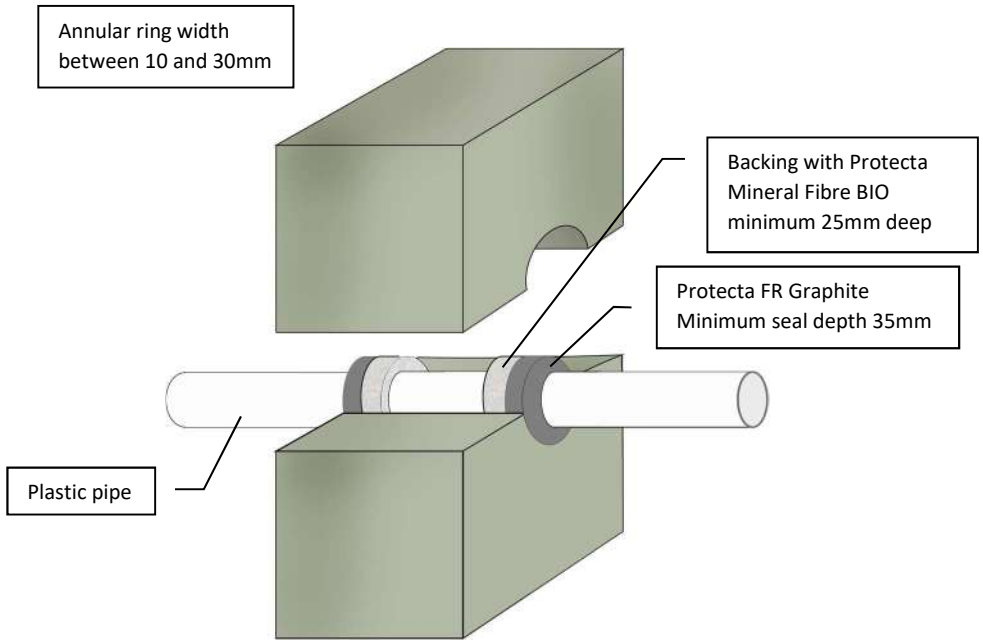
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite
Application	Fire stopping of plastic pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

PVC pipe ≤ 160 mm diameter with wall thickness 4.0 – 9.5mm

EI 90 U/C & E 90

PVC pipe ≤ 160 mm diameter with wall thickness 9.5mm

EI 180 U/C & E 240

Sound reduction (seal only)

Rw 53dB

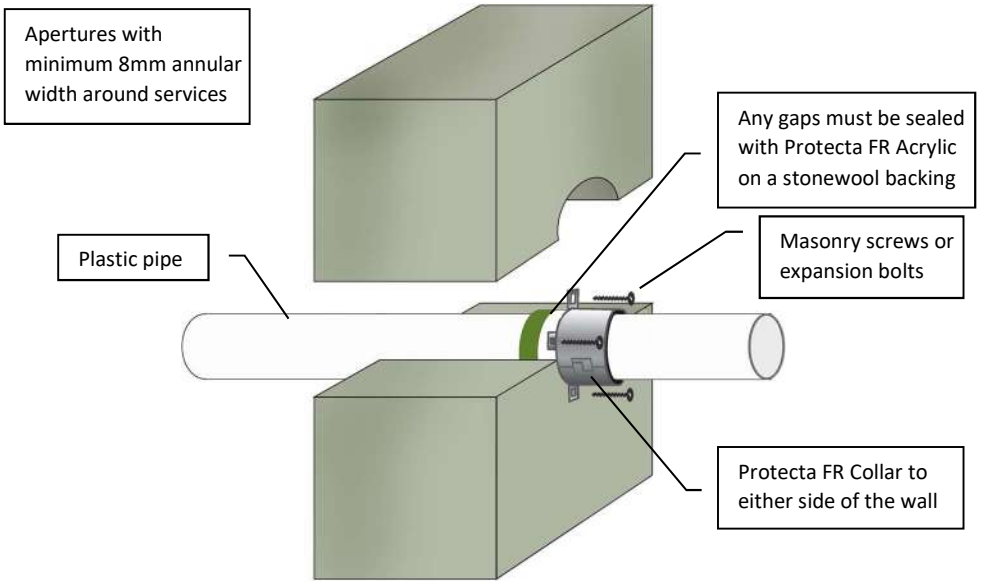
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collar ensure that the gaps between the pipe and the separating element are sealed with minimum 20mm deep Protecta FR Acrylic on 20mm deep stone wool 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 ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C (E 240)
≤ Ø110mm PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C (E 180)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 120 C/C, EI 120 U/C (E 180)
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C
≤ Ø50mm PP	50mm	EI 90 C/C, EI 90 U/C

ETA 22/0752 UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic
Stone wool

Application Fire stopping of plastic pipes in rigid walls

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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

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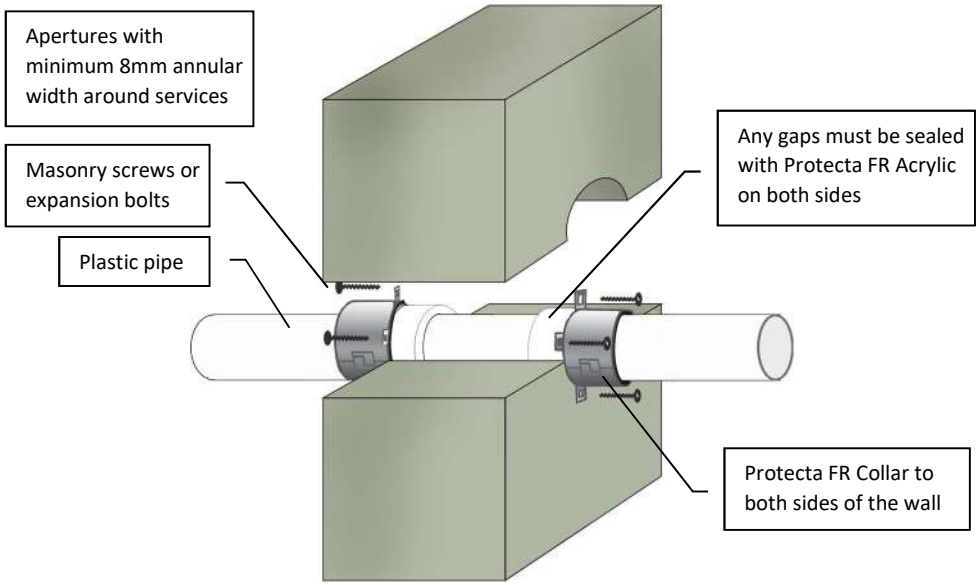
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	22/8/21
Scale:	Drawn by:
NTS	K.B

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 suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
≤ Ø140mm PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
Ø315x9.2mm PVC-U & PVC-C	75mm	EI 60 C/C
≤ Ø50mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø140mm PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
Ø160mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
Ø200x18.2mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
Ø250x22.7mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
≤ Ø50mm PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø110mm PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U

ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Scale:	Drawn by:
NTS	K.B

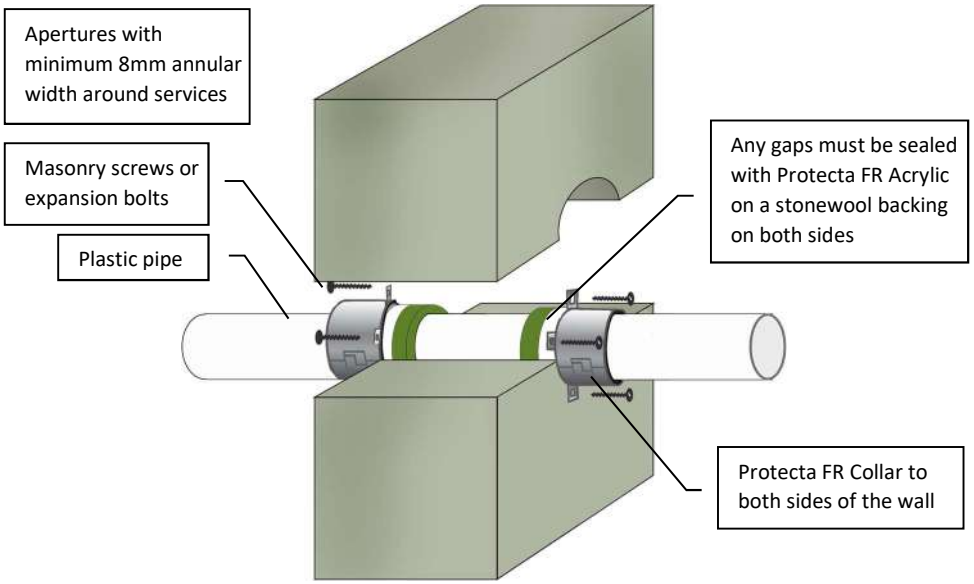
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe and the separating element are sealed with minimum 20mm deep Protecta FR Acrylic on 20mm deep stone wool to cover the opening.
2. Place suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
≤ Ø110mm PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
≤ Ø160mm PVC-U & PVC-C	60mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
Ø315x9.2mm PVC-U & PVC-C	75mm	EI 120 C/C
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
Ø200x18.2mm PE, ABS & SAN+PVC	75mm	EI 60 C/C
Ø250x22.7mm PE, ABS & SAN+PVC	75mm	EI 90 C/C (E 120)
≤ Ø50mm PP	30mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
≤ Ø110mm PP	50mm	EI 240 C/C, EI 240 U/C, EI 90 C/U, EI 90 U/U (E 240)
≤ Ø140mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U (E 240)
Ø160mm PP	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic
Stonewool

Application Fire stopping of plastic pipes in rigid walls

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

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

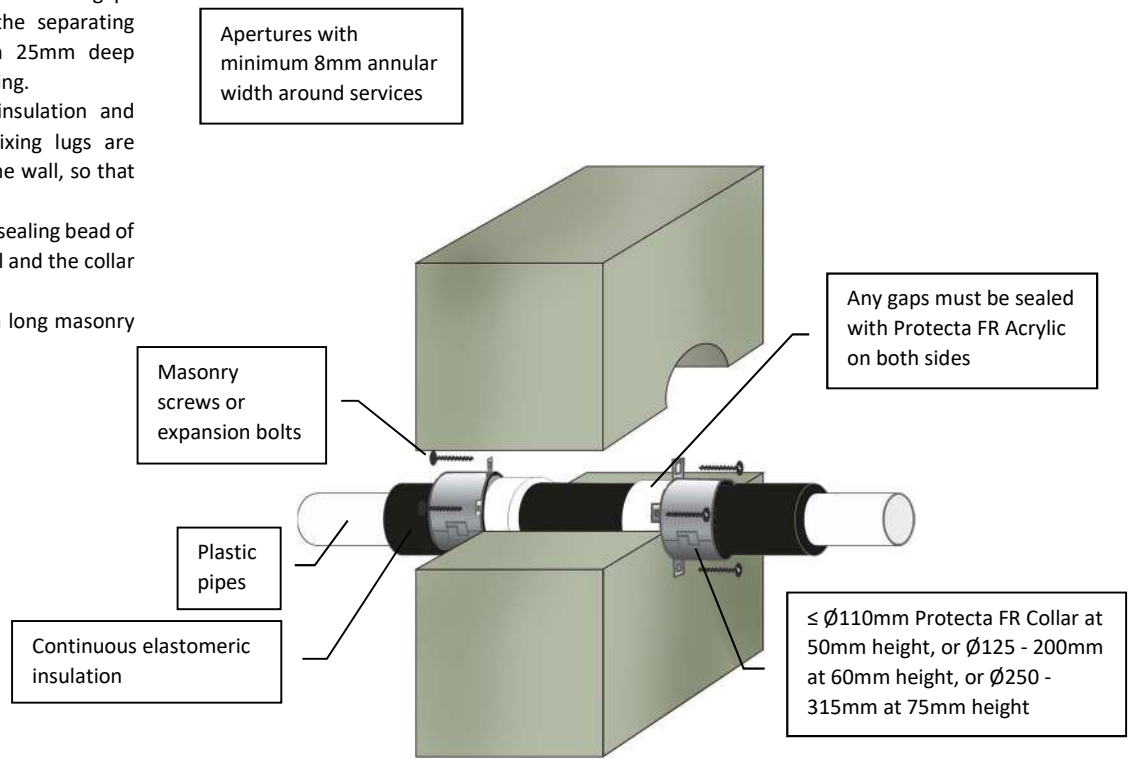
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	20/8/19
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of insulated plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe Ø160mm with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe Ø160mm with wall thickness 4.9 – 14.6mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

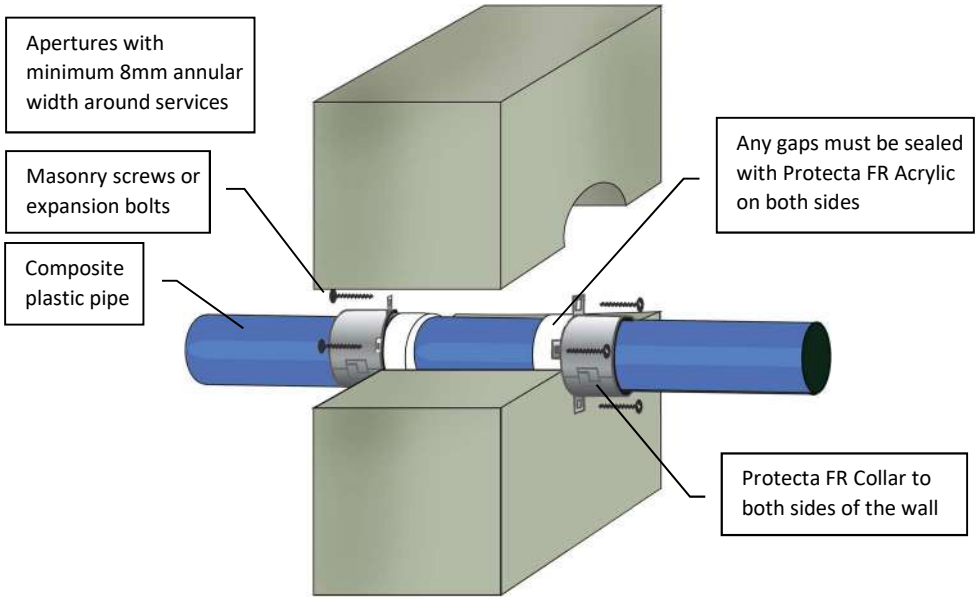
Sound reduction (seal only) Rw 62 dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

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 suitable collars 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 120 C/C (E 120)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 60 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 90 U/U (E 120)
≤ Ø110mm BluePower	50mm	EI 60 C/U (E 120)
Ø125mm BluePower	60mm	EI 60 C/U (E 60)
Ø160mm BluePower	60mm	EI 90 C/U (E 90)
≤ Ø50mm Geberit Silent-PP	50mm	EI 120 U/U (E 120)
≤ Ø110mm Geberit Silent-PP	50mm	EI 60 U/U (E 120)
≤ Ø160mm Geberit Silent-PP	60mm	EI 90 U/C (E 90)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 120 U/U (E 120)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 90 U/U (E 120)
Ø125mm Polo-Kal NG pipes	60mm	EI 120 U/C (E 120 U/U)

Services	Minimum Collar Height	Classification
Ø160mm Polo-Kal NG pipes	60mm	EI 120 U/U (E 120)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 90 U/U (E 120)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 60 U/U (E 120)
≤ Ø160mm Rehau Raupiano Plus	60mm	EI 120 U/U (E 120)
≤ Ø110mm Uponor Decibel pipes	50mm	EI 60 U/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 90 U/U (E 120)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 120)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 120)
≤ Ø200mm Wavin AS+	60mm	EI 90 U/C (E 120)
≤ Ø50mm Wavin SiTech	50mm	EI 120 U/U (E 120)
≤ Ø110mm Wavin SiTech	50mm	EI 60 U/U (E 120)

ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of composite plastic pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

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

Sound reduction (seal only)

Rw 62dB

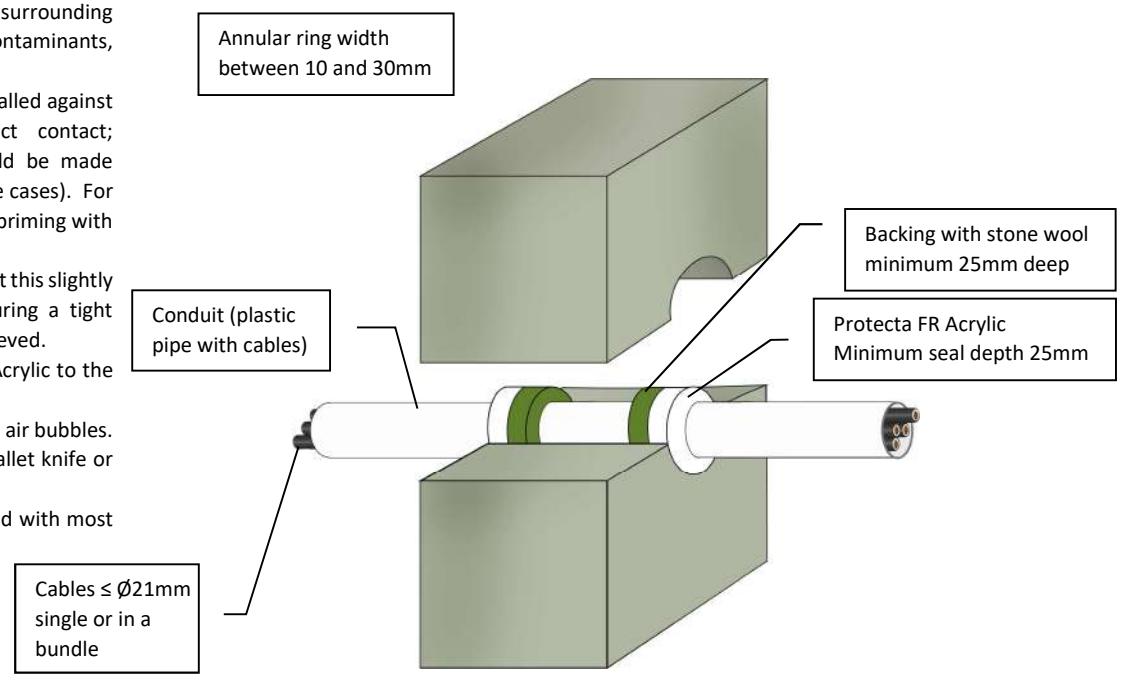
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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A4	13/5/24
Scale:	Drawn by:
NTS	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 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of conduits in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

PVC conduit/pipe ≤ Ø32mm with wall thickness 1.0 – 2.4mm — EI 120 U/C & E 240

PVC conduit/pipe ≤ Ø40mm with wall thickness 3.0mm — EI 120 U/C & E 240

PE or ABS conduit/pipe ≤ Ø32mm with wall thickness 2.0-4.4mm — EI 120 U/C & E 120

PE or ABS conduit/pipe ≤ Ø40mm with wall thickness 3.7mm — EI 240 U/C & E 240

PP conduit/pipe ≤ Ø32mm with wall thickness 1.8 – 4.4mm — EI 120 U/C & E 180

PP conduit/pipe ≤ Ø40mm with wall thickness 3.7mm — EI 120 U/C & E 180

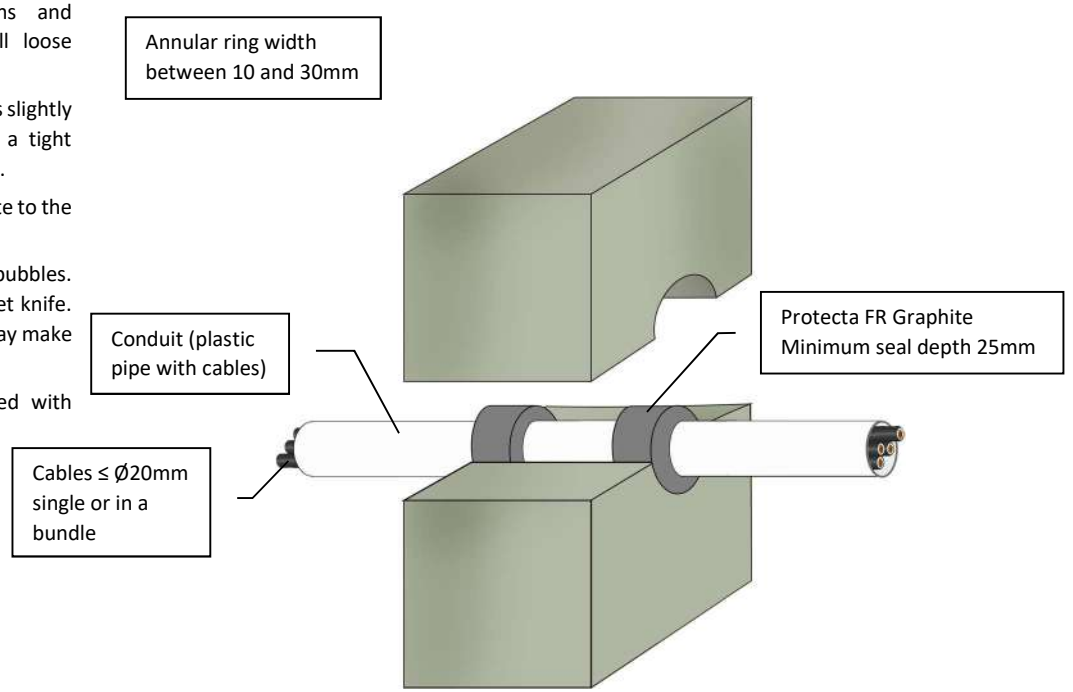
Sound reduction (seal only) — Rw 62dB

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Email: post.uk@polyseam.com

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A4	10/3/24
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite
Application	Fire stopping of conduits in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PE, ABS or SAN+PVC conduit/pipe ≤ Ø110mm with wall thickness 2.4 - 10.0mm	EI 60 U/C
PP conduit/pipe ≤ Ø110mm with wall thickness 2.7 - 6.6mm	EI 90 U/C
PVC-U or PVC-C conduit/pipe ≤ Ø110mm with wall thickness 1.9 - 6.6mm	EI 90 U/C
Sound reduction (seal only)	Rw 53dB

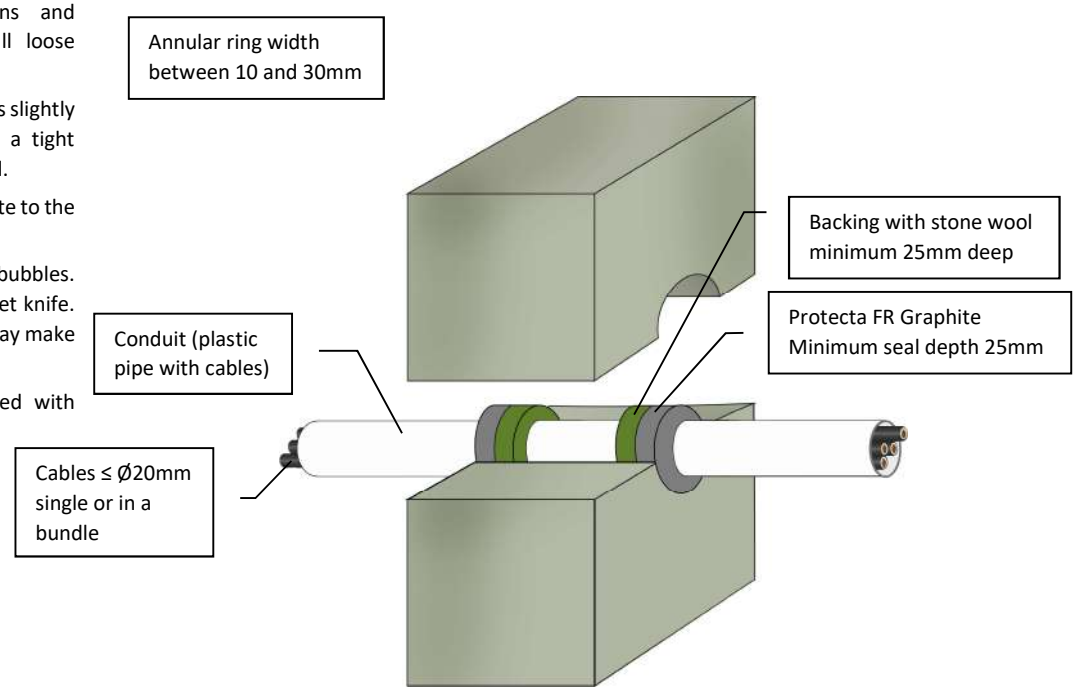
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of conduits in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

PVC-U or PVC-C conduit/pipe ≤ Ø110mm with wall thickness 1.9 - 6.6mm

EI 120 U/C & E 120

Sound reduction (seal only)

Rw 53dB

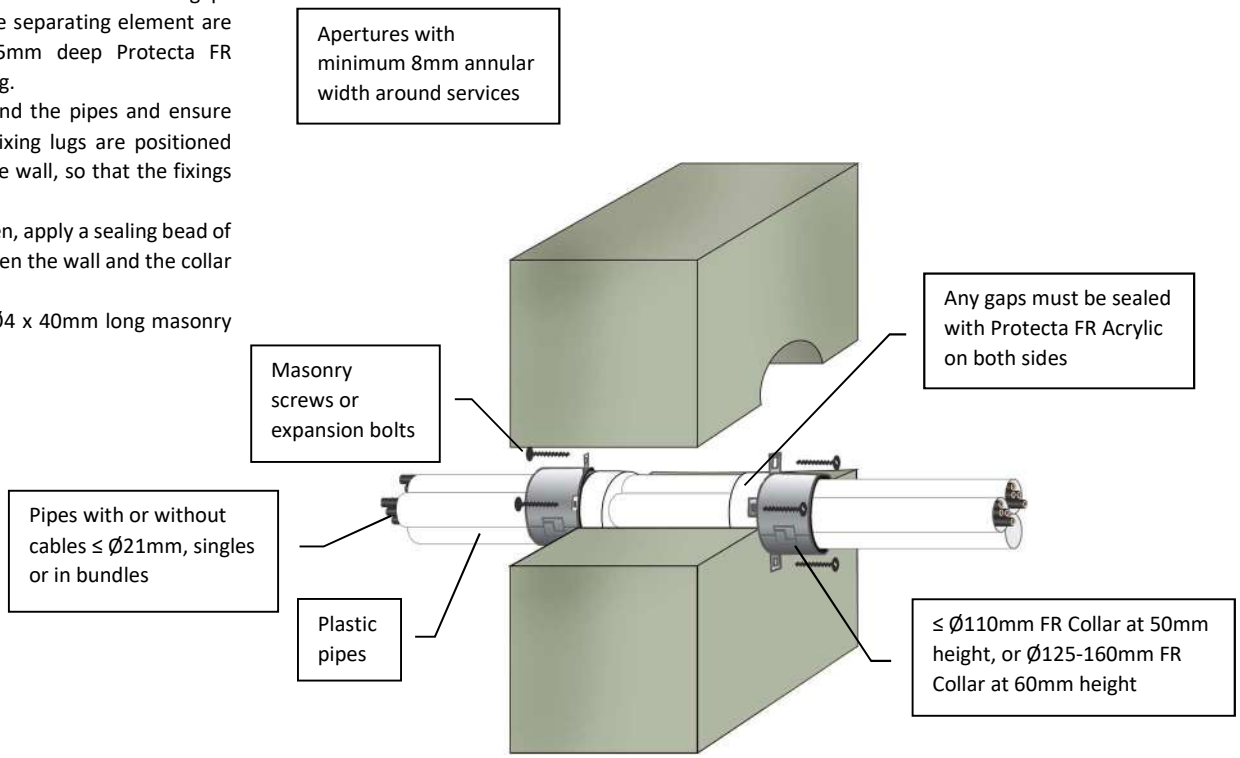
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 4/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipes and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes and cables in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 62 dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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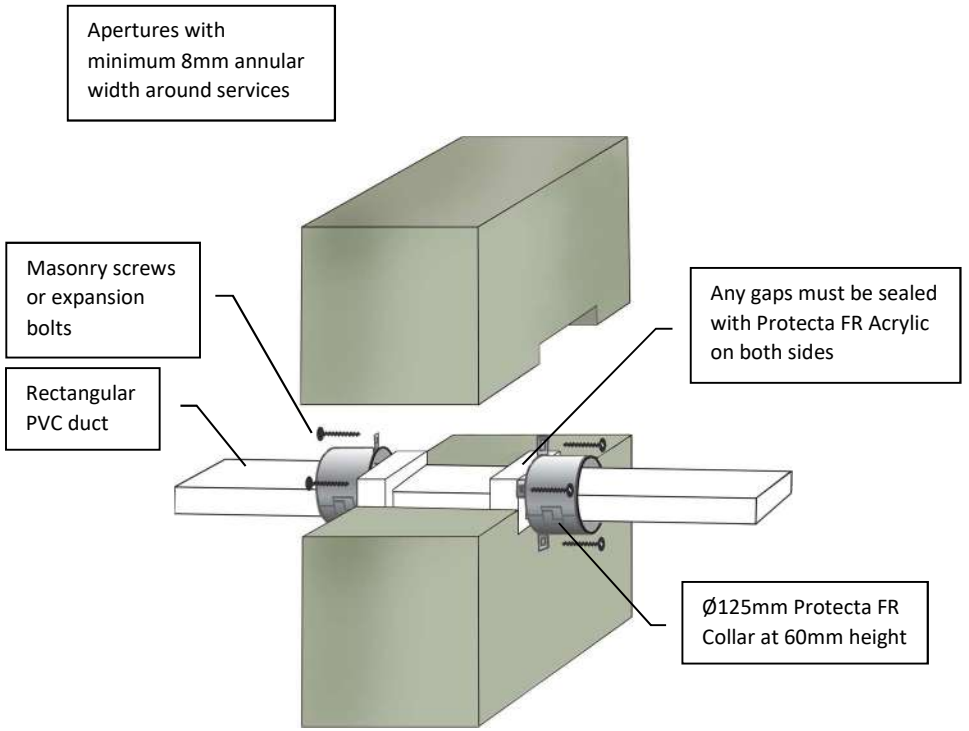
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 30/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the duct and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place the collars around the duct and ensure that the collar shells 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 collars with ≥ Ø4 x 40mm long masonry screws or expansion bolts.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic ducts in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Fire & Sound classification

PVC rectangular duct 54 x 110mm with wall thickness approx. 2mm

EI 60 U/U & E 120

Sound reduction (seal only)

58dB

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Tel: +44 (0) 148 4421036
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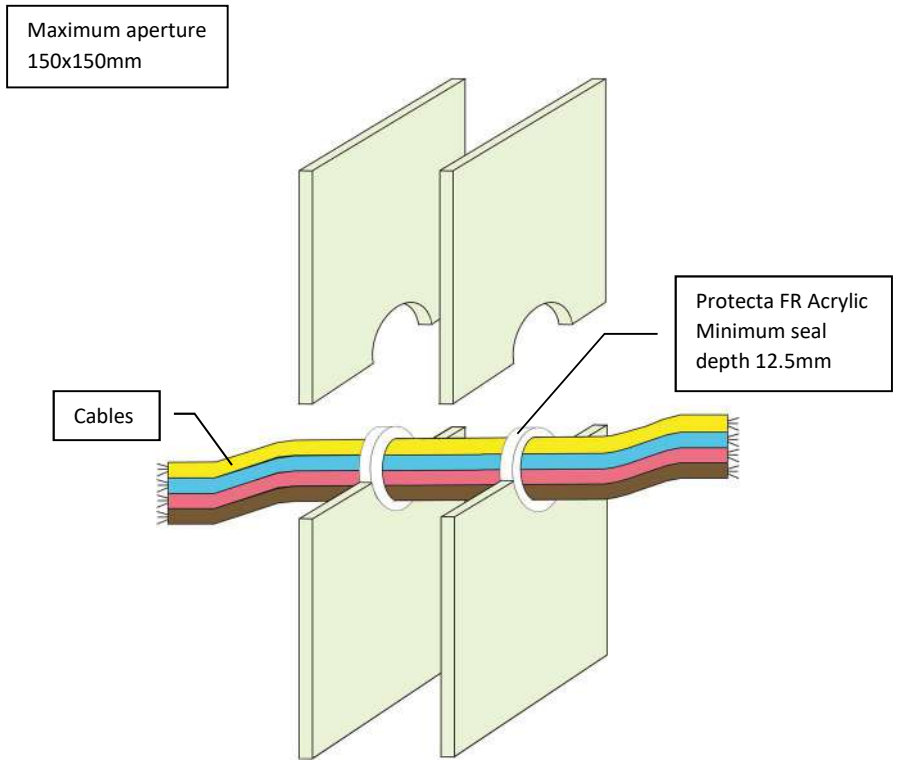
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall 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

Fire & Sound classification

Cable ≤ Ø21mm
EI 45 & E 60

Cables ≤ Ø21mm in a bundle ≤ Ø100mm
EI 30 & E 45

Sound reduction (seal only)
Rw 62 dB

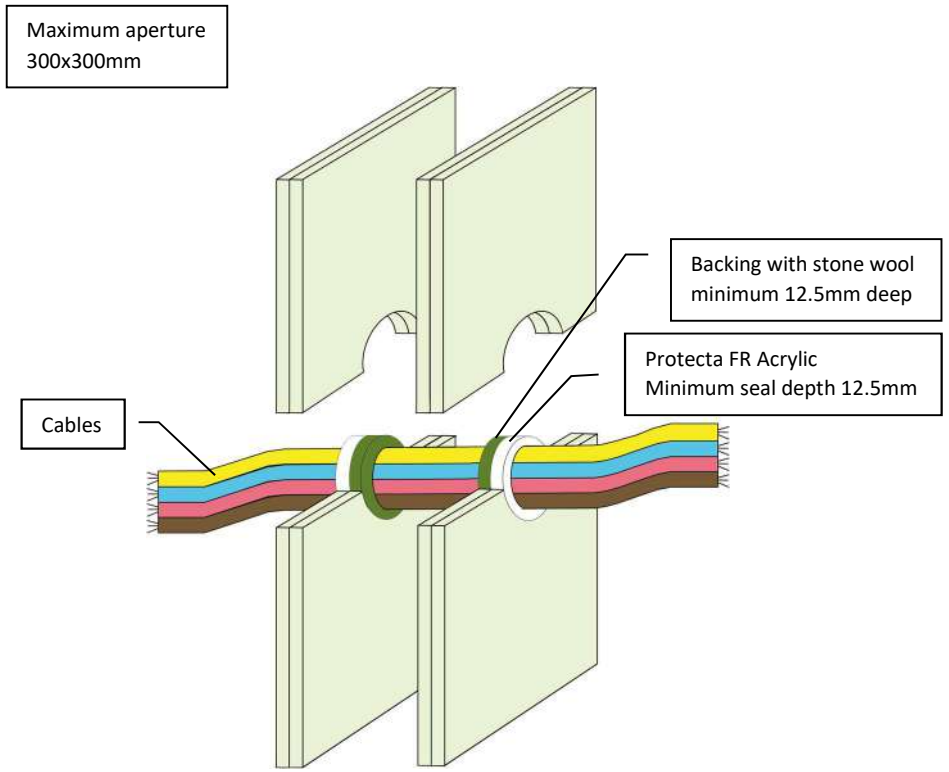
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Cables ≤ Ø21mm single or in a bundle ≤ Ø50mm
EI 90 & E 120

Sound reduction (seal only)
Rw 62 dB

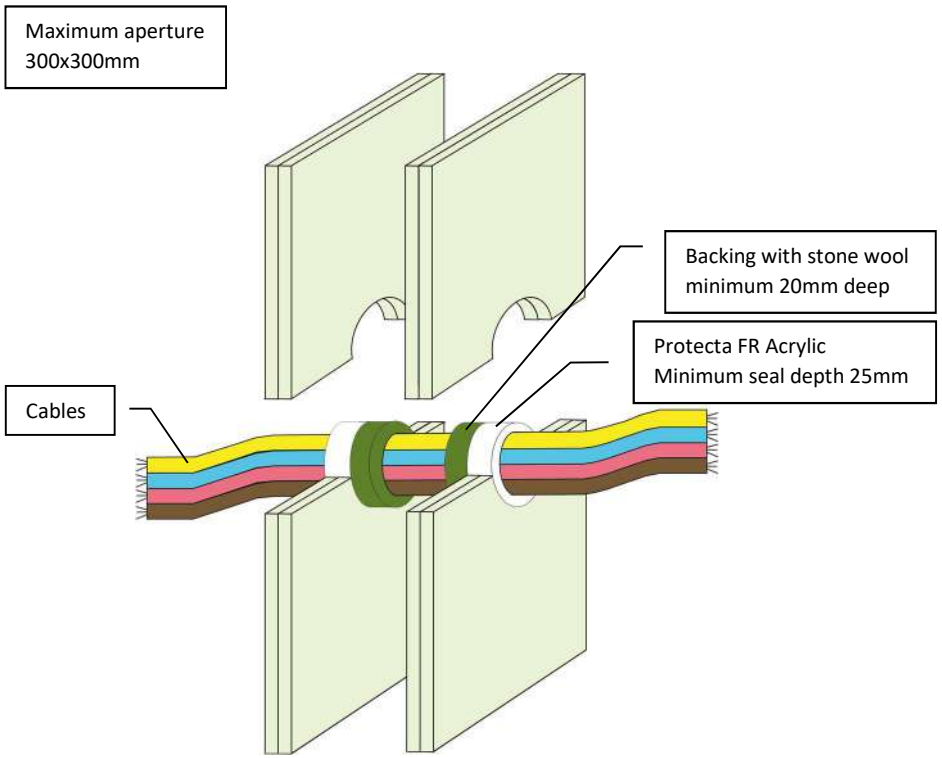
Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/8/19
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Cables ≤ Ø21mm single or in a bundle ≤ Ø100mm

EI 120 & E 120

Sound reduction (seal only)

Rw 62 dB

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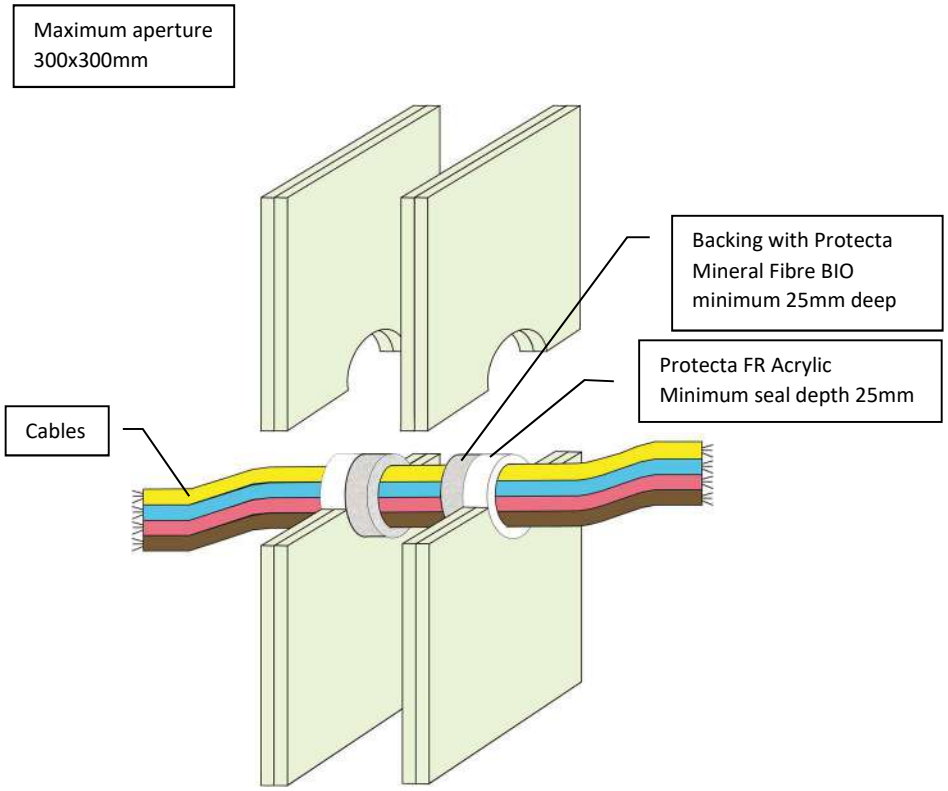
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 20/4/15
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Cables ≤ Ø80mm single or in a bundle ≤ Ø100mm

EI 60 & E 120

Sound reduction (seal only)

Rw 62 dB

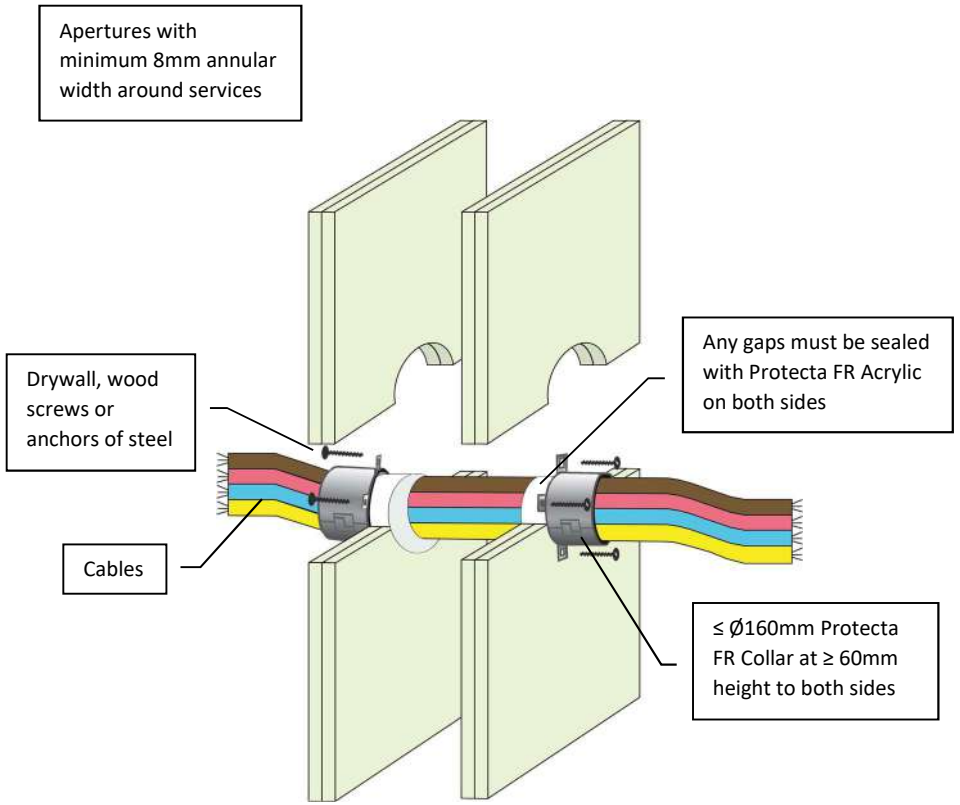
Protecta®

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 20/4/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the cable bundle and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the cables 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Cables ≤ Ø80mm in a bundle ≤ Ø160mm
EI 60 & E 120

Sound reduction (seal only)
Rw 62 dB

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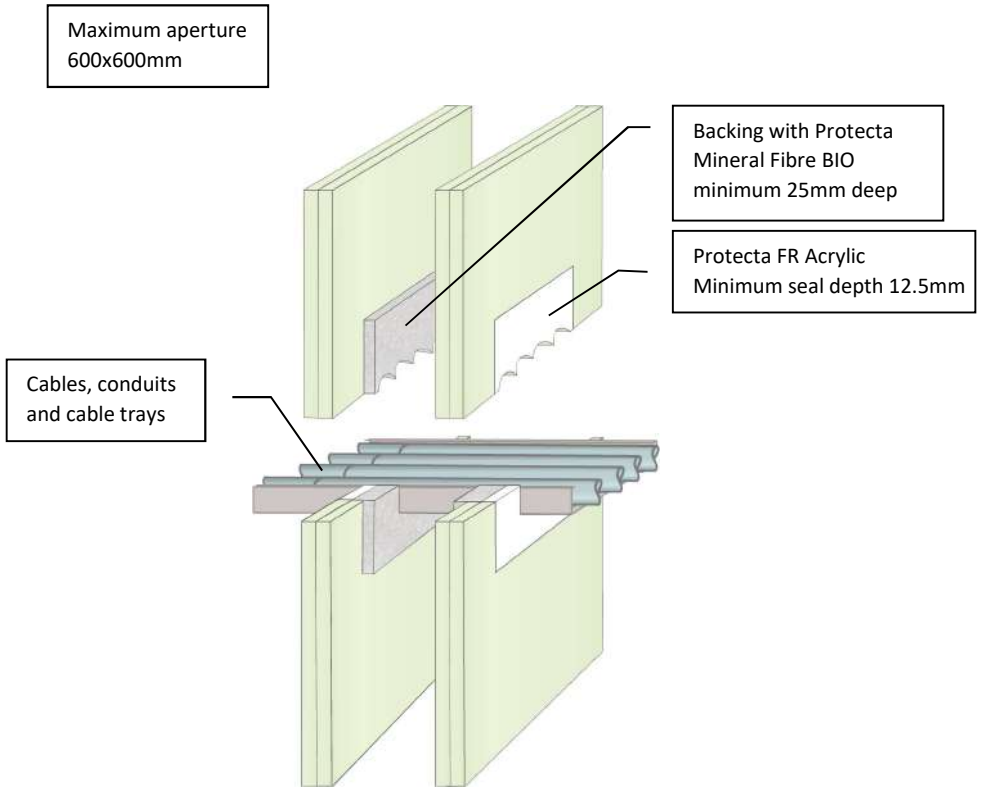
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 22/8/21
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables, conduits and cable trays in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Cables ≤ Ø21mm single and bundled, with cable trays	EI 60 & E 90
Cables ≤ Ø80mm and conduits ≤ Ø32mm, single and bundled, with or without trays	EI 30 & 60
Sound reduction (seal only)	Rw 62 dB

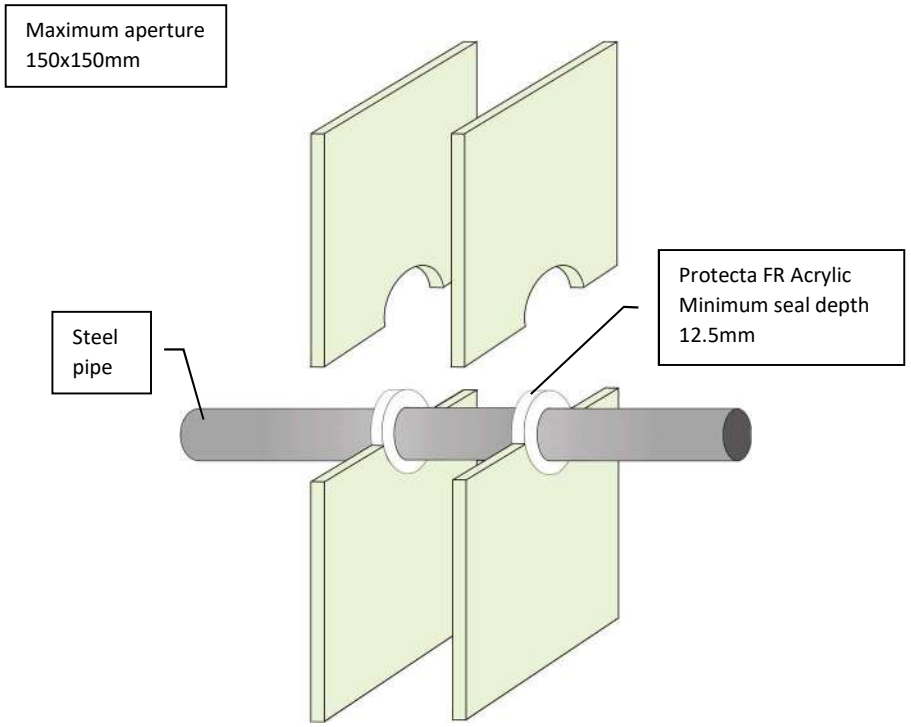
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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall 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

Fire & Sound classification

Steel pipe ≤ Ø22mm without pipe insulation
EI 30 C/U & E 60

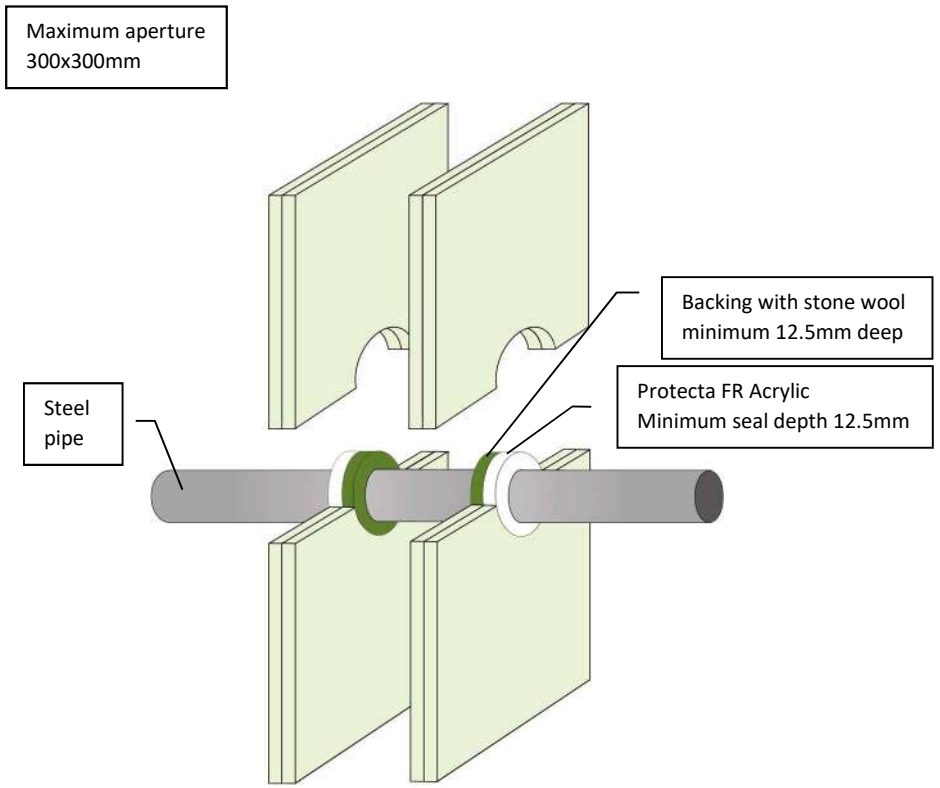
Sound reduction (seal only)
Rw 62dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 8/4/18
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø30mm without pipe insulation
EI 90 C/C & E 90

Sound reduction (seal only)
Rw 62dB

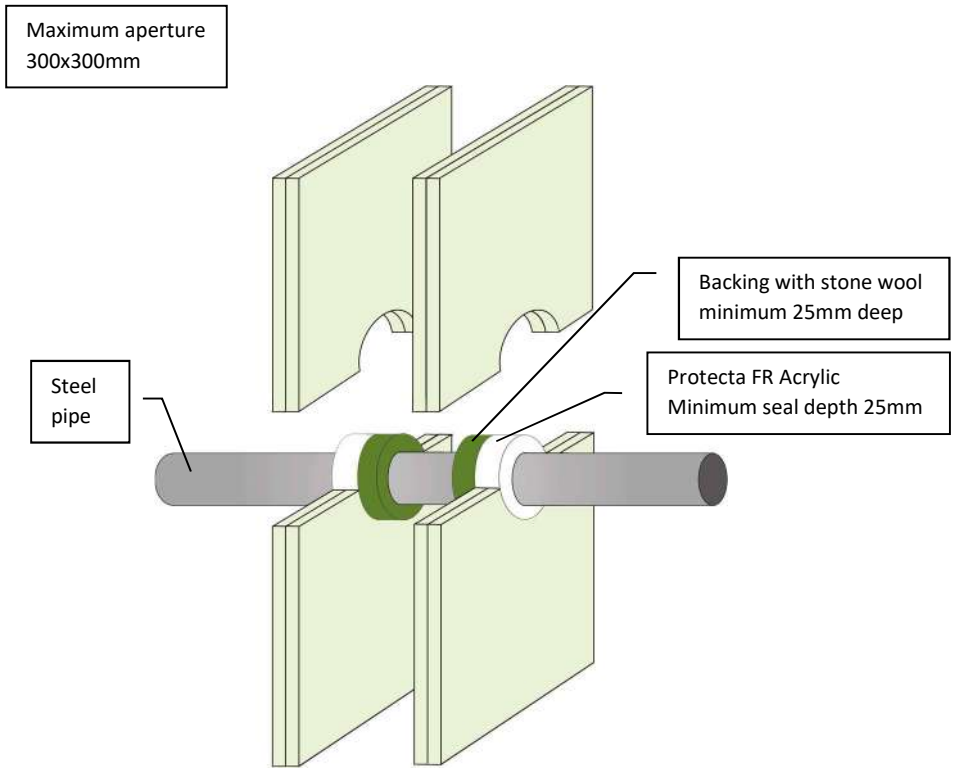
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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 8/4/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe Ø22 - Ø30mm without pipe insulation
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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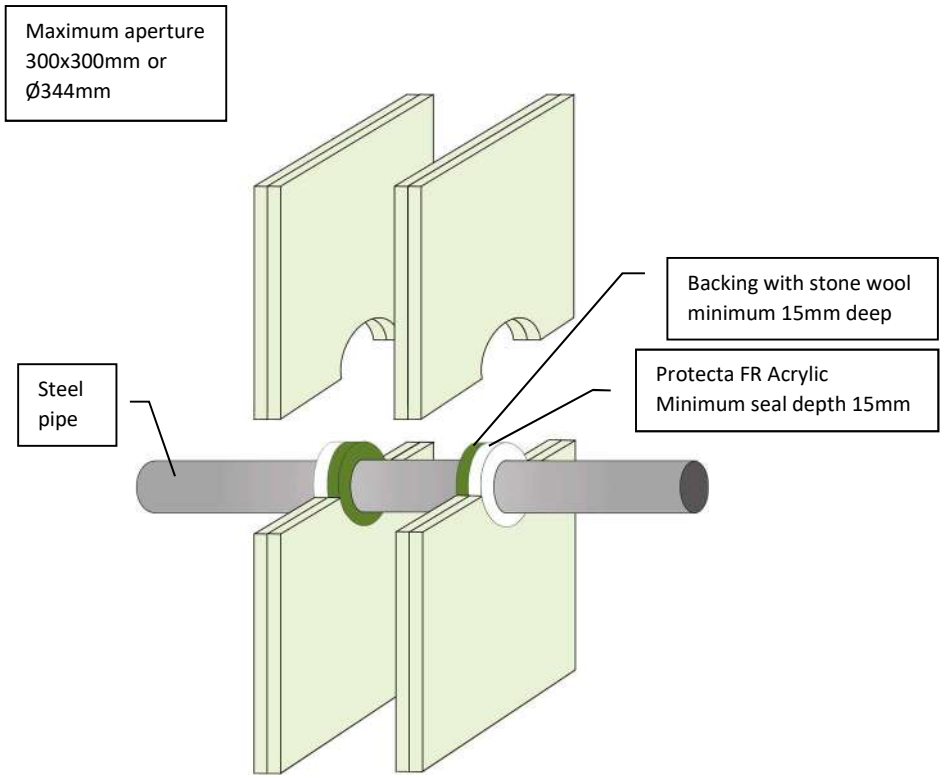
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Signed and approved:

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Installation Instructions

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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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø324mm without pipe insulation
E 120 C/U

Sound reduction (seal only)
Rw 62dB

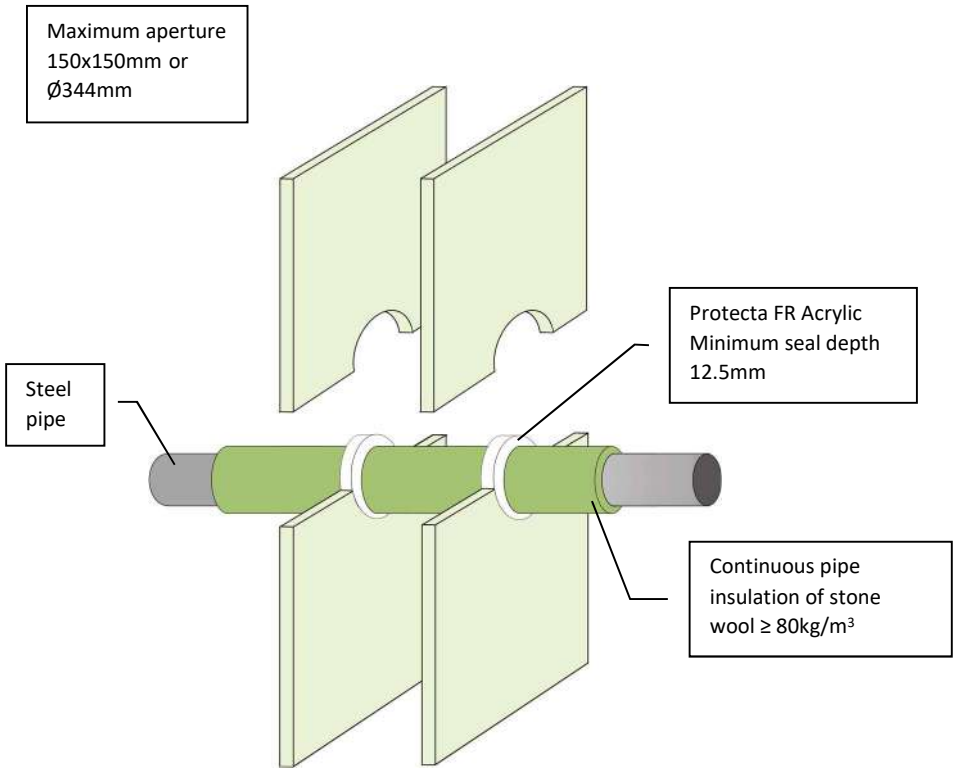
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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall 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.

Fire & Sound classification

Steel pipe ≤ Ø324mm with 20-30mm thick pipe insulation

EI 45 C/U & E 60

Sound reduction (seal only)

Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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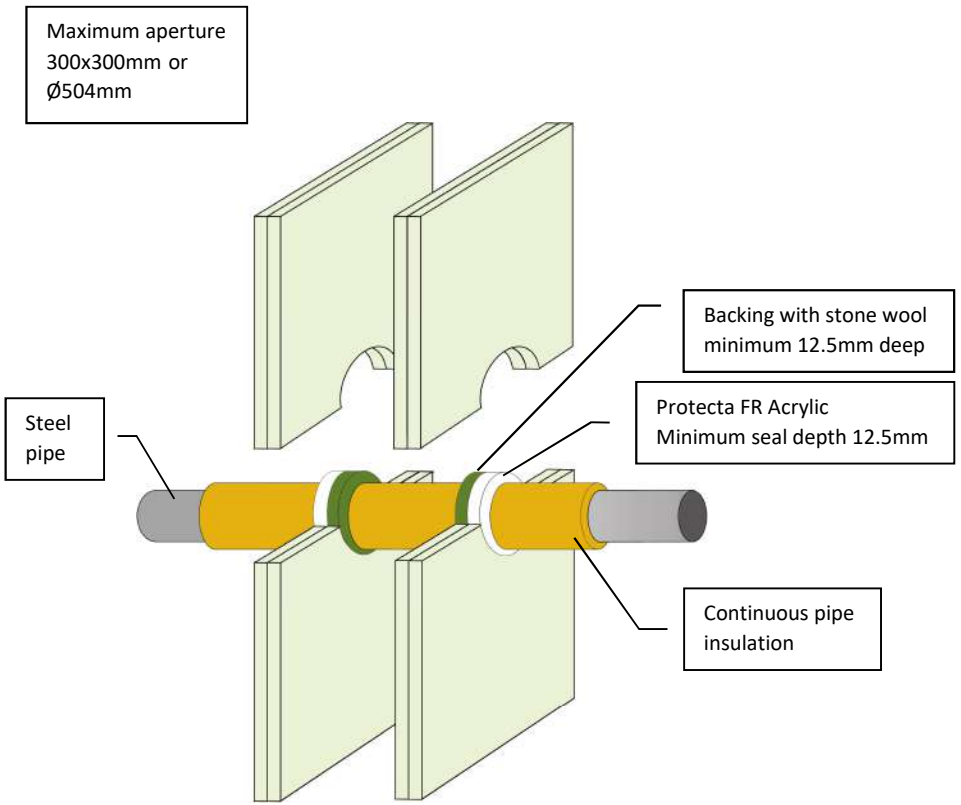
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 8/4/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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3. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø12mm with 20mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Steel pipe ≤ Ø273mm with 30-60mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Steel pipe ≤ Ø324mm with 20-80mm thick pipe insulation of stone wool ≥ 80kg/m³
EI 90 C/U & E 120

Sound reduction (seal only) Rw 62dB

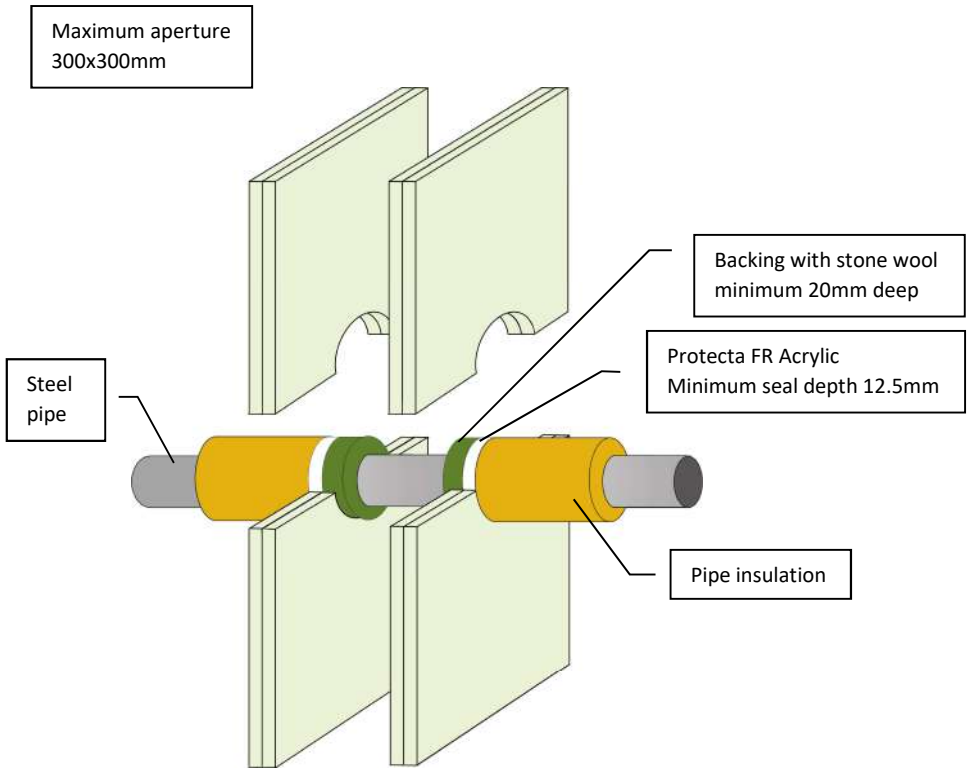
Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 10/3/24
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 50cm on both sides — EI 120 C/U & E 120

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 50cm on both sides — EI 90 C/U & E 120

Steel pipe ≤ Ø273mm with ≥ 30mm thick pipe insulation of glass- or stone wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 60 C/C & E 120

Sound reduction (seal only) — Rw 62dB

Protecta®

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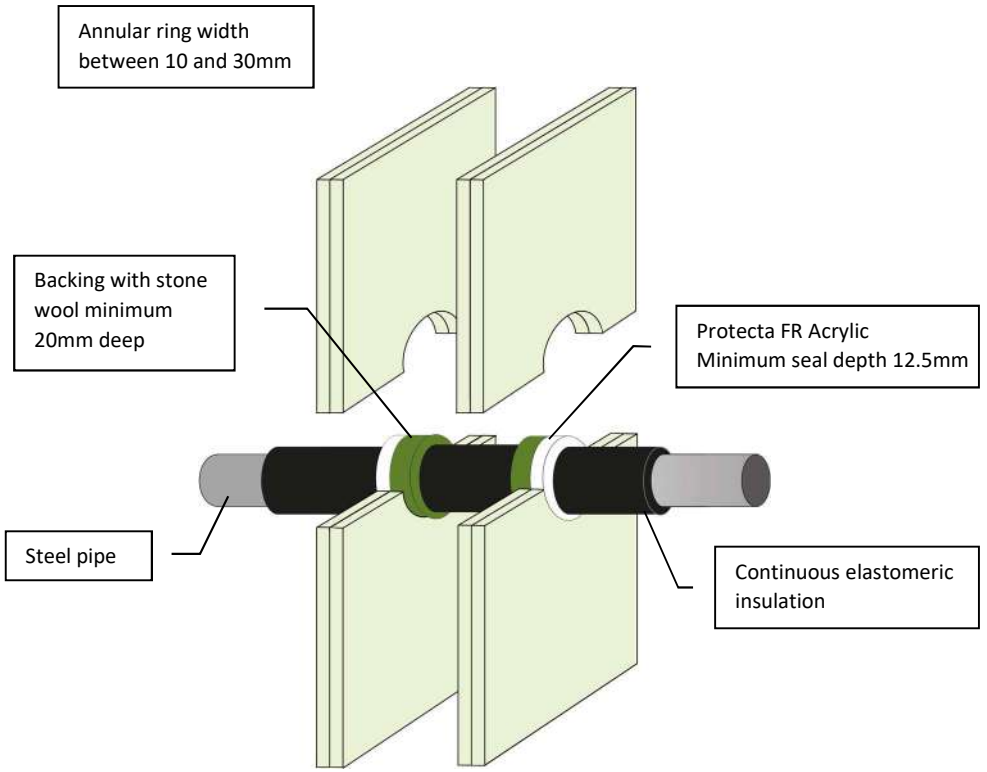
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 10/3/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø40mm with 13 – 19mm thick pipe insulation	EI 120 C/C & E 120
Steel pipe ≤ Ø165mm with 9mm thick pipe insulation	EI 45 C/U & E 90
Steel pipe ≤ Ø165mm with 13 – 25mm thick pipe insulation	EI 60 C/U & E 60
Sound reduction (seal only)	Rw 62dB

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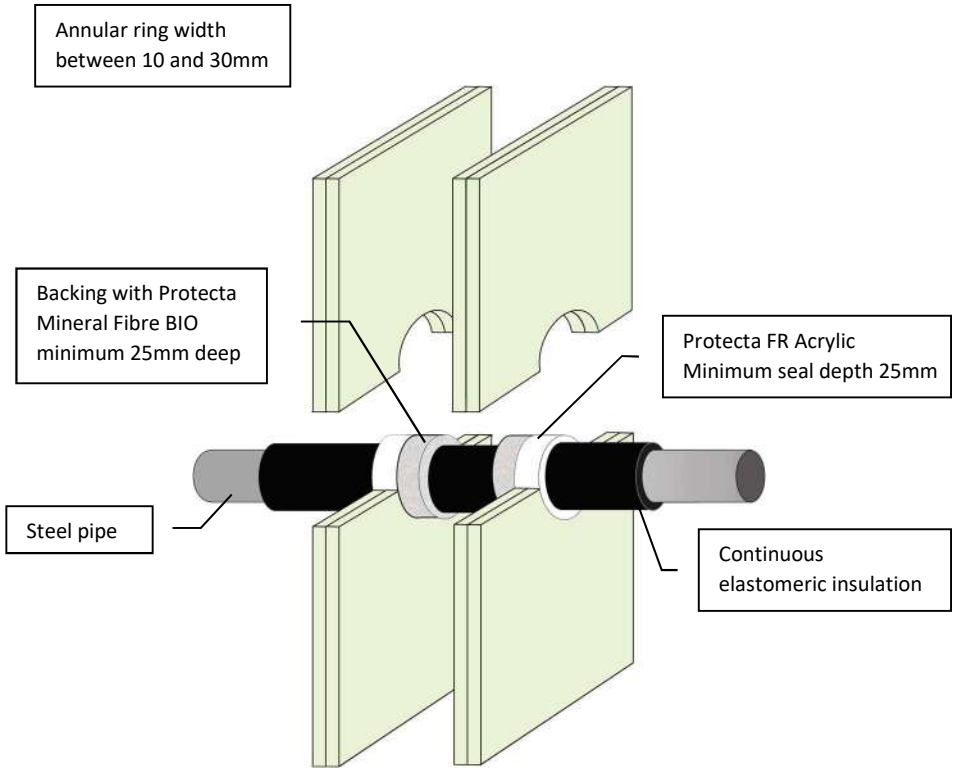
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø165mm with 13 – 19mm thick pipe insulation

EI 60 C/C & E 120

Sound reduction (seal only)

Rw 62dB

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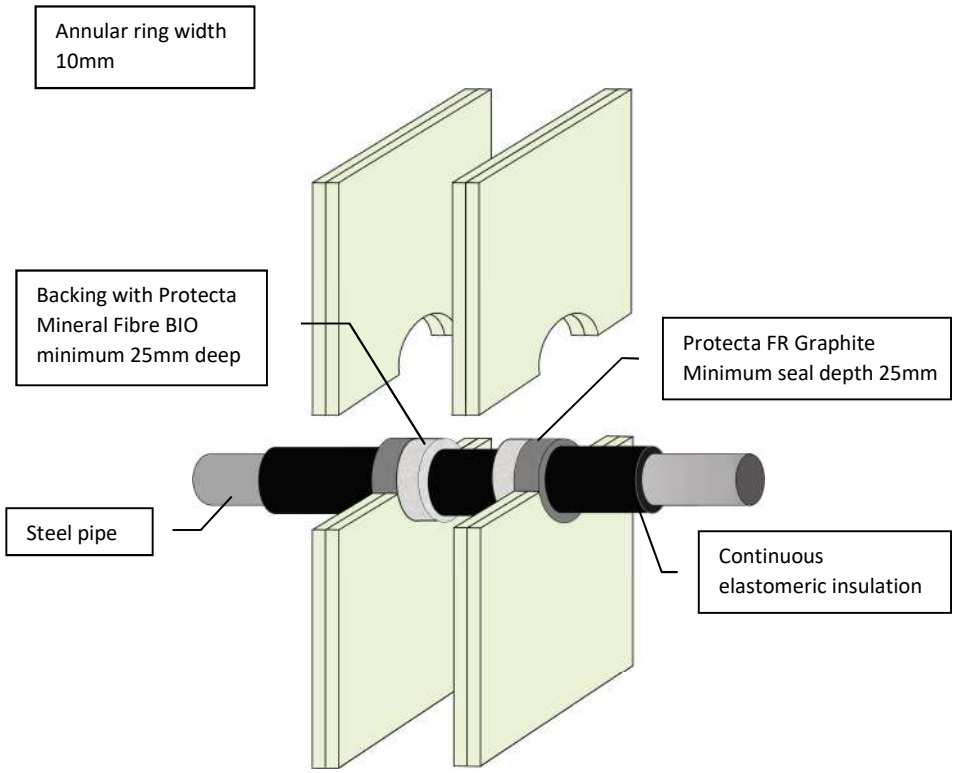
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size: **A4**	Drawn date & no: 23/4/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø15mm with 25 – 50mm thick pipe insulation
EI 60 C/C & E 60

Steel pipe ≤ Ø324mm with 50mm thick pipe insulation
EI 60 C/U & E 60

Sound reduction (seal only) Rw 53dB

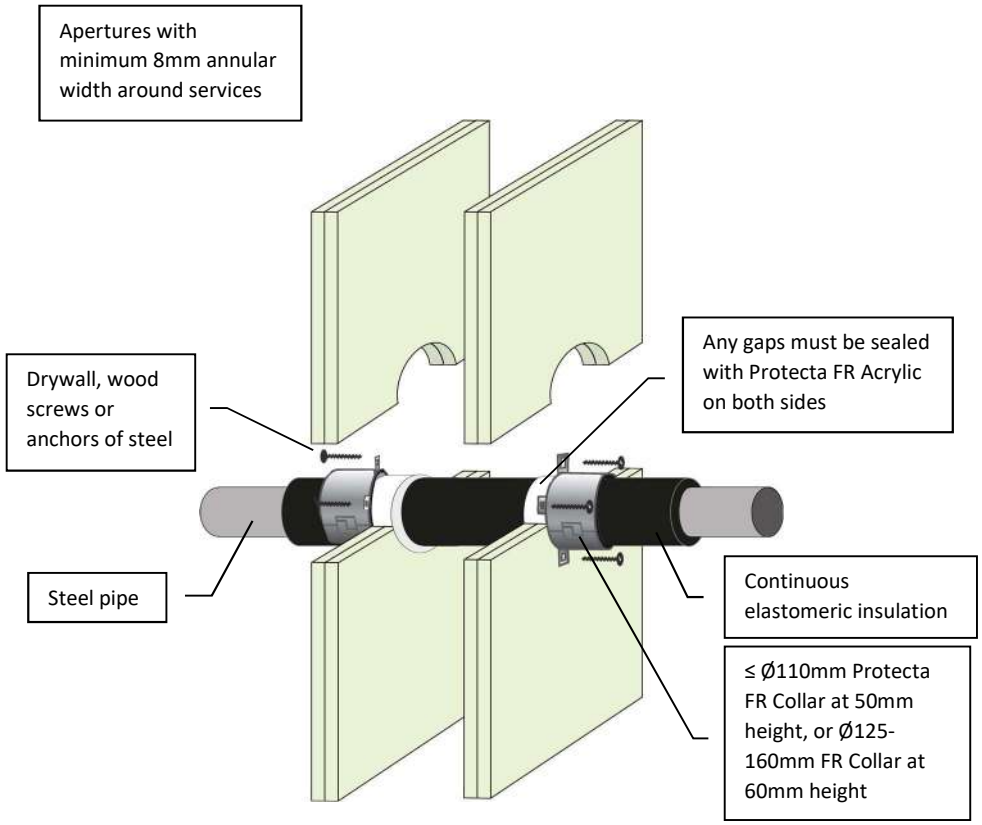
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 4/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Steel pipe ≤ Ø54mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 62 dB

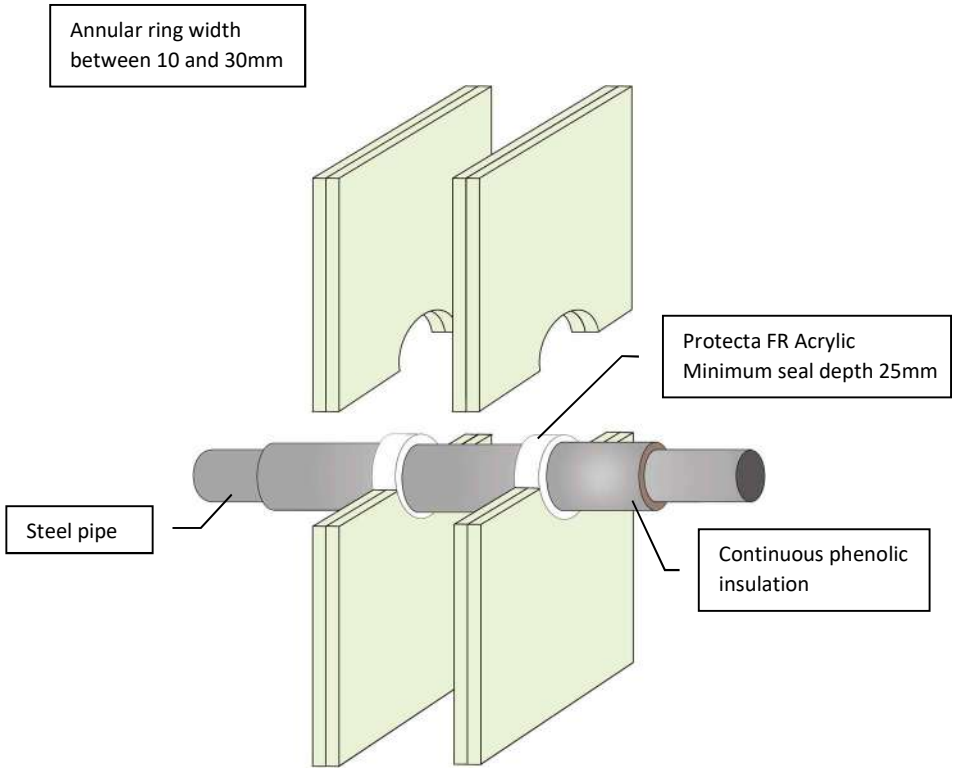
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 22/8/21
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø16mm with 15mm thick pipe insulation	EI 90 C/U & E 90
Steel pipe ≤ Ø273mm with 25mm thick pipe insulation	EI 60 C/U & E 90
Steel pipe ≤ Ø273mm with 26 – 100mm thick pipe insulation	EI 60 C/U & E 60
Sound reduction (seal only)	Rw 62dB

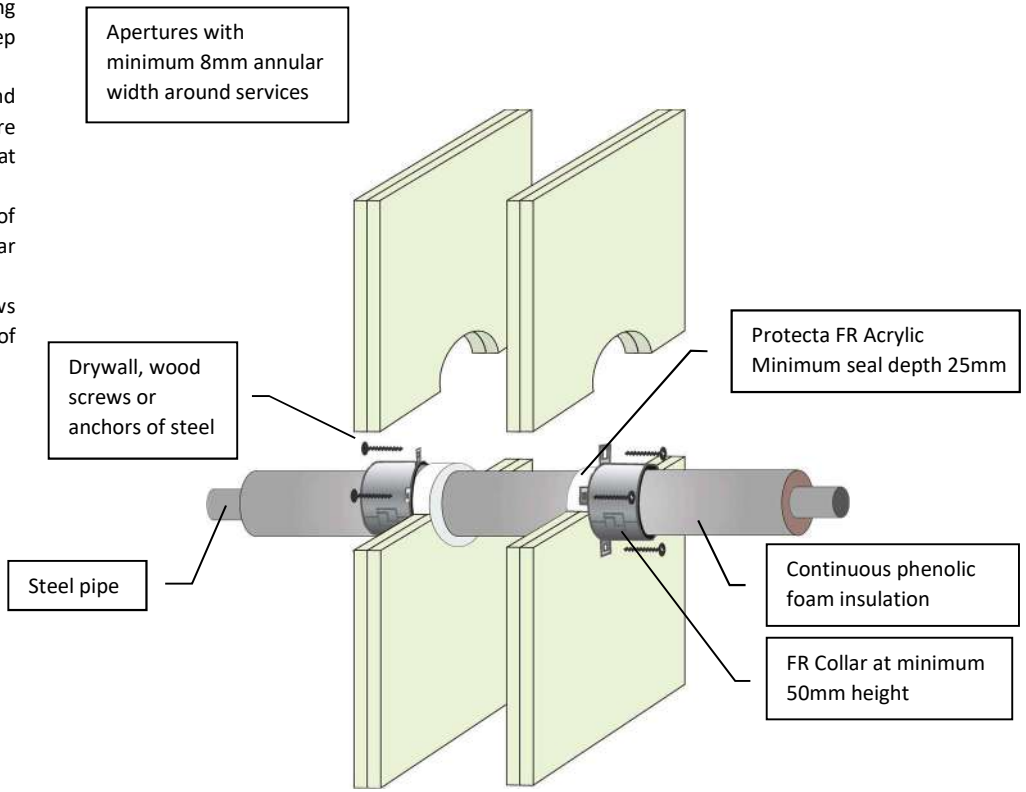
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of steel pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Steel pipe ≤ Ø12mm with 15mm thick pipe insulation EI 120 C/C & E 120

Steel pipe ≤ Ø108mm with 25mm thick pipe insulation EI 90 C/C & E 120

Sound reduction (seal only) Rw 58 dB

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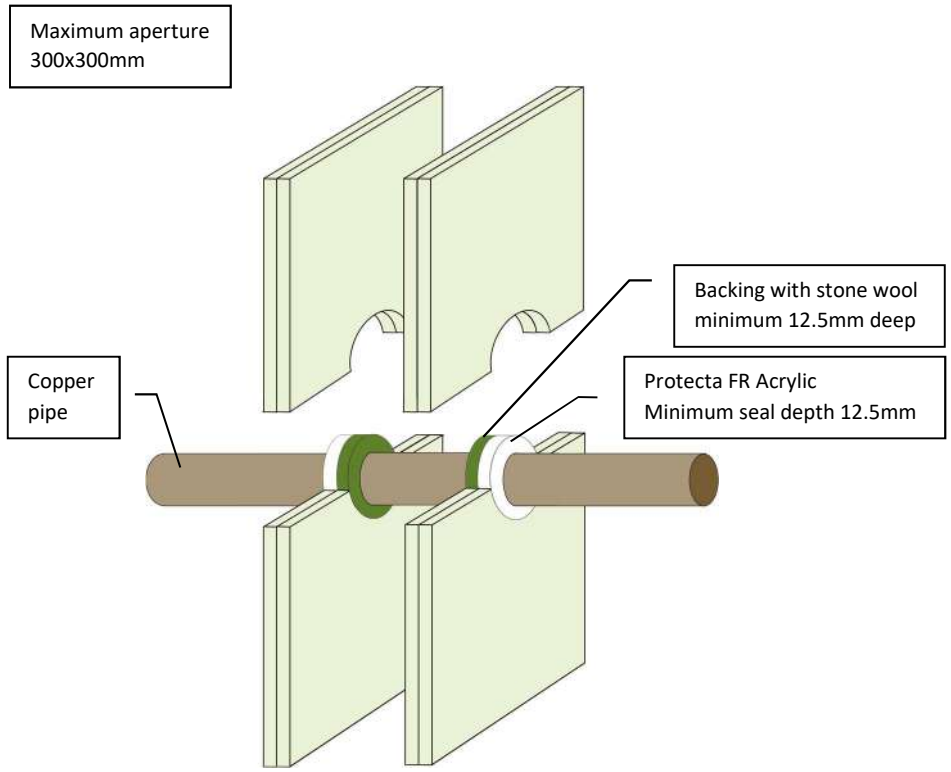
Signed and approved:

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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 12/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø12mm without pipe insulation
EI 60 C/C & E 90

Copper pipe Ø13-Ø22mm without pipe insulation
EI 30 C/C & E 90

Sound reduction (seal only)
Rw 62dB

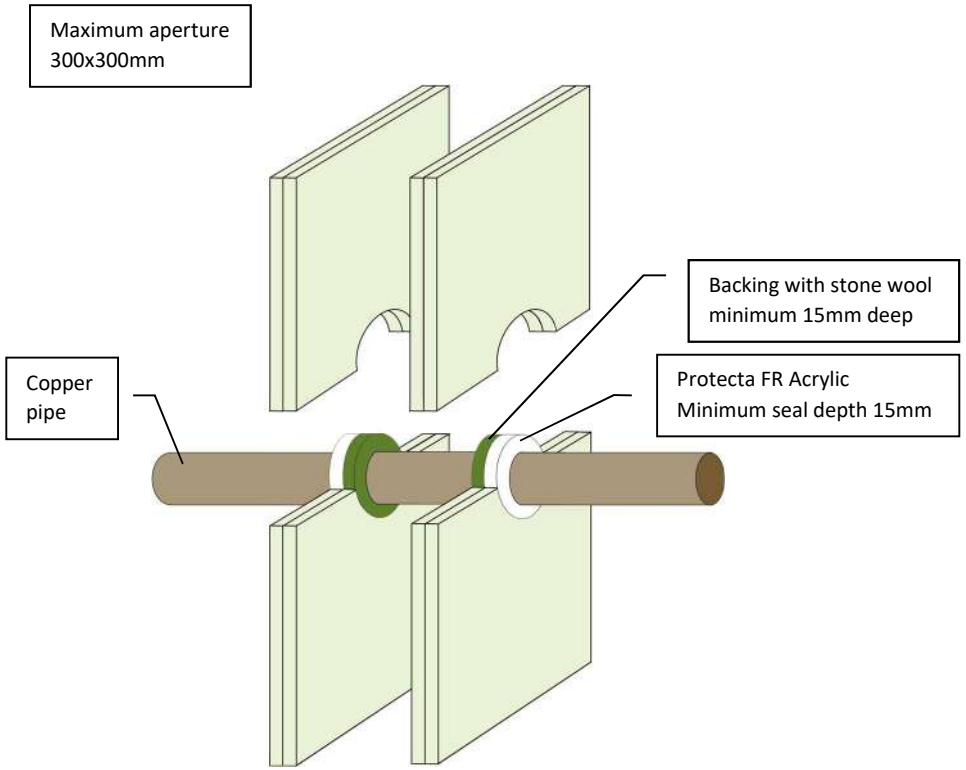
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø54mm without pipe insulation
E 120 C/C

Sound reduction (seal only)
Rw 62dB

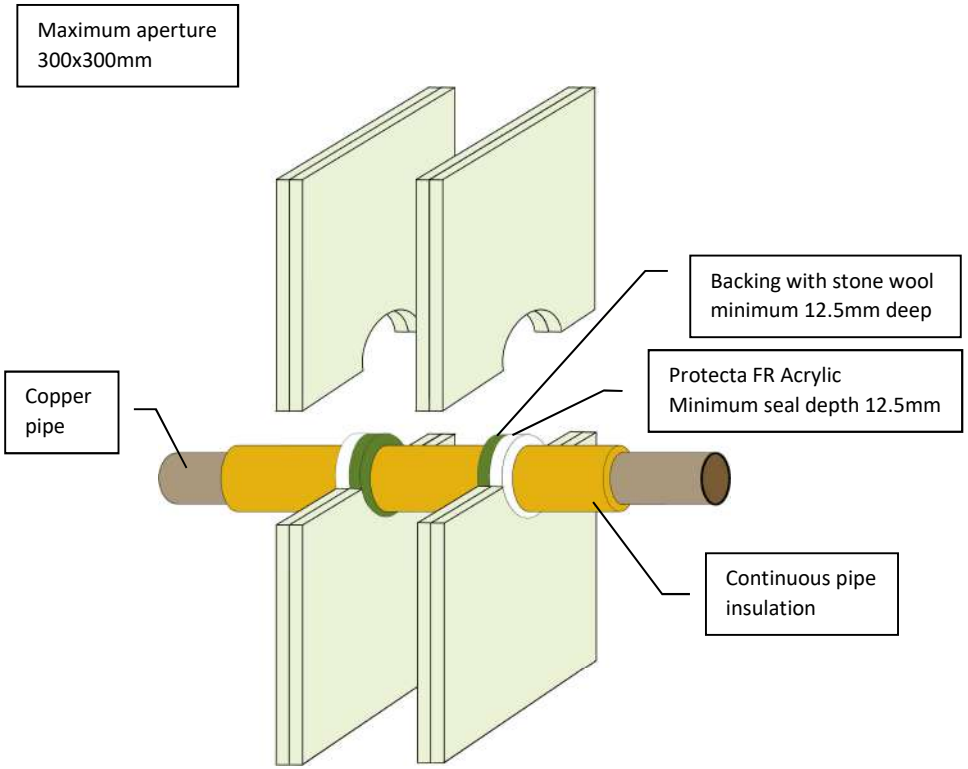
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3. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
4. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø54mm with 20-80mm thick pipe insulation of stone wool ≥ 80kg/m³
EI 60 C/C & E 120

Copper pipe ≤ Ø54mm with 20-60mm thick pipe insulation of glass wool ≥ 75kg/m³
EI 60 C/C & E 60

Sound reduction (seal only) Rw 62dB

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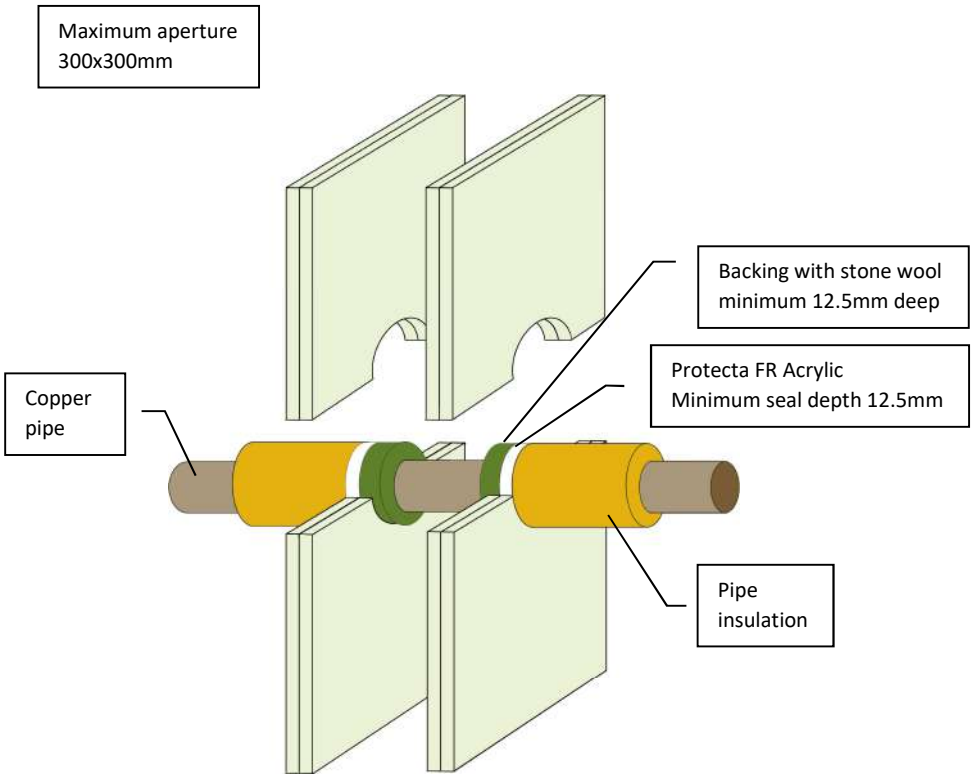
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 14/4/24
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø159mm with ≥ 30mm thick pipe insulation of stone wool ≥ 80kg/m³ ≥ 100cm on both sides — EI 60 C/C & E 60

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation of glass wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 60 C/C & E 120

Copper pipe ≤ Ø108mm with ≥ 30mm thick pipe insulation of glass wool ≥ 75kg/m³ ≥ 50cm on both sides — EI 30 C/C & E 120

Sound reduction (seal only) — Rw 62dB

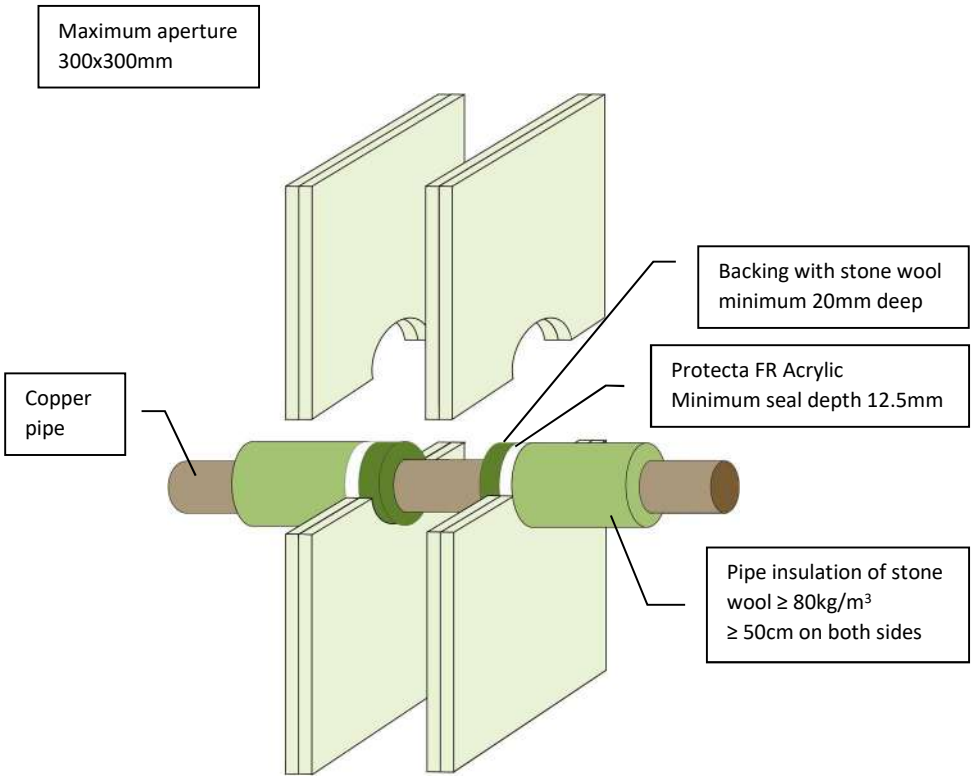
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation

EI 120 C/U & E 120

Sound reduction (seal only)

Rw 62dB

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Tel: +44 (0) 148 4421036
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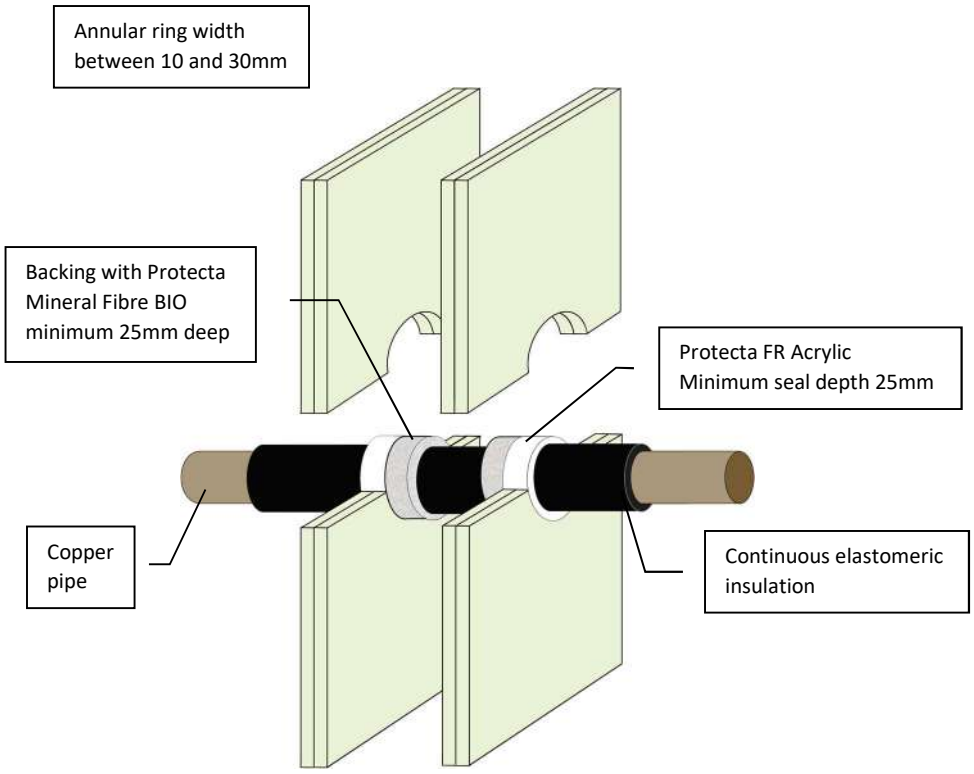
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size: **A4**	Drawn date & no: 23/4/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

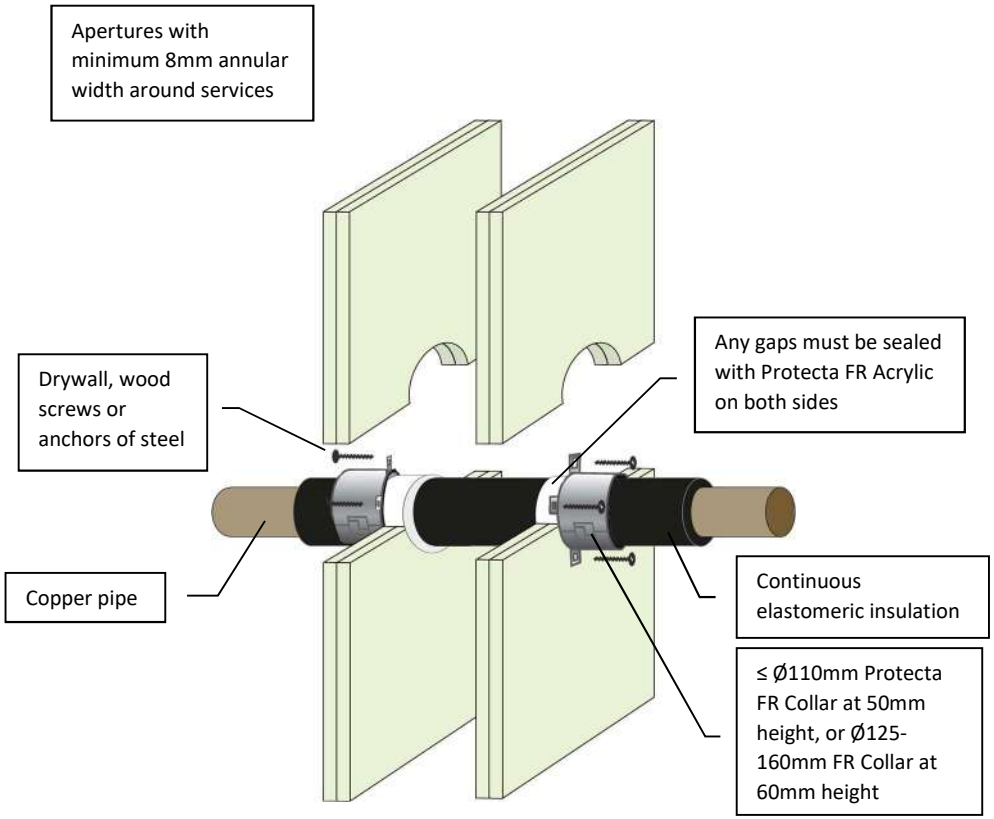
Copper pipe ≤ Ø12mm with 9mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø54mm with 9 – 18mm thick pipe insulation	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm with 19mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø54mm with 20 – 25mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Copper pipe ≤ Ø54mm with 14 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 62 dB

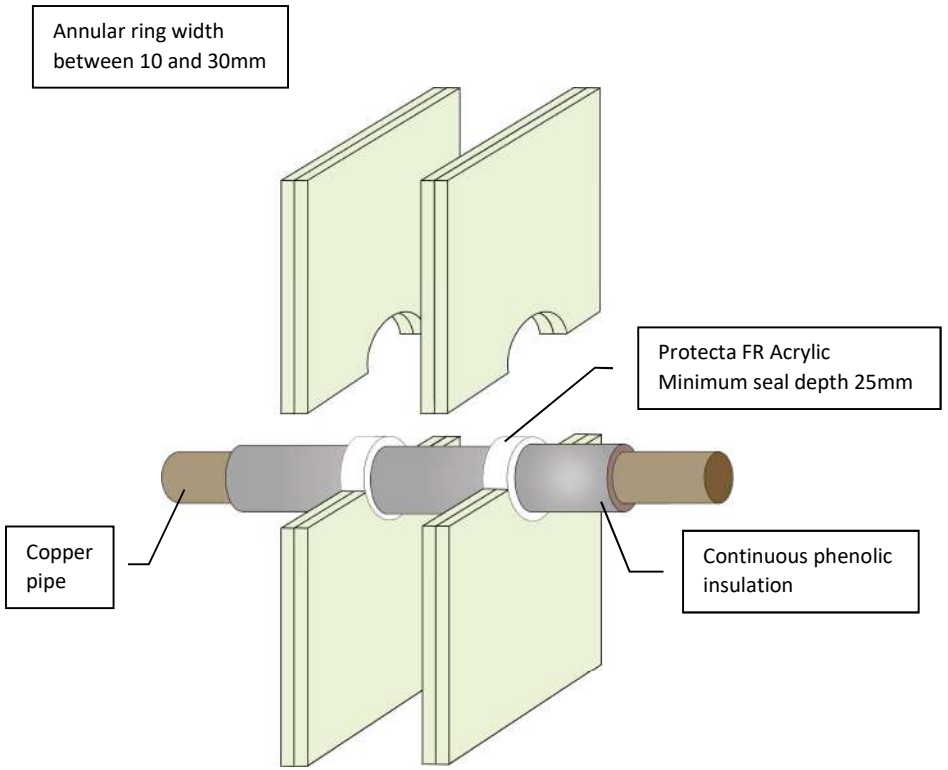
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Sheet size: **A4**	Drawn date & no: 22/8/21
Scale: **NTS**	Drawn by: K.B

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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø54mm with 15mm thick pipe insulation	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm with 16 – 30mm thick pipe insulation	EI 60 C/C & E 90
Copper pipe ≤ Ø159mm with 15 – 100mm thick pipe insulation	EI 30 C/C & E 45
Sound reduction (seal only)	Rw 62dB

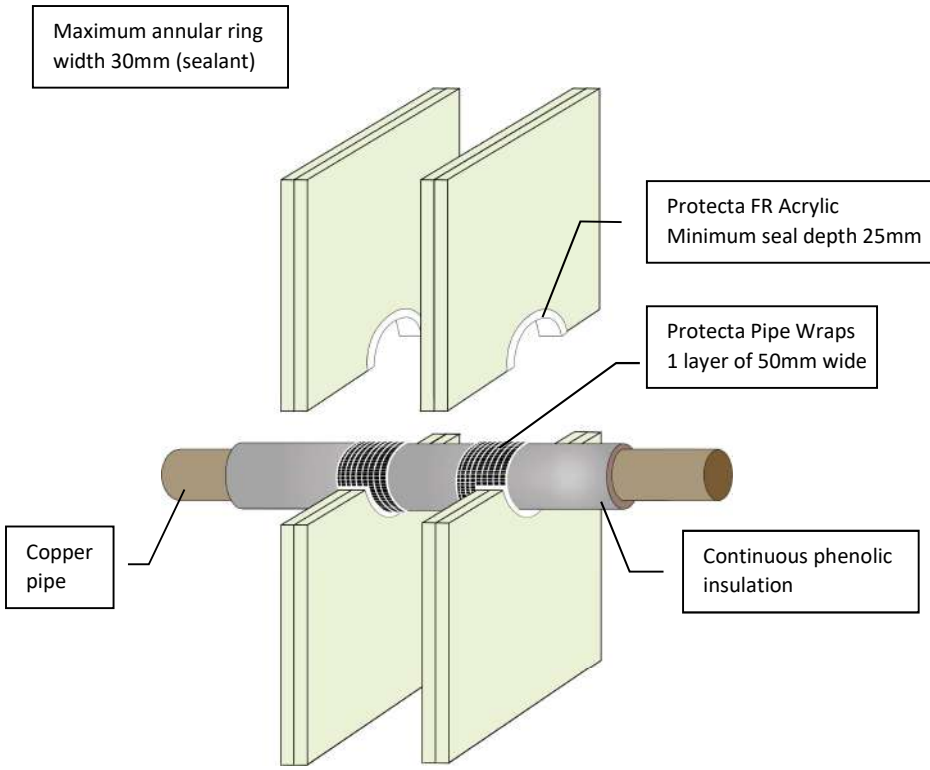
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Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Copper pipe ≤ Ø159mm with 100mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

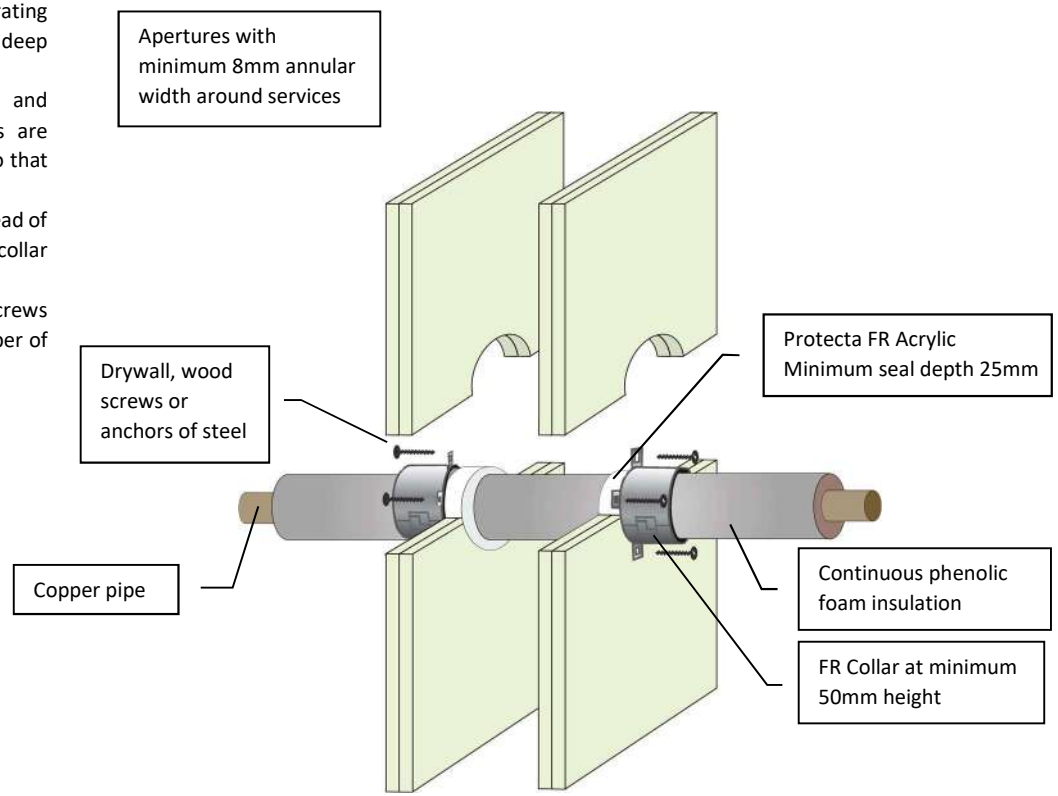
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 14/4/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of copper pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

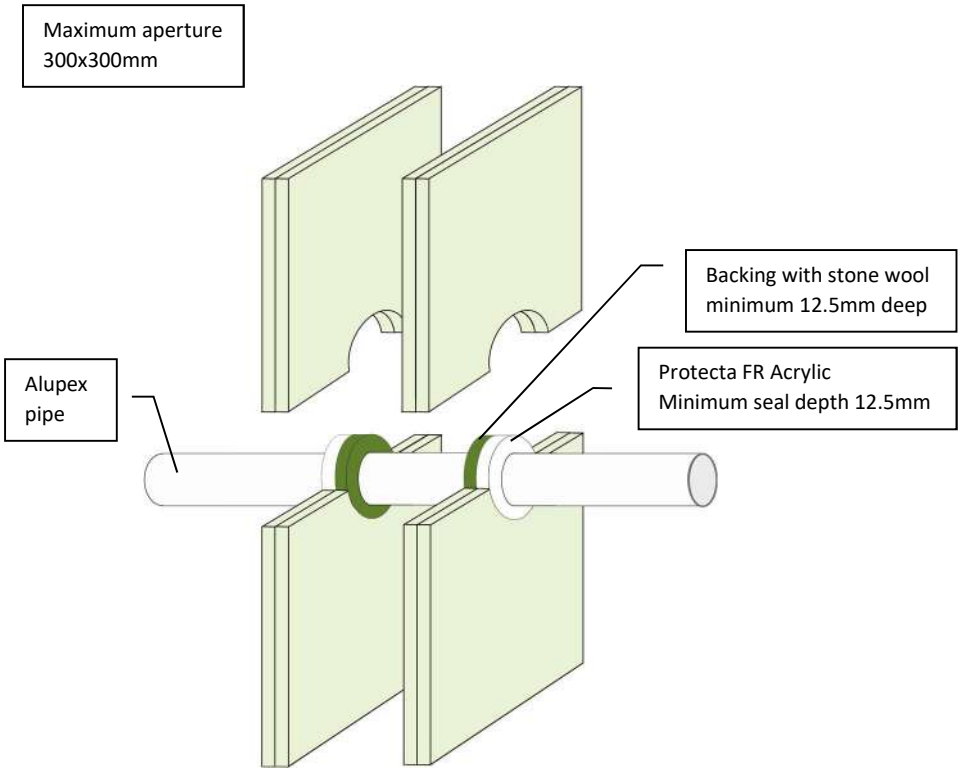
Copper pipe ≤ Ø12mm with 15mm thick pipe insulation	EI 120 C/C & E 120
Copper pipe ≤ Ø108mm with 25mm thick pipe insulation	EI 90 C/C & E 120
Copper pipe ≤ Ø108mm with 26 – 100mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 25mm thick pipe insulation	EI 60 C/C & E 60
Copper pipe ≤ Ø159mm with 26 – 100mm thick pipe insulation	EI 45 C/C & E 45
Sound reduction (seal only)	Rw 58 dB

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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 12/5/24
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø20mm without pipe insulation

EI 120 C/C & E 120

Sound reduction (seal only)

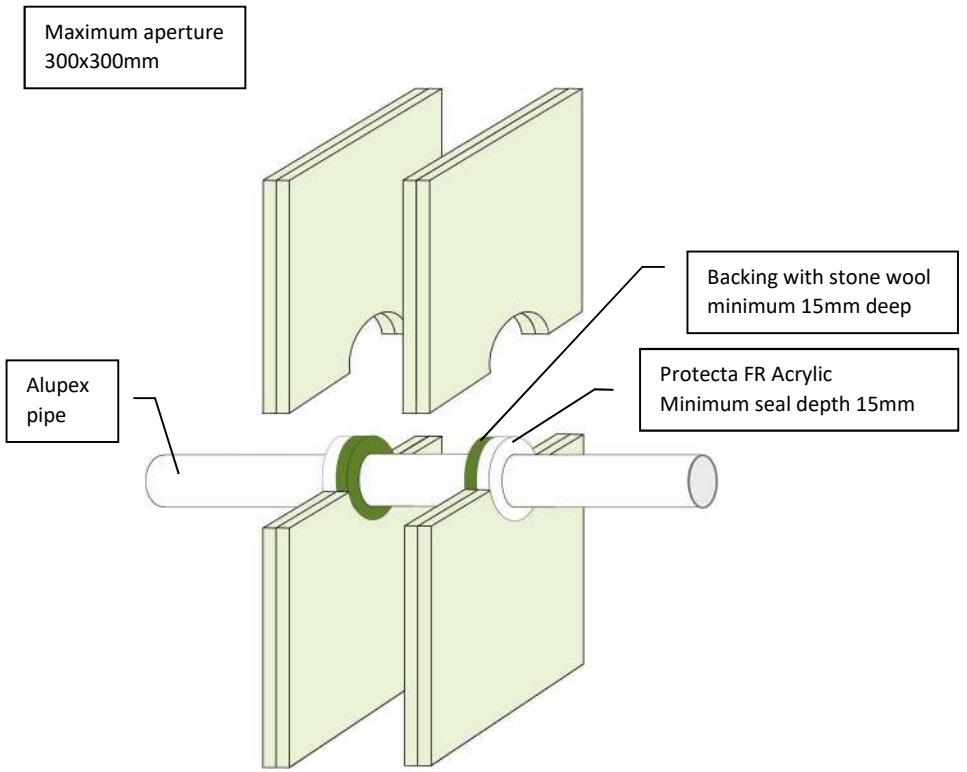
Rw 62dB

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Sheet size: **A4**	Drawn date & no: 8/4/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø75mm without pipe insulation

EI 30 C/C & E 120

Sound reduction (seal only)

Rw 62dB

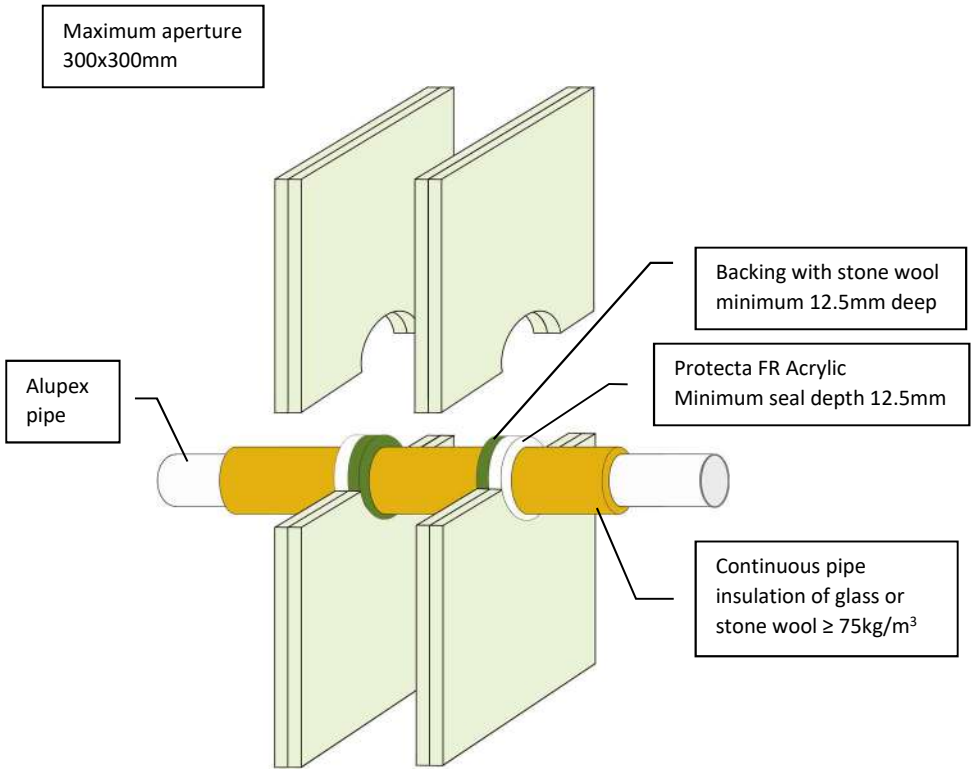
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Sheet size: **A4**	Drawn date & no: 14/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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3. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 20-50mm thick pipe insulation EI 120 C/C & E 120

Alupex pipe ≤ Ø75mm with 60mm thick pipe insulation EI 60 C/C & E 60

Sound reduction (seal only) Rw 62dB

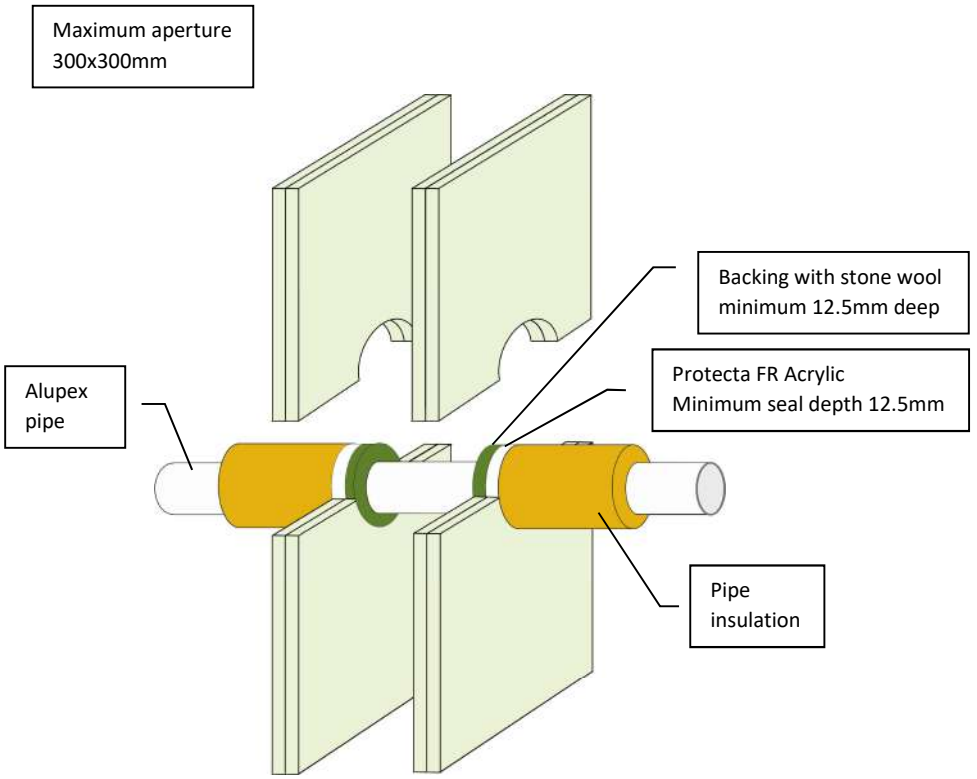
Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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. 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.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
6. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
7. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø75mm with ≥ 20mm thick pipe insulation of glass or stone wool ≥ 75kg/m^3
≥ 50cm on both sides

EI 120 C/C & E 120

Sound reduction (seal only)

Rw 62dB

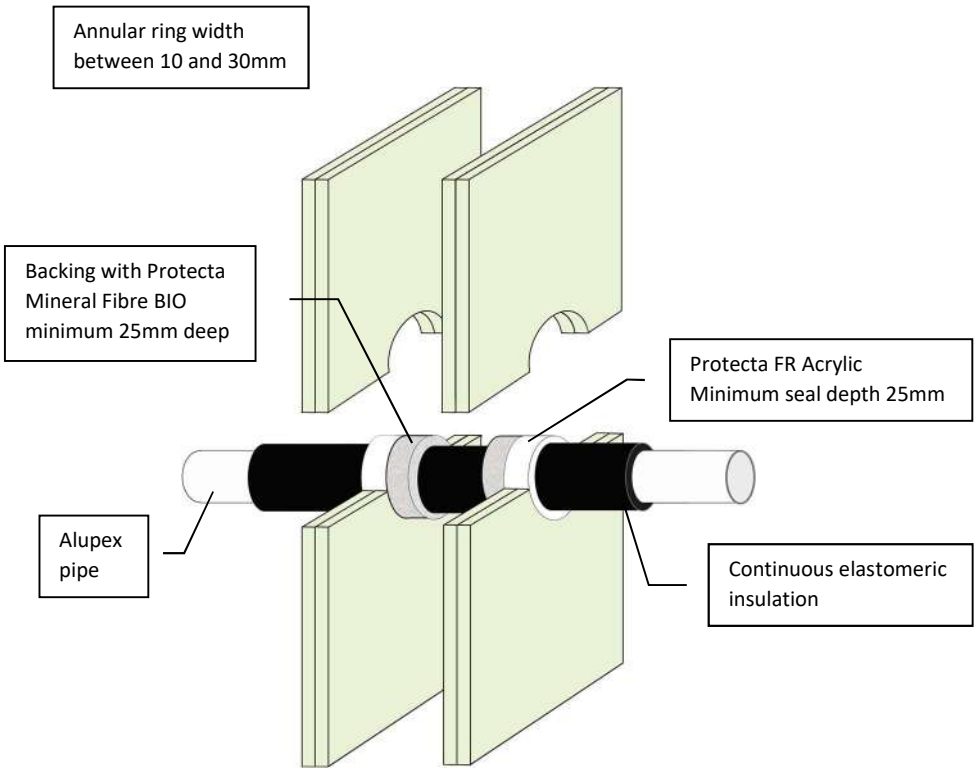
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Huddersfield, West Yorkshire, HD1 6SB
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/4/24
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

Alupex pipe ≤ Ø16mm with 9mm thick pipe insulation	EI 120 C/C & E 120
Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB

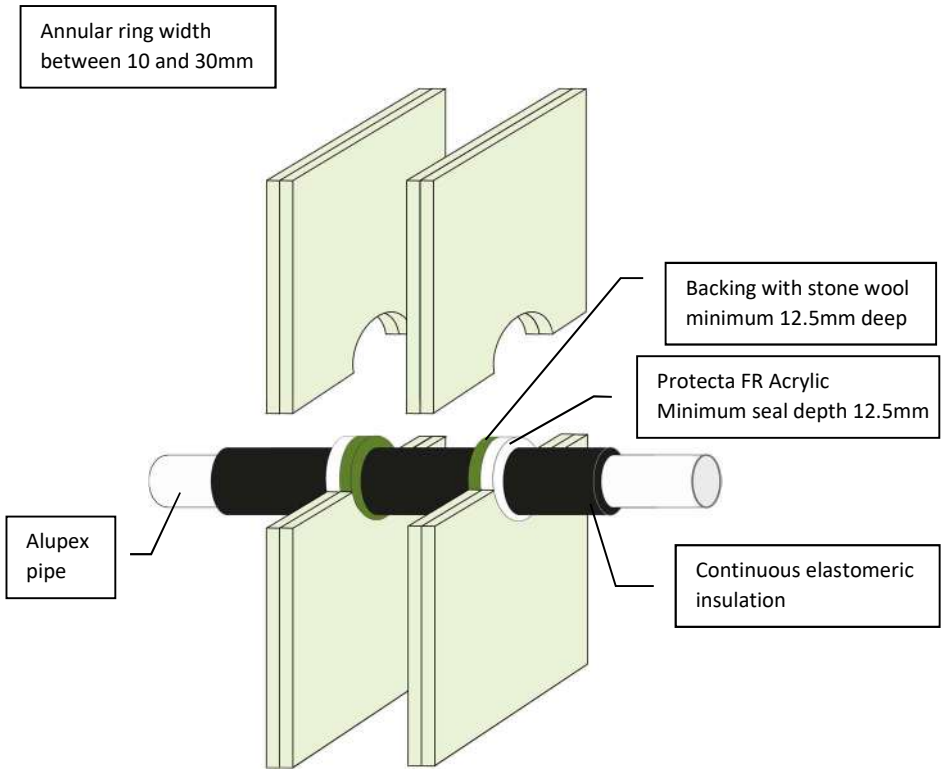
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 23/4/15
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

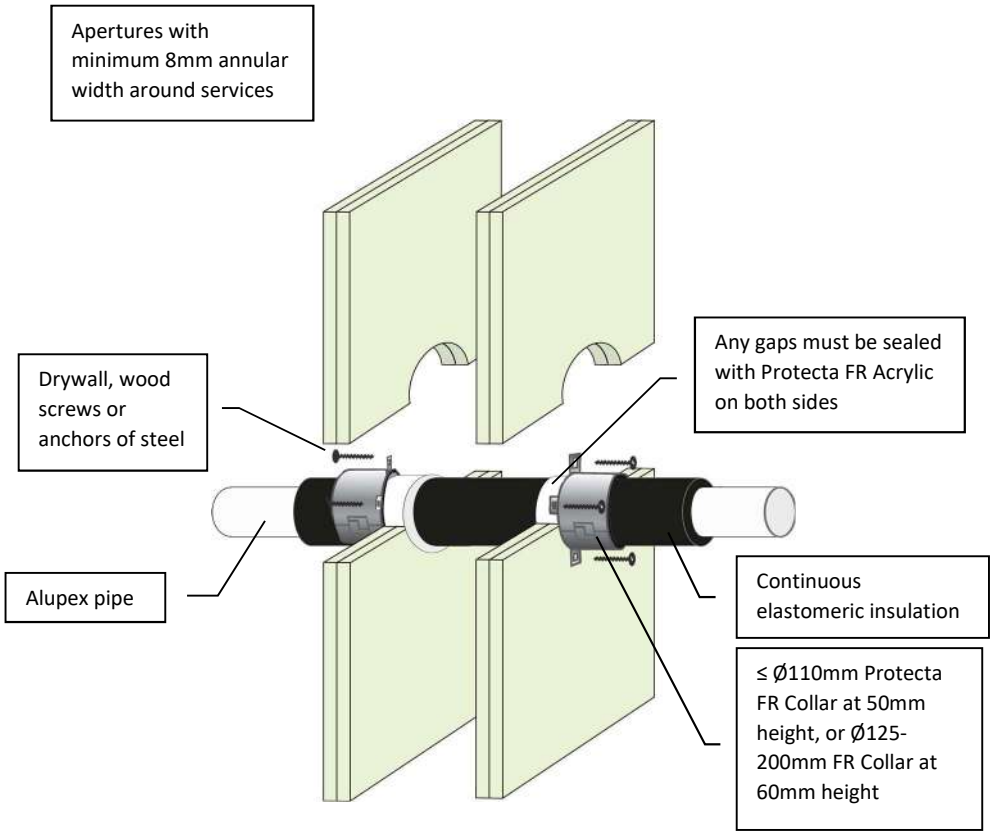
Alupex pipe ≤ Ø16mm with 9mm thick pipe insulation	EI 90 C/C & E 120
Alupex pipe ≤ Ø75mm with 9mm thick pipe insulation	EI 45 C/C & E 60
Alupex pipe ≤ Ø75mm with 13 – 24mm thick pipe insulation	EI 60 C/C & E 90
Alupex pipe ≤ Ø75mm with 25mm thick pipe insulation	EI 90 C/C & E 90
Sound reduction (seal only)	Rw 62dB

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 18/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of alupex pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

Alupex pipe ≤ Ø75mm with 9 – 50mm thick pipe insulation

EI 60 C/C & E 90

Sound reduction (seal only)

Rw 62 dB

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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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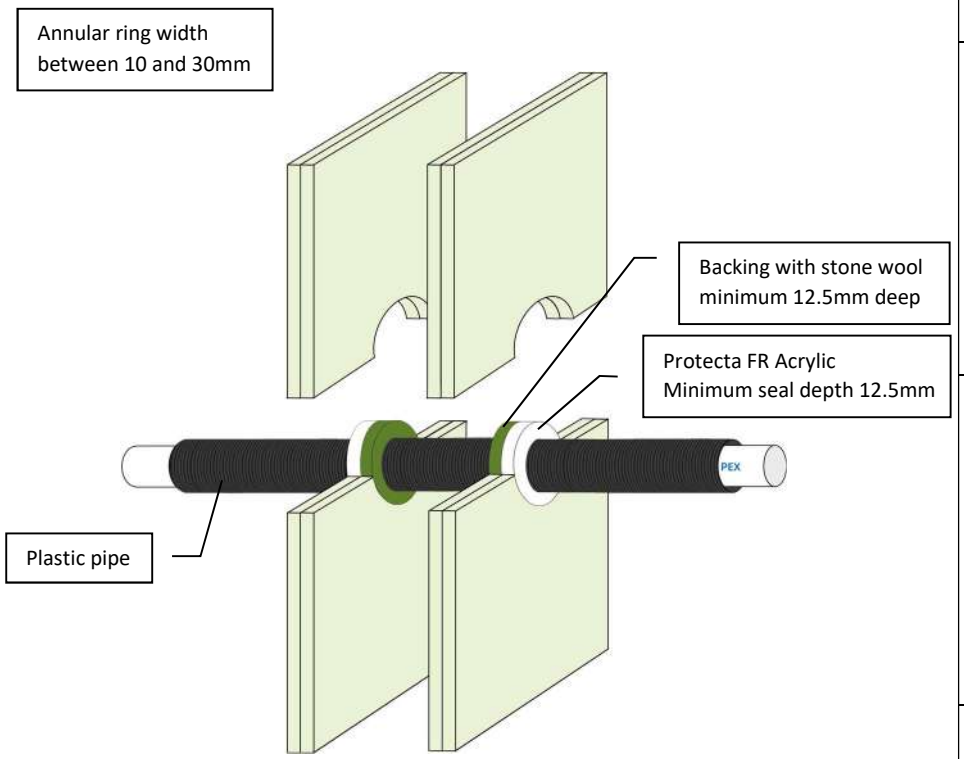
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: **A4**	Drawn date & no: 22/8/21
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø25mm
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

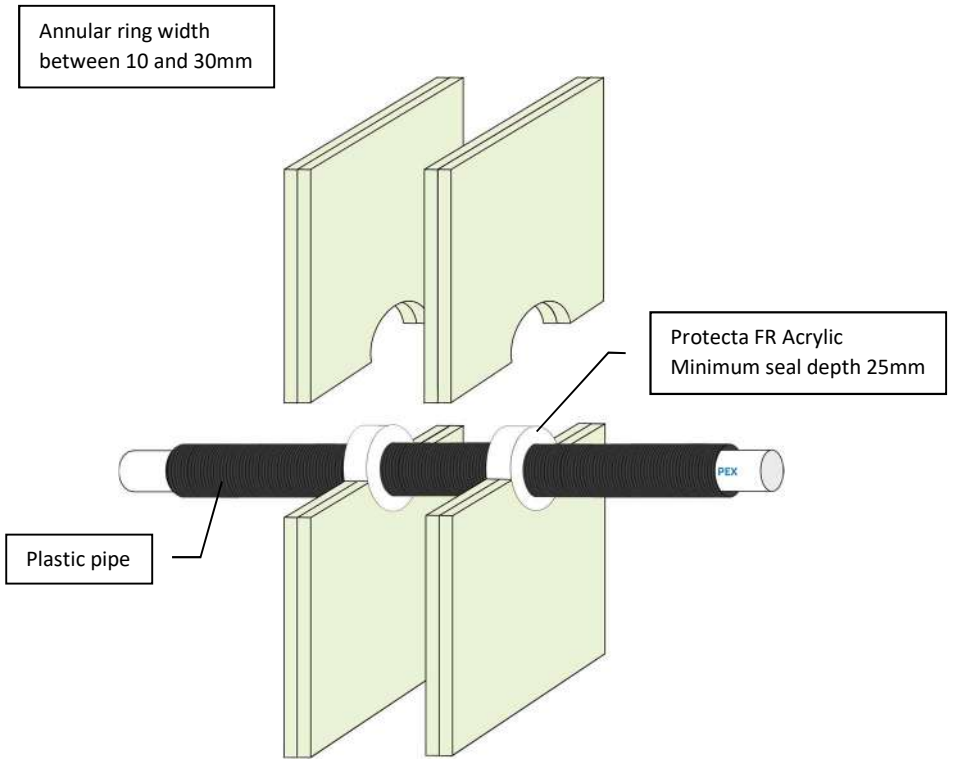
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 23/4/15
Scale: **NTS**	Drawn by: K.B

Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø54mm
EI 45 C/C & E 60

Sound reduction (seal only)
Rw 62dB

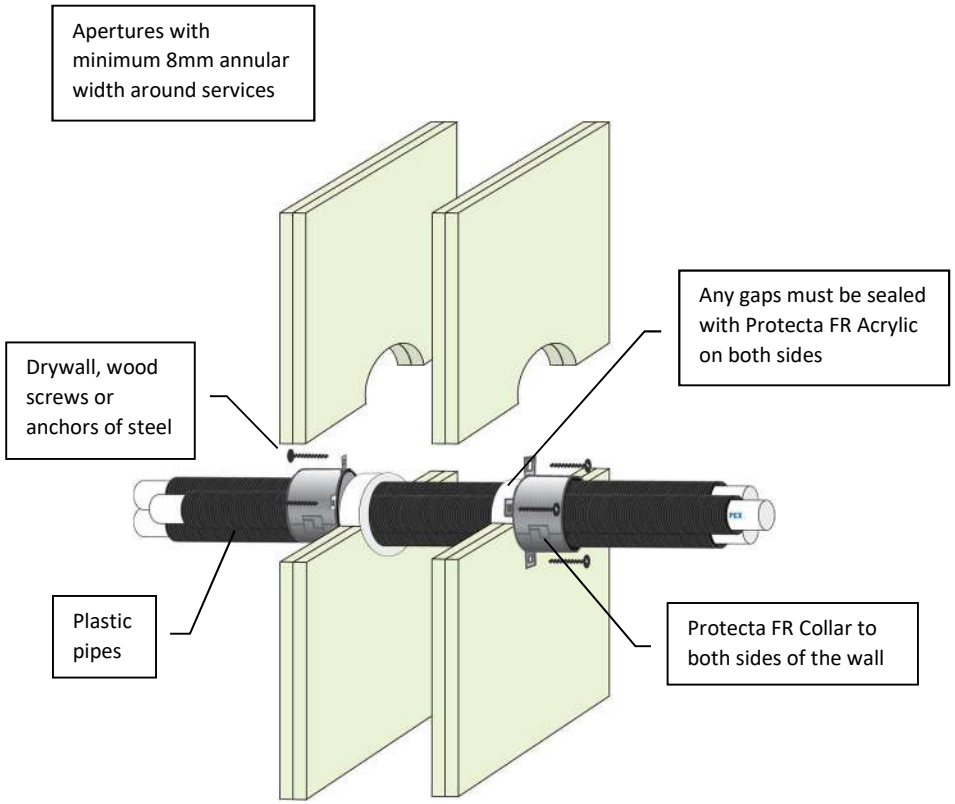
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Tel: +44 (0) 148 4421036
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Sheet size: **A4**	Drawn date & no: 14/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipes and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PEX pipes ≤ Ø 25mm, single or in a bundle ≤ Ø55mm, with collars at ≥ 30mm height
EI 90 C/C & E 120

PEX pipes ≤ Ø 42mm, single or in a bundle ≤ Ø160mm, with collars at ≥ 50mm height
EI 60 C/C & E 60

Sound reduction (seal only) Rw 62 dB

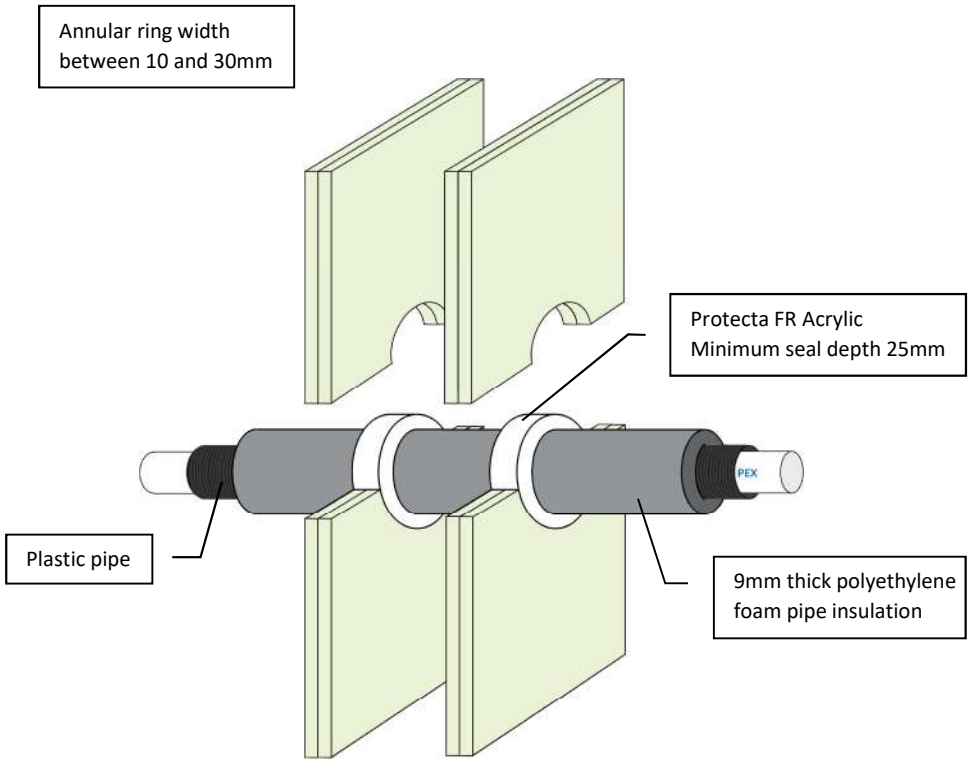
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/5/24
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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of PEX plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Fire & Sound classification

PEX pipe-in-pipe ≤ Ø34mm
EI 45 C/C & E 45

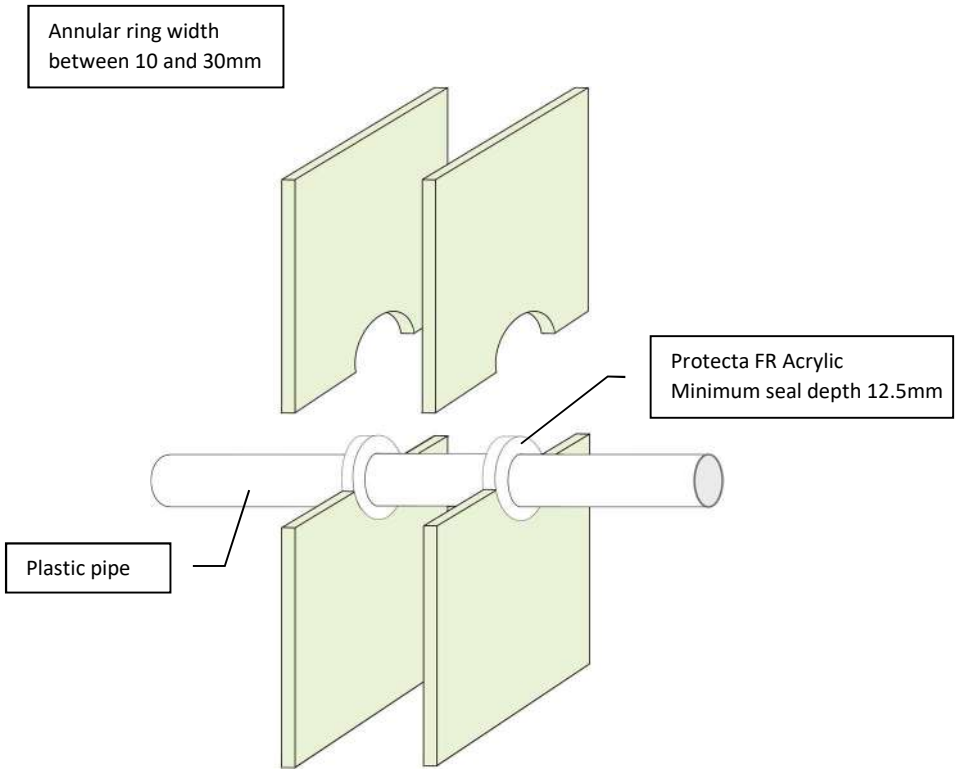
Sound reduction (seal only)
Rw 62dB

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Sheet size: **A4**	Drawn date & no: 14/4/24
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Installation Instructions

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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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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Signed and approved:

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of plastic pipes in flexible walls
Construction	Minimum wall 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

Fire & Sound classification

PE, ABS or SAN+PVC pipe ≤ Ø32mm with wall thickness 2.0 – 3.0mm
EI 30 U/C & E 30

PP pipe ≤ Ø32mm with wall thickness 2.3 – 4.4mm
EI 30 U/C & E 30

Sound reduction (seal only)
Rw 62dB

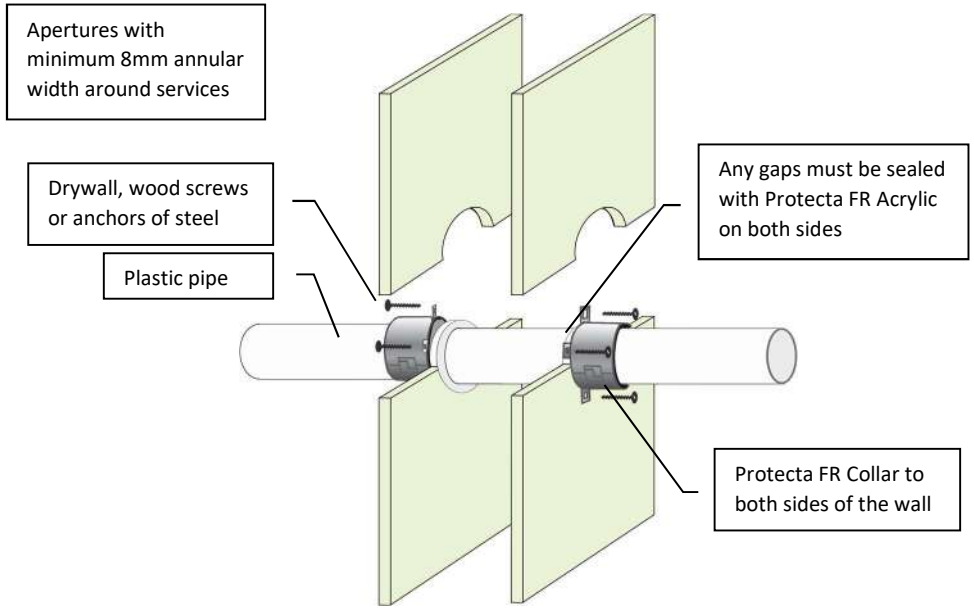
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Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 14/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe and the separating element are sealed with minimum 12.5mm 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 30 C/C, EI 30 U/C, EI 30 C/U, EI 30 U/U (E 60)
≤ Ø90mm PVC-U & PVC-C	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø90mm PE, ABS & SAN+PVC	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 60)
≤ Ø160mm PE, ABS & SAN+PVC	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø50mm PP	30mm	EI 30 C/C, EI 30 U/C, EI 30 C/U, EI 30 U/U (E 60)
≤ Ø90mm PP	30mm	EI 30 C/C, EI 30 U/C (E 60)
≤ Ø110mm PP	30mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø140mm PP	60mm	EI 45 C/C, EI 45 U/C (E 60)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C (E 60)

ETA 22/0752

UKTA 22/0026

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes in flexible walls
Construction	Minimum wall 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

Fire & Sound classification

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

Sound reduction (seal only)

Rw 62dB

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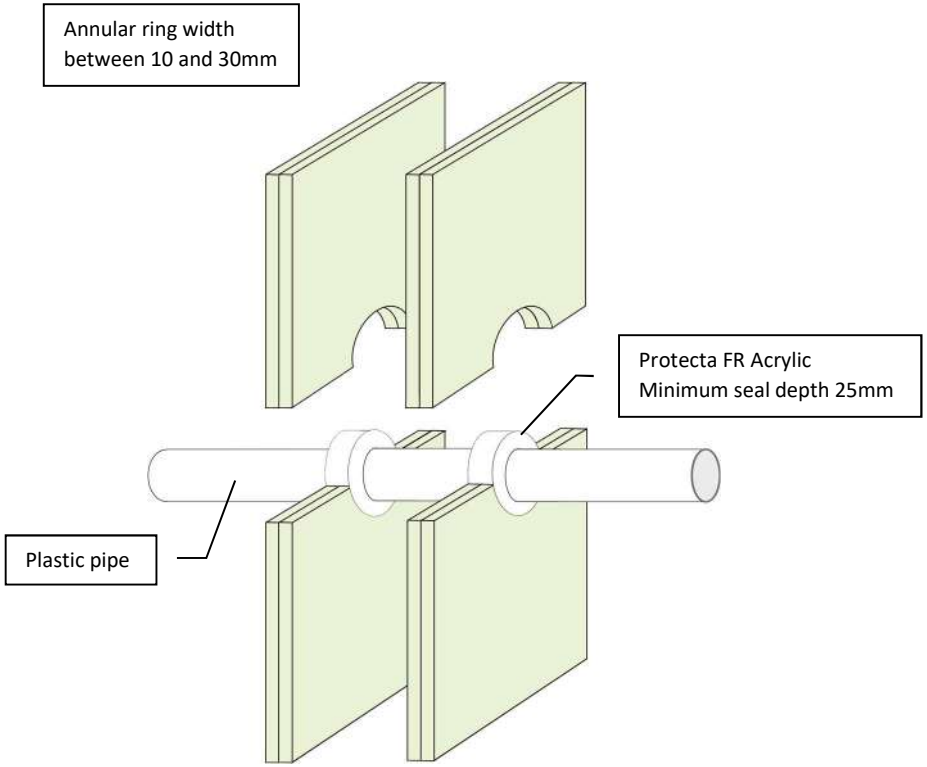
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size:	Drawn date & no:
A4	25/8/21
Scale:	Drawn by:
NTS	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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC pipe ≤ Ø32mm with wall thickness 1.0-1.6mm — EI 120 C/C & E 120

PVC pipe ≤ Ø32mm with wall thickness 1.0-2.4mm — EI 90 U/C & E 120

PE, ABS or SAN+PVC pipe Ø20mm with wall thickness 2.0mm — EI 120 U/C & E 120

PE, ABS or SAN+PVC pipe ≤ Ø32mm with wall thickness 2.0-3.0mm — EI 90 C/C & E 90

PP pipe Ø20mm with wall thickness 2.2mm — EI 120 U/C & E 120

PP pipe ≤ Ø32mm with wall thickness 1.8-4.4mm — EI 60 C/C & E 60

Sound reduction (seal only) — Rw 62dB

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
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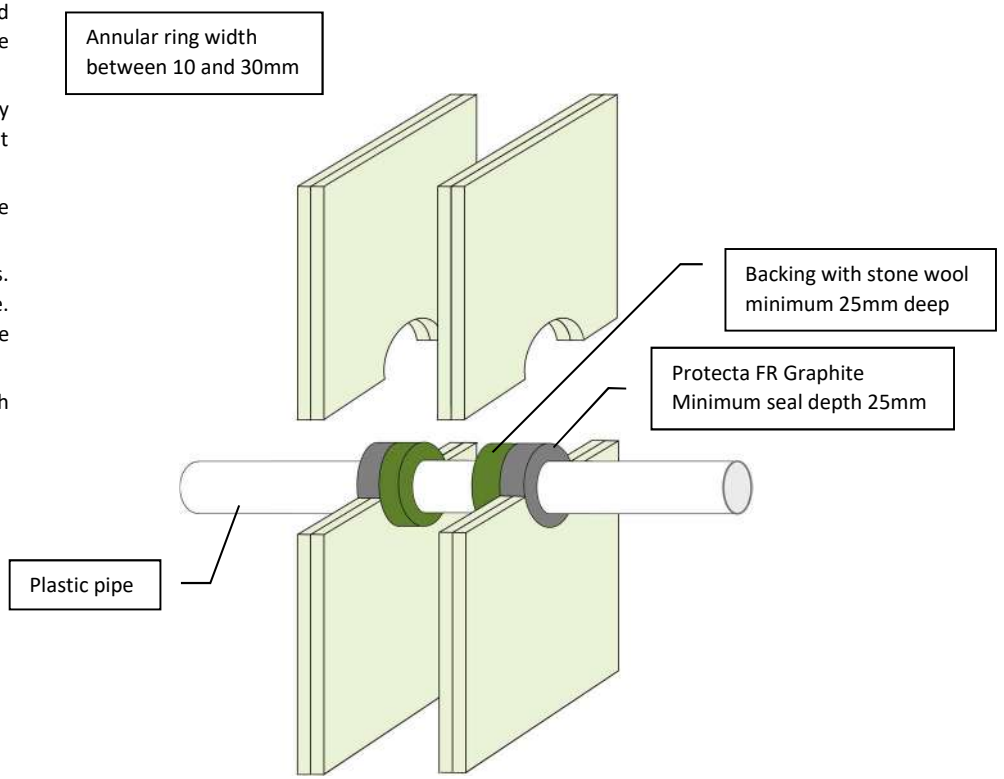
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Sheet size:	Drawn date & no:
A4	14/8/19
NTS	KB

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite Stone wool
Application	Fire stopping of plastic pipes in insulated flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC pipe ≤ 110 mm diameter with wall thickness 1.9 – 6.6mm — EI 120 U/C & E 120

PE, ABS or SAN+PVC pipe ≤ 40 mm diameter with wall thickness 2.4 – 3.7mm — EI 120 U/C & E 120

PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 2.4 – 4.2mm — EI 60 U/C & E 60

PE, ABS or SAN+PVC pipe ≤ 110 mm diameter with wall thickness 4.3 – 10.0mm — EI 90 U/C & E 120

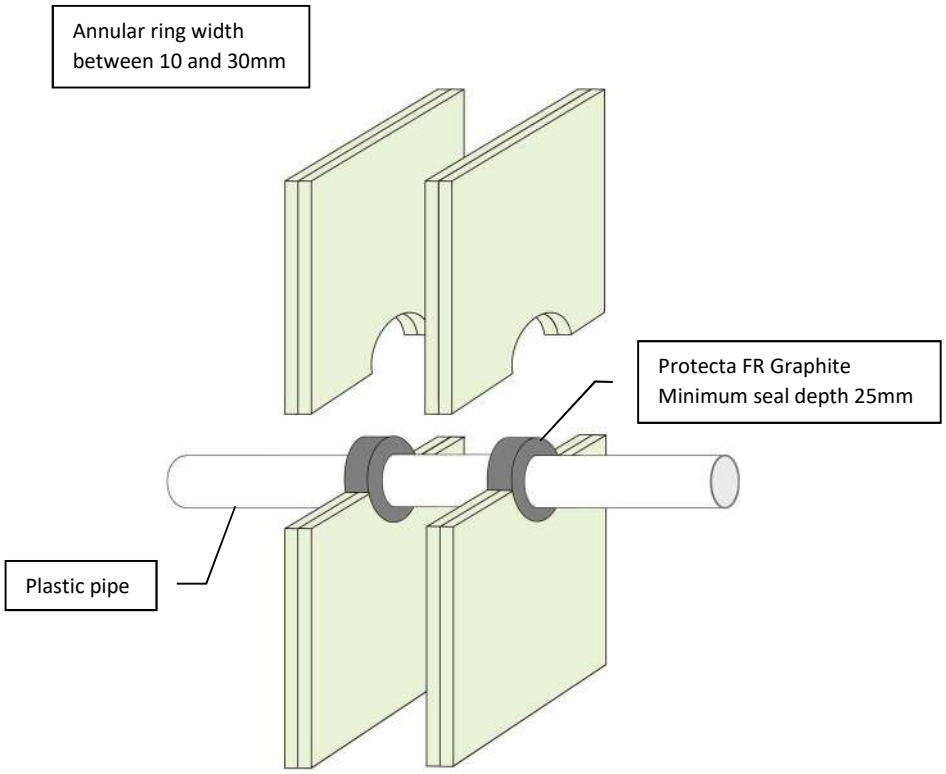
Sound reduction (seal only) — Rw 53dB

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Tel: +44 (0) 148 4421036
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Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite
Application	Fire stopping of plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC pipe ≤ 160 mm diameter with wall thickness 3.2 – 9.5mm — EI 30 U/C & E 30

PVC pipe ≤ 160 mm diameter with wall thickness 9.5mm — EI 90 U/C & E 90

PP pipe ≤ 110 mm diameter with wall thickness 1.8 – 6.3mm — EI 60 U/C & E 60

Sound reduction (seal only) Rw 53dB

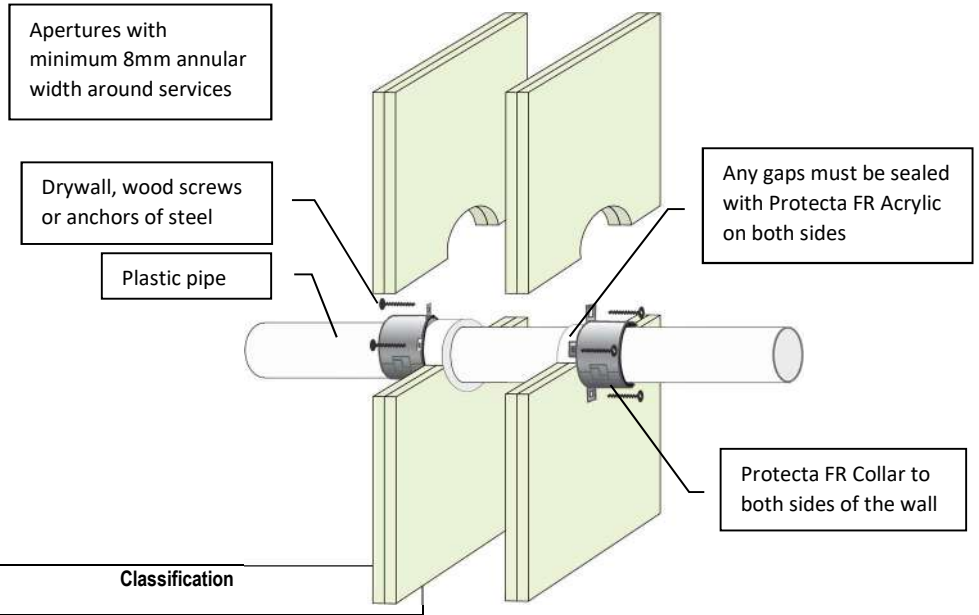
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Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø50mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
≤ Ø140mm PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
≤ Ø315mm PVC-U & PVC-C	75mm	EI 90 C/C
≤ Ø400mm PVC-U & PVC-C	100mm	EI 90 C/C (E 120)
≤ Ø50mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø50mm PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
≤ Ø110mm PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø140mm PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
Ø160mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
≤ Ø200mm PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C (E 120)
Ø400x36.3mm PE, ABS & SAN+PVC	100mm	EI 90 C/C
≤ Ø50mm PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø110mm PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
≤ Ø110mm PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
≤ Ø160mm PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
≤ Ø200mm PP	60mm	EI 90 C/C, EI 90 U/C (E 120)
Ø400x22.7mm PP	100mm	EI 60 C/C

UKTA 22/0026

ETA 22/0752

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of plastic pipes in flexible walls

Construction Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

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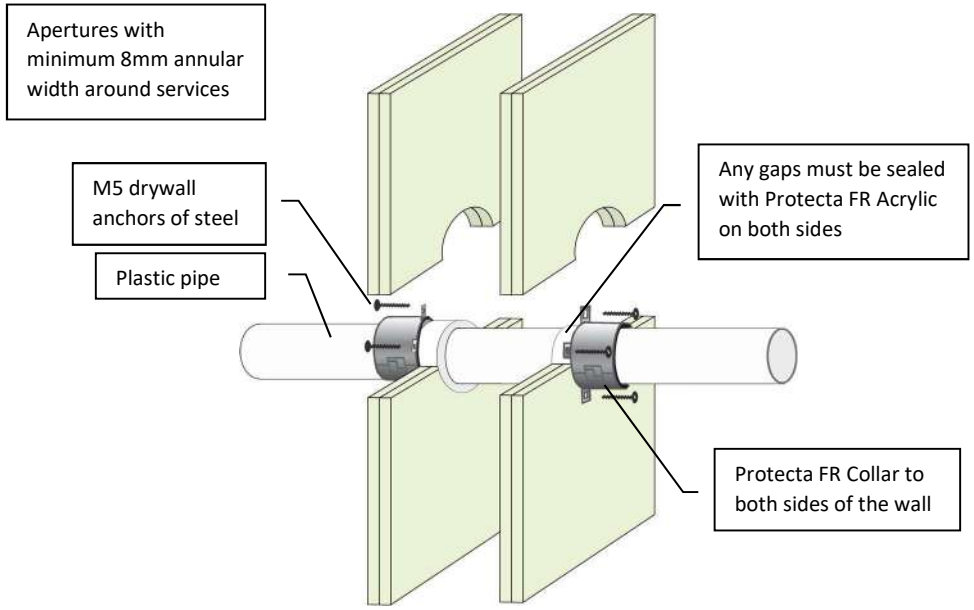
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	24/8/21
Scale:	Drawn by:
NTS	K.B

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 M5 drywall anchors with a length suitable for the number of boards that form the wall.



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
≤ Ø200mm PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/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 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

ETA 22/0752

UKTA 22/0031

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes in 2 hour fire rated flexible walls
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)

Rw 62dB

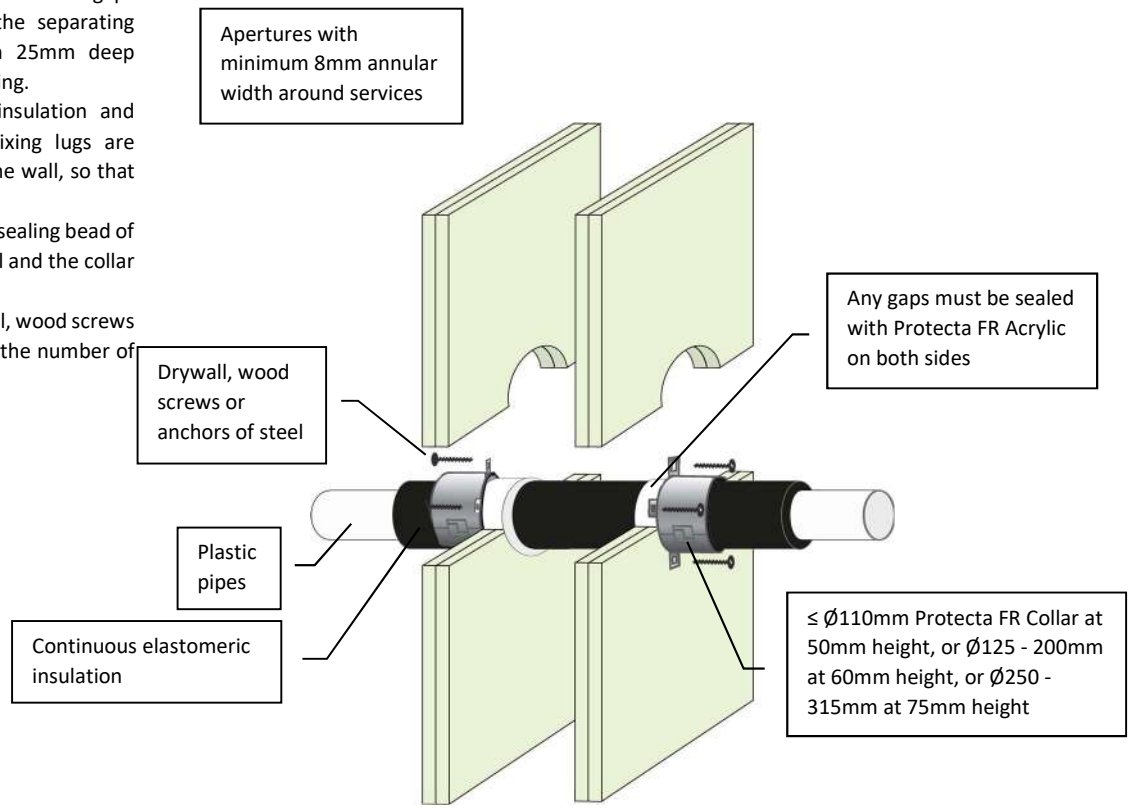
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Scale:	Drawn by:
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Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipe insulation and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the insulation 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of insulated plastic pipes in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PE pipe ≤ Ø160mm with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe Ø160mm with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe ≤ Ø160mm with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe Ø160mm with wall thickness 4.9 – 14.6mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

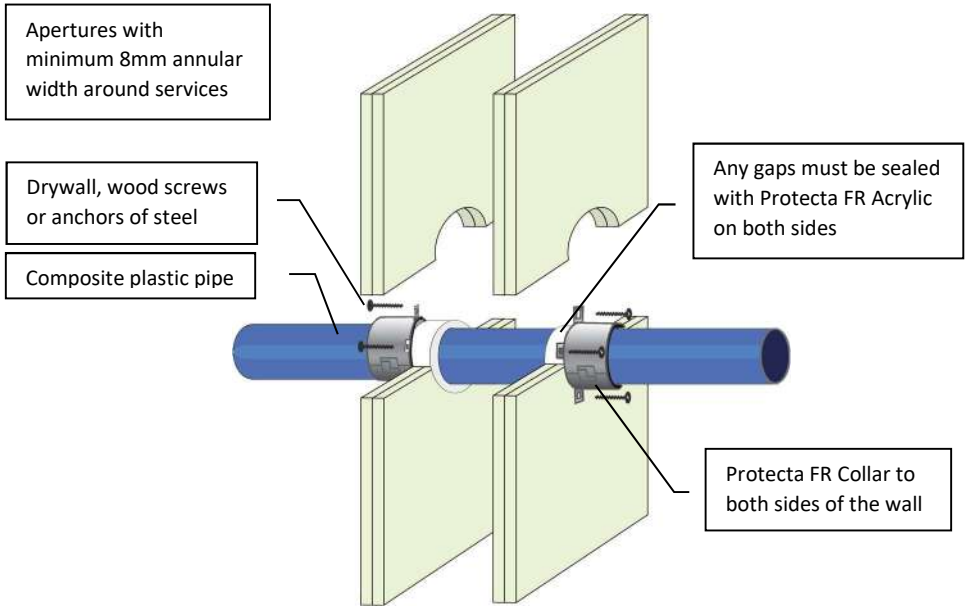
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Email: post.uk@polyseam.com

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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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



Services	Minimum Collar Height	Classification
≤ Ø32mm Aquatherm Green SDR9	30mm	EI 120 C/C (E 120)
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 120 C/C (E 120)
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 60 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 90 U/U (E 120)
≤ Ø110mm BluePower	50mm	EI 60 C/U (E 120)
Ø125mm BluePower	60mm	EI 60 C/U (E 60)
Ø160mm BluePower	60mm	EI 90 C/U (E 90)
≤ Ø50mm Geberit Silent-PP	50mm	EI 120 U/U (E 120)
≤ Ø110mm Geberit Silent-PP	50mm	EI 60 U/U (E 120)
≤ Ø160mm Geberit Silent-PP	60mm	EI 90 U/C (E 90)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 120 U/U (E 120)
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 90 U/U (E 120)
Ø125mm Polo-Kal NG pipes	60mm	EI 120 U/C (E 120 U/U)

Services	Minimum Collar Height	Classification
Ø160mm Polo-Kal NG pipes	60mm	EI 120 U/U (E 120)
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 90 U/U (E 120)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 60 U/U (E 120)
≤ Ø160mm Rehau Raupiano Plus	60mm	EI 120 U/U (E 120)
≤ Ø110mm Uponor Decibel pipes	50mm	EI 60 U/U (E 120)
≤ Ø50mm Wavin AS+	50mm	EI 90 U/U (E 120)
≤ Ø110mm Wavin AS+	50mm	EI 60 U/C (E 120)
≤ Ø160mm Wavin AS+	60mm	EI 60 U/C (E 120)
≤ Ø200mm Wavin AS+	60mm	EI 90 U/C (E 120)
≤ Ø50mm Wavin SiTech	50mm	EI 120 U/U (E 120)
≤ Ø110mm Wavin SiTech	50mm	EI 60 U/U (E 120)

ETA 22/0752

UKTA 22/0026

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Signed and approved:

Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic

Application Fire stopping of composite plastic pipes in flexible walls

Construction Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

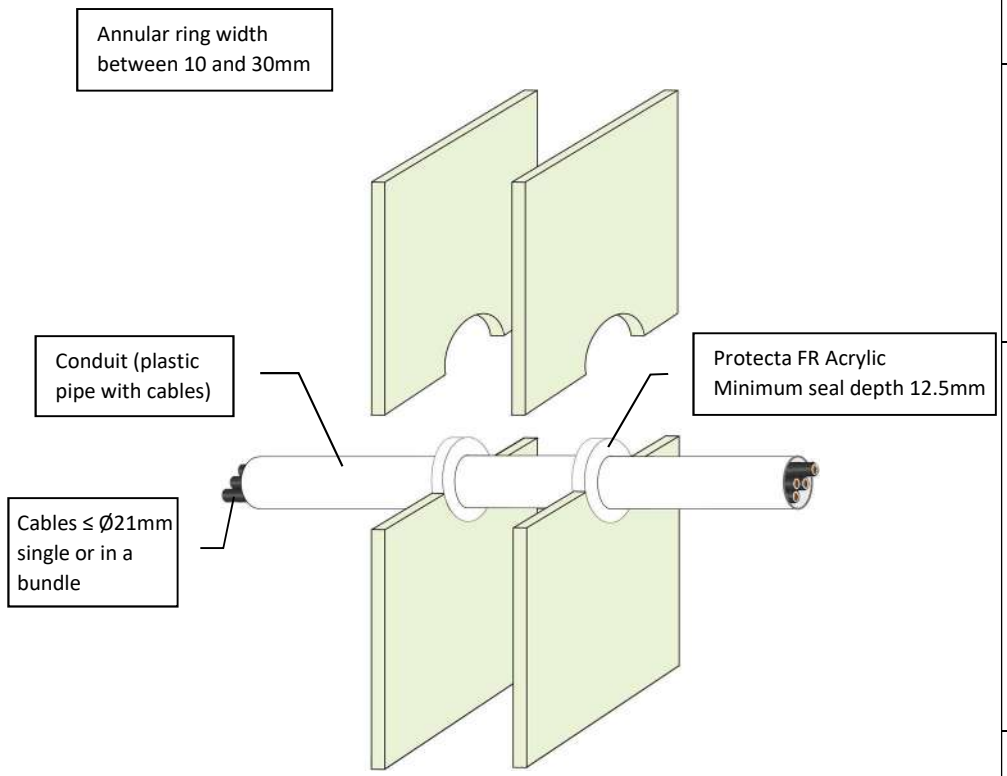
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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Scale:	Drawn by:
NTS	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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of conduits in flexible walls
Construction	Minimum wall 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

Fire & Sound classification

PVC conduit/pipe ≤ Ø32mm with wall thickness 1.0 – 1.8mm — EI 45 U/C & E 60

PE, ABS or SAN+PVC conduit/pipe ≤ Ø32mm with wall thickness 2.0 – 3.0mm — EI 30 U/C & E 45

PP conduit/pipe ≤ Ø32mm with wall thickness 2.3 – 4.4mm — EI 30 U/C & E 45

Sound reduction (seal only) — Rw 62dB

Protecta®

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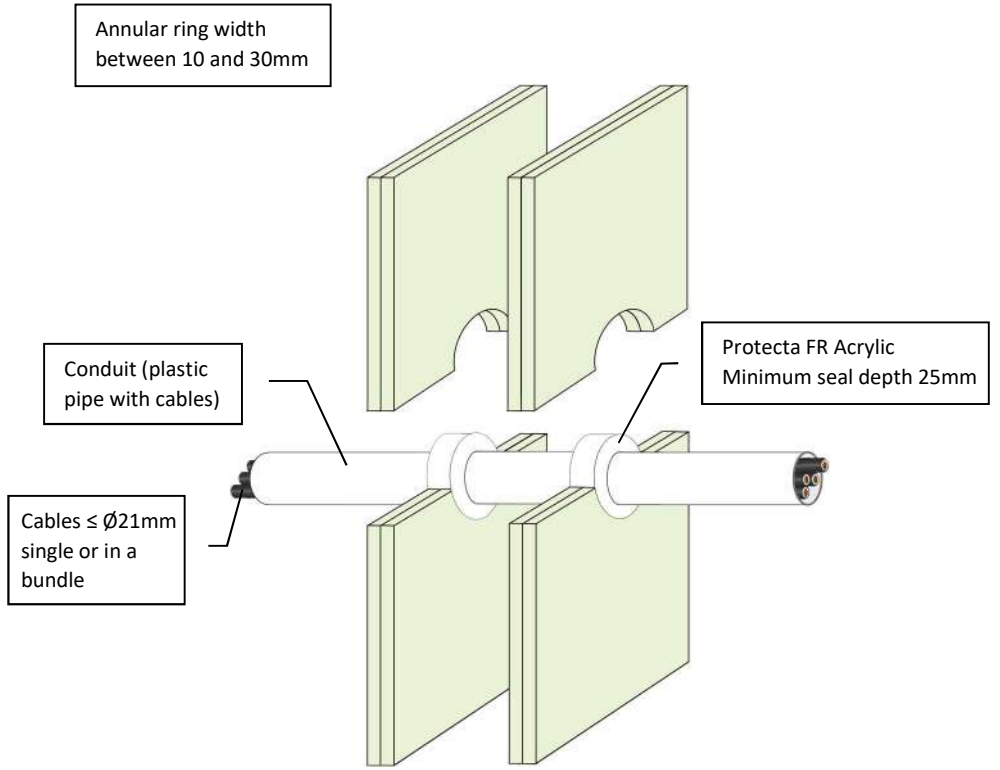
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	8/4/18
Scale:	Drawn by:
NTS	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 the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
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.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0735

UKTA 22/0031

Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire stopping of conduits in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC conduit/pipe ≤ Ø40mm with wall thickness 1.0 – 1.9mm — EI 120 U/C & E 120

PE, ABS or SAN+PVC conduit/pipe ≤ Ø40mm with wall thickness 2.0 – 3.0mm — EI 90 U/C & E 90

PP conduit/pipe ≤ Ø40mm with wall thickness 1.8 – 2.2mm — EI 90 U/C & E 90

Sound reduction (seal only) — Rw 62dB

Protecta®

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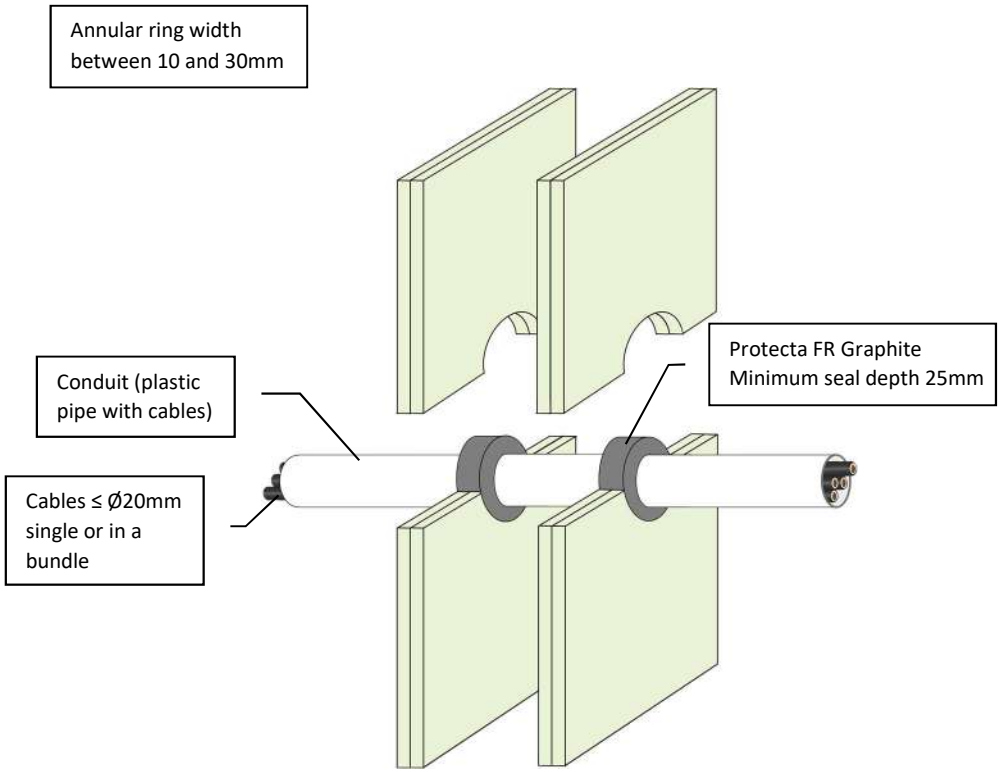
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size: **A4**	Drawn date & no: 14/8/19
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Graphite ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
3. Fill the gap or joint with Protecta® FR Graphite to the required depth.
4. Apply the sealant generously avoiding air bubbles. Finish the bead with a moist spatula or pallet knife. Avoid excessive tooling/smoothing as this may make the seal surface wet and soft.
5. Protecta® FR Graphite can be over-painted with most emulsion or alkyd (gloss) paints.



ETA 22/0749

UKTA 22/0027

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Signed and approved:

Client:

Job Title:

Products	Protecta FR Graphite
Application	Fire stopping of conduits in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PE, ABS or SAN+PVC conduit/pipe ≤ Ø110mm with wall thickness 2.4 - 10.0mm EI 60 U/C & E 60

PP conduit/pipe ≤ Ø110mm with wall thickness 2.7 - 6.6mm EI 90 U/C & E 90

PVC conduit/pipe ≤ Ø110mm with wall thickness 1.9 - 6.6mm EI 90 U/C & E 90

Sound reduction (seal only) Rw 53dB

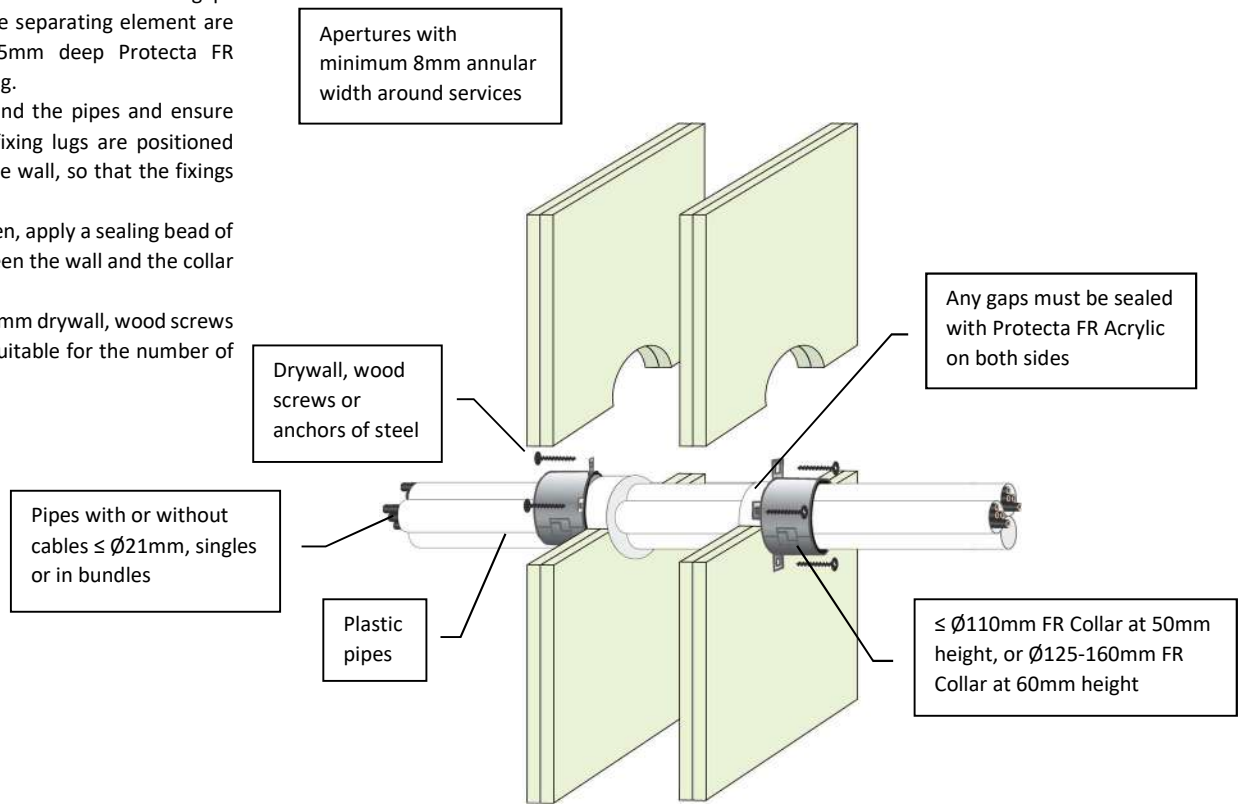
Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 11/11/18
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the pipes and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place suitable collars around the pipes 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic pipes and cables in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes ≤ Ø40mm, single, or in a bundle
≤ Ø160mm with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 62 dB

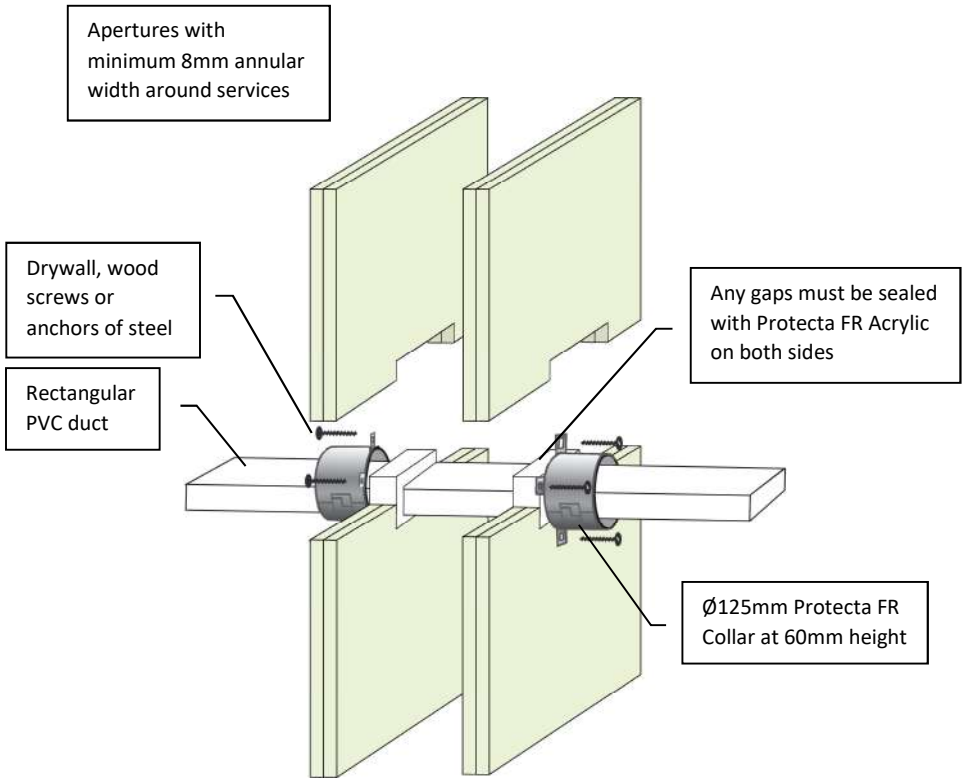
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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 25/8/21
Scale: **NTS**	Drawn by: K.B

Installation Instructions

1. Before fitting the collars ensure that the gaps between the duct and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place the collars around the duct and ensure that the collar shells 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 ≥ Ø4mm drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



ETA 22/0752

UKTA 22/0026

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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

Signed and approved:

Client:

Job Title:

Products	Protecta FR Collar Protecta FR Acrylic
Application	Fire stopping of plastic ducts in flexible walls
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Fire & Sound classification

PVC rectangular duct 54 x 110mm with wall thickness approx. 2mm

EI 60 U/U & E 120

Sound reduction (seal only)

58dB

Protecta®

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4**	Drawn date & no: 13/5/24
Scale: **NTS**	Drawn by: K.B

Appendix III

-

Service penetration solutions in larger apertures

MIXED SERVICE APERTURE

Fire Classification EI 30

Sound Reduction 52 dB

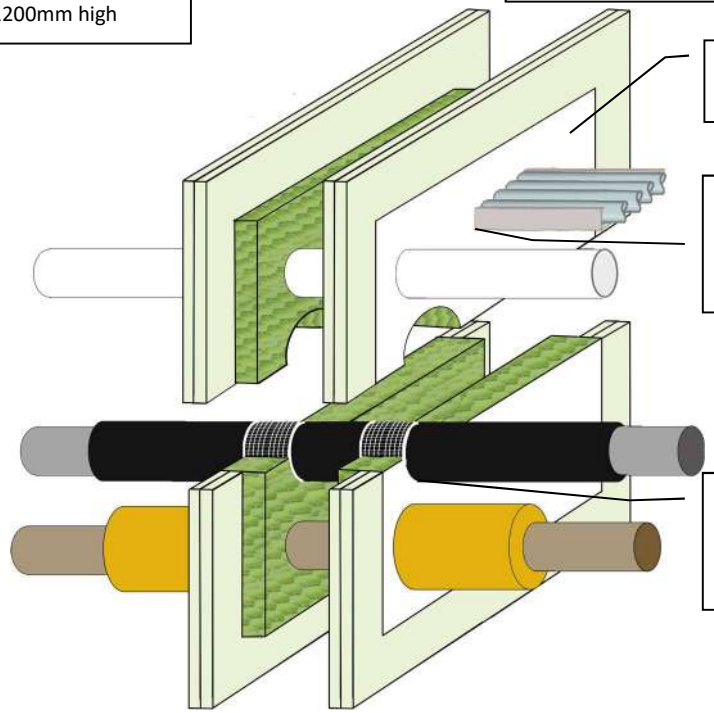
Installation details - Page 1 of 6

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. Protecta® FR Coating, FR Acrylic 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. 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. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.

Maximum aperture unlimited width by 1200mm high

If the wall thickness is less than 100mm, the boards must be back-to-back and positioned centrally within the wall with the board edges coated with FR Coating on both sides



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall 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

Services

1. Cables & conduits, with or without cable trays
2. Bus-bars
3. Steel pipes
4. Gas pipes
5. Copper pipes
6. Alupex pipes
7. Plastic pipes
8. Composite pipes
9. Ventilation ducts

For full specification see pages 2 to 6.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
Unsheathed wires, with or w/o trays	≤ Ø24mm per wire	-	-	-	-
Plastic & metal conduits, with or w/o trays	≤ Ø16mm per conduit	-	-	-	-
Aluminium bus-bars	≤ 592 x 150mm	≤ 5275mm^2	≥ 50mm thick x 500mm long FR Board 1-S	-	-
Steel pipes	≤ Ø63mm per pipe	-	None	C/U	-
	≤ Ø114mm per pipe	-	≥ 1500µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/U	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	9mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø165mm per pipe	-	13 - 32mm thick continuous elastomeric or PE	U/U	2 layers of 50mm wide both sides
	≤ Ø324mm per pipe	-	32 - 50mm thick continuous elastomeric or PE	C/U	3 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	15mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø273mm per pipe	-	25 - 100mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass wool ≥ 75kg/m^3	C/C	-
	≤ Ø273mm per pipe	-	30 - 60mm thick continuous glass wool ≥ 75kg/m^3	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø273mm per pipe	-	≥ 30mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	≤ Ø40mm per pipe	-	-	C/C	-

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Copper pipes	≤ Ø12mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø15mm per pipe	-	15mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø159mm per pipe	-	15 - 100mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	20 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø108mm per pipe	-	≥ 30mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø75mm per pipe	-	25 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 25mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.7-7.4mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
PE, ABS and SAN+PVC pipes	≤ Ø32mm per pipe	2.0-3.0mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.8-12.0mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	18.7mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	23.7mm	-	C/C	16 layers of 50mm wide both sides
PP pipes	≤ Ø32mm per pipe	1.8-2.2mm	-	U/C	None
	≤ Ø32mm per pipe	2.3-4.4mm	-	C/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-15.1mm	-	U/U	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-17.1mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-21.9mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	28.6mm	-	C/C	10 layers of 50mm wide both sides
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide both sides

MIXED SERVICE APERTURE
Fire Classification EI 30
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/U	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Wavin AS+ pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø200mm per pipe	-	-	C/C	6 layers of 50mm wide both sides
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Steel or plastic conduits, with or w/o trays	≤ Ø16mm per conduit	Any	-	C/U	-
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	2.7-15.1mm	-	U/C	2 layers of 50mm wide both sides

MIXED SERVICE APERTURE
Fire Classification EI 30
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø32mm PVC-U & PVC-C	1.5-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø40mm PE and ABS	2.0-3.7mm			
	≤ Ø40mm PP	1.8-2.0mm			
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ Ø1250mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 1200mm high x 1700mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

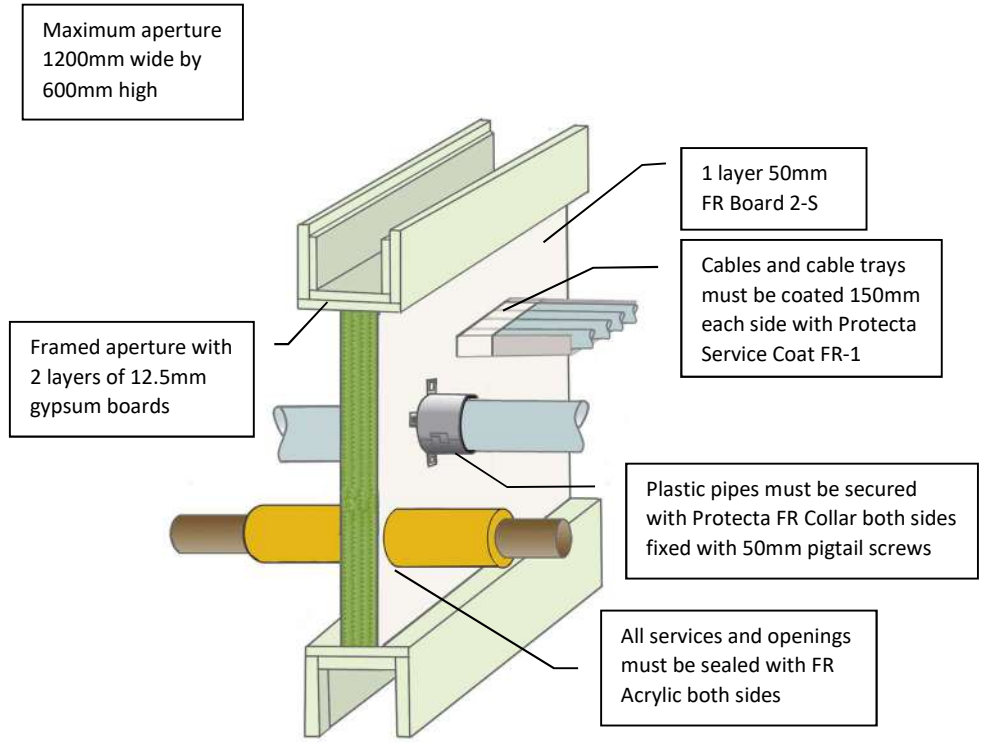
MIXED SERVICE APERTURE

Fire Classification EI 60

Sound Reduction 29 dB

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. Protecta® FR Coating, FR Acrylic 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. The board can be positioned to either side of the construction or anywhere in between.
4. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides of the board(s).
5. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



Products	Protecta FR Board Protecta FR Acrylic Protecta FR Collar Protecta Service Coat FR-1
Construction	Minimum wall thickness of 100 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards.

Services

1. Cables, with or without cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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 100mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation. Services should be supported at maximum 270 mm from both faces of the wall.

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 http://www.protecta.eu

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 29 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Collars or Coat Back
Cables, single or bundled, with or without perforated cable trays and ladders	≤ Ø80mm per cable	-	-	-	300µ WFT Protecta Service Coat FR-1
Steel pipes	≤ Ø54mm per pipe	-	20-50mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø324mm per pipe	-	20-30mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Copper pipes	≤ Ø54mm per pipe	-	20-50mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø75mm per pipe	-	25mm continuous glass or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	20 - 50mm continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø16mm per pipe	-	9mm thick continuous elastomeric or PE foam	C/C	FR Collar 50mm high ≤ Ø40mm
	≤ Ø75mm per pipe	-	13 - 25mm thick continuous elastomeric or PE foam	C/C	FR Collar 50/60mm high ≤ Ø125mm
PVC-U and PVC-C pipes	≤ Ø110mm per pipe	1.9 – 6.6mm	-	U/C	FR Collar 50mm high ≤ Ø110mm
	≤ Ø160mm per pipe	3.1 – 9.5mm	-	C/C	FR Collar 60mm high ≤ Ø160mm
PE, ABS and SAN+PVC pipes	≤ Ø110mm per pipe	3.0 – 10.0mm	-	C/C	FR Collar 50mm high ≤ Ø110mm
	≤ Ø160mm per pipe	3.9 – 9.5mm	-	C/C	FR Collar 60mm high ≤ Ø160mm
PP pipes	≤ Ø90mm per pipe	1.8 – 4.6mm	-	C/C	FR Collar 50mm high ≤ Ø90mm
	≤ Ø160mm per pipe	2.7 – 9.1mm	-	C/C	FR Collar 60mm high ≤ Ø160mm

MIXED SERVICE APERTURE

Fire Classification EI 60

Sound Reduction 52 dB

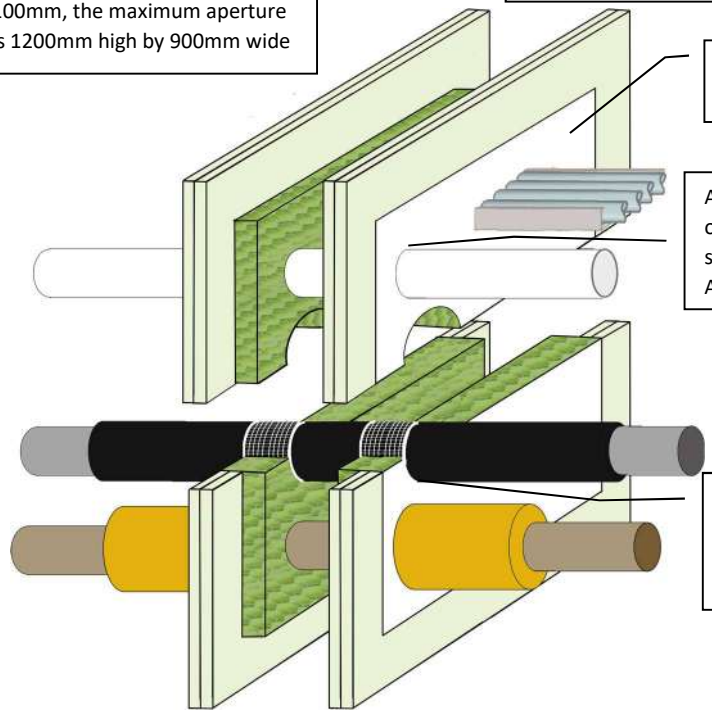
Installation details - Page 1 of 6

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. Protecta® FR Coating, FR Acrylic 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. 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. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.

Maximum aperture unlimited width by 1200mm high. If the wall thickness is less than 100mm, the maximum aperture is 1200mm high by 900mm wide

If the wall thickness is less than 100mm, the boards must be back-to-back and positioned centrally within the wall with the board edges coated with FR Coating on both sides



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 100 mm. Services should be a minimum of 25 mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall 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

Services

1. Cables and conduits, with or w/o cable trays
2. Bus-bars
3. Steel pipes
4. Gas pipes
5. Copper pipes
6. Alupex pipes
7. Plastic pipes
8. Composite pipes
9. Ventilation ducts

For full specification see pages 2 to 6.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

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Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
Plastic and steel conduits, with or w/o trays	≤ Ø16mm per conduit	-	-	C/U	-
Aluminium bus-bars	≤ 592 x 150mm	≤ 5275mm^2	≥ 50mm thick x 500mm long FR Board 1-S	-	-
Steel pipes	≤ Ø22mm per pipe	-	None	C/U	-
	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø63mm per pipe	-	≥ 2300µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/U	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	9mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø165mm per pipe	-	13 - 32mm thick continuous elastomeric or PE	U/U	2 layers of 50mm wide both sides
	≤ Ø324mm per pipe	-	32 - 50mm thick continuous elastomeric or PE	C/U	3 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	15mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø273mm per pipe	-	25 - 100mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass wool ≥ 75kg/m^3	C/C	-
	≤ Ø273mm per pipe	-	30 - 60mm thick continuous glass wool ≥ 75kg/m^3	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø273mm per pipe	-	≥ 30mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	≤ Ø40mm per pipe	-	-	C/C	-

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Copper pipes	≤ Ø6mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø15mm per pipe	-	15mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø159mm per pipe	-	100mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	30 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø75mm per pipe	-	25 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.7-7.4mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
PE, ABS and SAN+PVC pipes	≤ Ø32mm per pipe	2.0-3.0mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.8-12.0mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	18.7mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	23.7mm	-	C/C	16 layers of 50mm wide both sides
PP pipes	≤ Ø32mm per pipe	1.8-2.2mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-15.1mm	-	U/U	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-17.1mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-21.9mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	28.6mm	-	C/C	10 layers of 50mm wide both sides
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/U	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Wavin AS+ pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø200mm per pipe	-	-	C/C	6 layers of 50mm wide both sides
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Steel or plastic conduits, with or w/o trays	≤ Ø16mm per conduit	Any	-	C/U	-
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	2.7-15.1mm	-	U/C	2 layers of 50mm wide both sides
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø32mm PVC-U & PVC-C	1.5-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø40mm PE and ABS	2.0-3.7mm			
	≤ Ø40mm PP	1.8-2.0mm			

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ Ø1250mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 1200mm high x 1700mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

MIXED SERVICES PATTRESS FIXING

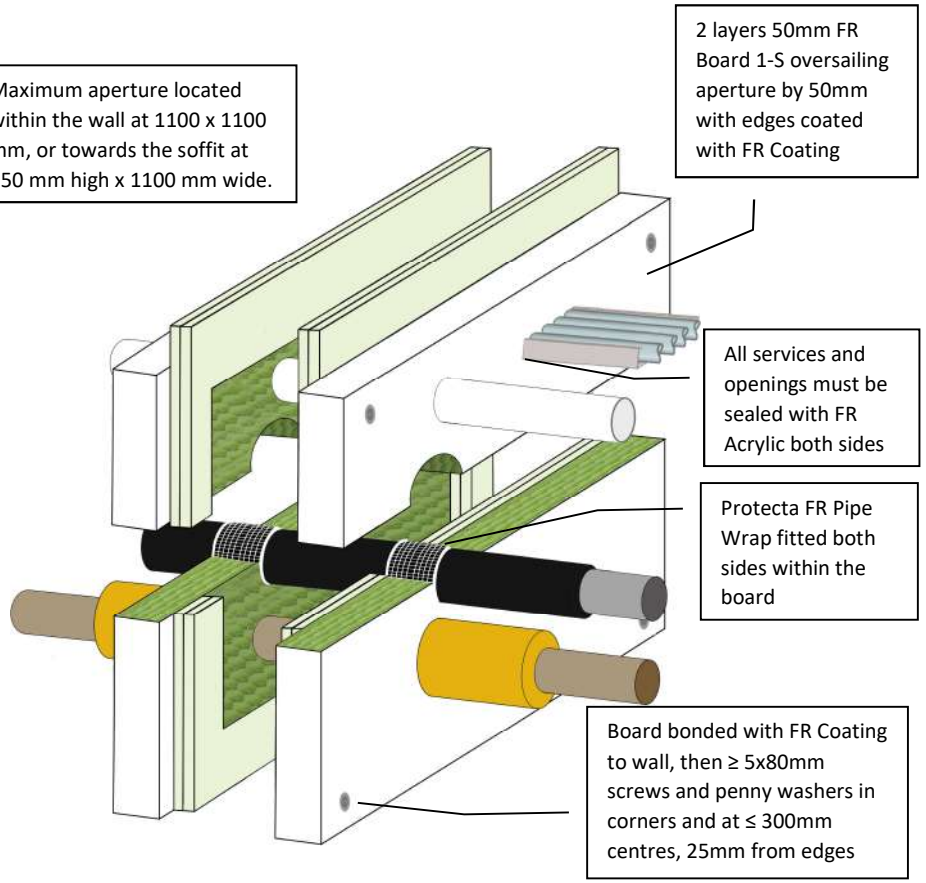
Fire Classification EI 60

Sound Reduction 52 dB

Installation details - Page 1 of 6

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. Protecta® FR Coating, FR Acrylic 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. Cut the required boards to suit accurately the aperture dimensions and type and size of service penetration(s). All board pieces can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). Boards must be oversailing the aperture by 50 mm with edges coated with FR Coating, bonded to the wall surface with FR Coating and screws with penny washers. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on the coated exposed sides of the boards. Visible edges of Protecta® FR Pipe Wraps can be sealed with Protecta® FR Acrylic (optional).
4. If the aperture is towards a soffit so the top side oversailing boards and fixings are unachievable, the boards should be sealed against the soffit and the top side fixings omitted.
5. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



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 100 mm. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the FR Boards.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall 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

Services

1. Cables and conduits, with or w/o cable trays
2. Bus-bars
3. Steel pipes
4. Gas pipes
5. Copper pipes
6. Alupex pipes
7. Plastic pipes
8. Composite pipes
9. Ventilation ducts

For full specification see pages 2 to 6.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 1/11/23

MIXED SERVICES PATTRESS FIXING
Fire Classification EI 60
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
Plastic and steel conduits, with or w/o trays	≤ Ø16mm per conduit	-	-	C/U	-
Aluminium bus-bars	≤ 592 x 150mm	≤ 5275mm^2	≥ 50mm thick x 500mm long FR Board 1-S	-	-
Steel pipes	≤ Ø22mm per pipe	-	None	C/U	-
	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø63mm per pipe	-	≥ 2300µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/U	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	9mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø165mm per pipe	-	13 - 32mm thick continuous elastomeric or PE	U/U	2 layers of 50mm wide both sides
	≤ Ø324mm per pipe	-	32 - 50mm thick continuous elastomeric or PE	C/U	3 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	15mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø273mm per pipe	-	25 - 100mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass wool ≥ 75kg/m^3	C/C	-
	≤ Ø273mm per pipe	-	30 - 60mm thick continuous glass wool ≥ 75kg/m^3	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø273mm per pipe	-	≥ 30mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	≤ Ø40mm per pipe	-	-	C/C	-

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Copper pipes	≤ Ø6mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø15mm per pipe	-	15mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø159mm per pipe	-	100mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	30 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø75mm per pipe	-	25 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.7-7.4mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
PE, ABS and SAN+PVC pipes	≤ Ø32mm per pipe	2.0-3.0mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.8-12.0mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	18.7mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	23.7mm	-	C/C	16 layers of 50mm wide both sides
PP pipes	≤ Ø32mm per pipe	1.8-2.2mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-15.1mm	-	U/U	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-17.1mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-21.9mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	28.6mm	-	C/C	10 layers of 50mm wide both sides
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/U	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Wavin AS+ pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø200mm per pipe	-	-	C/C	6 layers of 50mm wide both sides
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Steel or plastic conduits, with or w/o trays	≤ Ø16mm per conduit	Any	-	C/U	-
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	2.7-15.1mm	-	U/C	2 layers of 50mm wide both sides
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø32mm PVC-U & PVC-C	1.5-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø40mm PE and ABS	2.0-3.7mm			
	≤ Ø40mm PP	1.8-2.0mm			

MIXED SERVICES PATTRESS FIXING
Fire Classification EI 60
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ Ø1250mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 1200mm high x 1700mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

MIXED SERVICE APERTURE

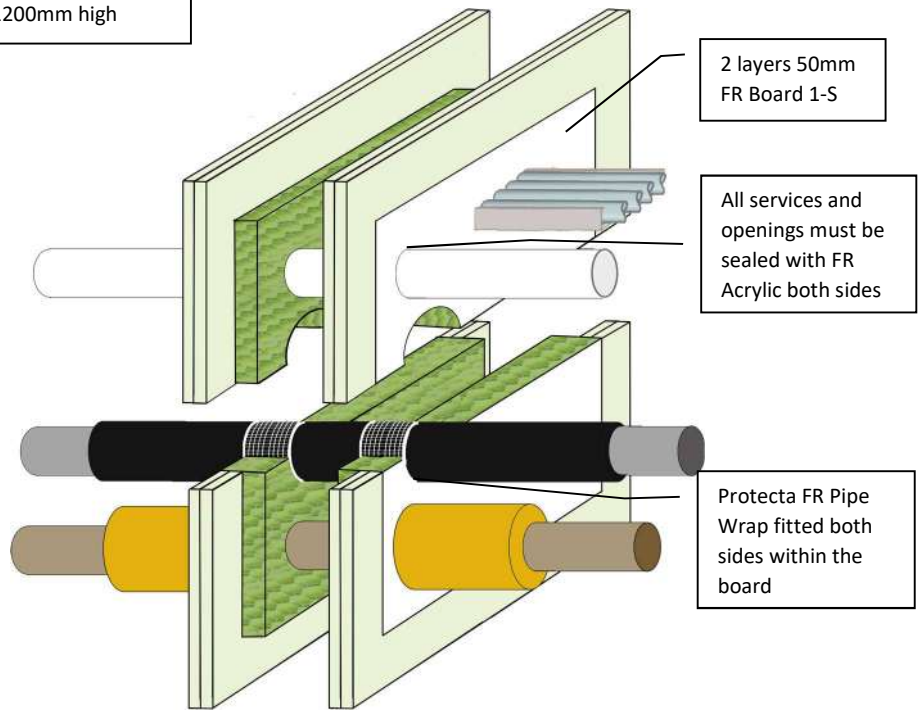
Fire Classification EI 90

Sound Reduction 52 dB

Installation details - Page 1 of 4

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. Protecta® FR Coating, FR Acrylic 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. 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. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Services

1. Cables & conduits
2. Bus-bars
3. Steel pipes
4. Gas pipes
5. Copper pipes
6. Alupex pipes
7. Plastic pipes
8. Composite pipes
9. Ventilation ducts

For full specification see pages 2 to 4.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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 http://www.protecta.eu

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

MIXED SERVICE APERTURE
Fire Classification EI 90
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Cables, single or bundled *	≤ Ø21mm cables ≤ Ø100mm	-	-	-	-
Aluminium bus-bars	≤ 592 x 150mm	≤ 5275mm^2	≥ 50mm thick x 500mm long FR Board 1-S	-	-
Steel pipes	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø324mm per pipe	-	32 - 50mm thick continuous elastomeric or PE	C/U	3 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	15mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø273mm per pipe	-	25 - 100mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	Ø40mm per pipe	-	-	C/C	-
Copper pipes	≤ Ø54mm per pipe	-	9 - 13mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø15mm per pipe	-	15mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø75mm per pipe	-	25 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø16mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides

* Tested; certification upgrade pending

MIXED SERVICE APERTURE
Fire Classification EI 90
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
PVC-U & PVC-C pipes	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.7-7.4mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 50mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.8-12.0mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 50mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-15.1mm	-	U/U	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-17.1mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 50mm wide both sides
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/U	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides

MIXED SERVICE APERTURE
Fire Classification EI 90
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Wavin AS+ pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø200mm per pipe	-	-	C/C	6 layers of 50mm wide both sides
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	2.7-15.1mm	-	U/C	2 layers of 50mm wide both sides
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø32mm PVC-U & PVC-C	1.5-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø40mm PE and ABS	2.0-3.7mm			
	≤ Ø40mm PP	1.8-2.0mm			
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m³ both sides	-	Protecta FR Damper
	≤ 1200mm high x 1700mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m³ both sides	-	Protecta FR Damper

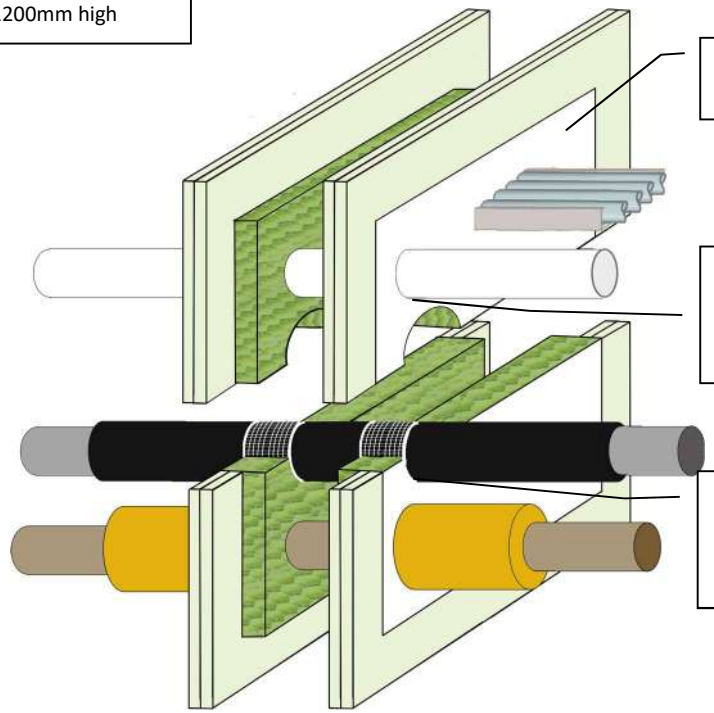
MIXED SERVICE APERTURE

Fire Classification EI 120

Sound Reduction 52 dB

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. Protecta® FR Coating, FR Acrylic 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. 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. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Services

1. Cables
2. Steel pipes
3. Gas pipes
4. Copper pipes
5. Alupex pipes
6. Plastic pipes
7. Composite pipes
8. Ventilation ducts

For full specification see pages 2 to 3.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, single or bundled *	≤ Ø21mm cables ≤ Ø100mm	-	-	-	-
Steel pipes	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m³	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/U	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
Flexible steel gas pipes	Ø40mm per pipe	-	-	C/C	-
Copper pipes	≤ Ø12mm per pipe	-	9 mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
PVC-U & PVC-C pipes	≤ Ø40mm per pipe	1.9 - 3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7 - 6.6mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0 - 9.5mm	-	C/C	6 layers of 50mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	2.4 - 3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø40mm per pipe	3.8 - 4.6mm	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	3.4 - 10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9 - 14.6mm	-	C/C	6 layers of 50mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8 - 5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7 - 10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9 - 14.6mm	-	C/C	6 layers of 50mm wide both sides
PEX pipe-in-pipes	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides

* Tested; certification upgrade pending

MIXED SERVICE APERTURE
Fire Classification EI 120
Sound Reduction 52 dB

List of services - Page 3 of 3

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 600mm high x 1000mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

MIXED SERVICES PATTRESS FIXING

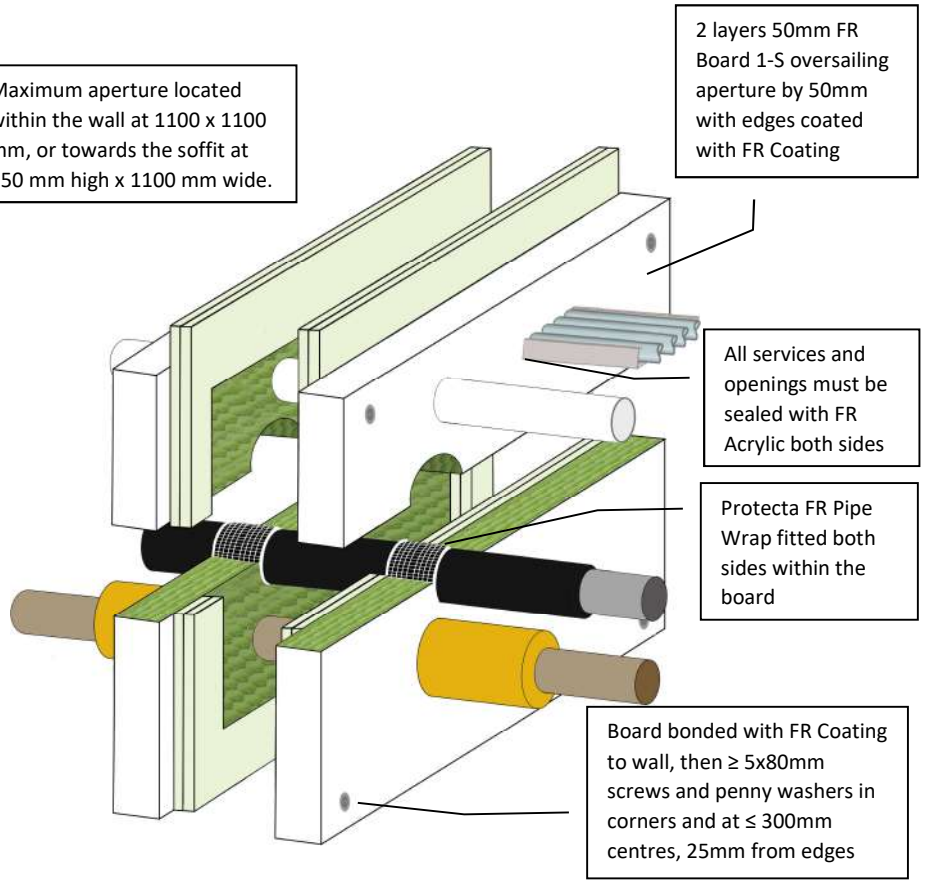
Fire Classification EI 120

Sound Reduction 52 dB

Installation details - Page 1 of 3

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. Protecta® FR Coating, FR Acrylic 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. Cut the required boards to suit accurately the aperture dimensions and type and size of service penetration(s). All board pieces can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). Boards must be oversailing the aperture by 50 mm with edges coated with FR Coating, bonded to the wall surface with FR Coating and screws with penny washers. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on the coated exposed sides of the boards. Visible edges of Protecta® FR Pipe Wraps can be sealed with Protecta® FR Acrylic (optional).
4. If the aperture is towards a soffit so the top side oversailing boards and fixings are unachievable, the boards should be sealed against the soffit and the top side fixings omitted.
5. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



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 100 mm. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the FR Boards.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall thickness of 120 mm and comprise steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

Services

1. Cables & conduits, with or w/o cable trays
2. Steel pipes
3. Gas pipes
4. Copper pipes
5. Alupex pipes
6. Plastic pipes
7. Composite pipes
8. Ventilation ducts

For full specification see pages 2 to 3.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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 http://www.protecta.eu

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 1/11/23

MIXED SERVICES PATTRESS FIXING
Fire Classification EI 120
Sound Reduction 52 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays *	≤ Ø21mm per cable	-	-	-	-
Plastic conduits, with or w/o trays *	≤ Ø16mm per conduit	-	-	-	-
Steel pipes	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m³	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/U	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
Flexible steel gas pipes	Ø40mm per pipe	-	-	C/C	-
Copper pipes	≤ Ø12mm per pipe	-	9 mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m³ both sides	C/C	-
PVC-U & PVC-C pipes	≤ Ø40mm per pipe	1.9 - 3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7 - 6.6mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0 - 9.5mm	-	C/C	6 layers of 50mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	2.4 - 3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø40mm per pipe	3.8 - 4.6mm	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	3.4 - 10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9 - 14.6mm	-	C/C	6 layers of 50mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8 - 5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7 - 10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9 - 14.6mm	-	C/C	6 layers of 50mm wide both sides

* Tested; certification upgrade pending

MIXED SERVICES PATTRESS FIXING
Fire Classification EI 120
Sound Reduction 52 dB
List of services - Page 3 of 3

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PEX pipe-in-pipes	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 600mm high x 1000mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

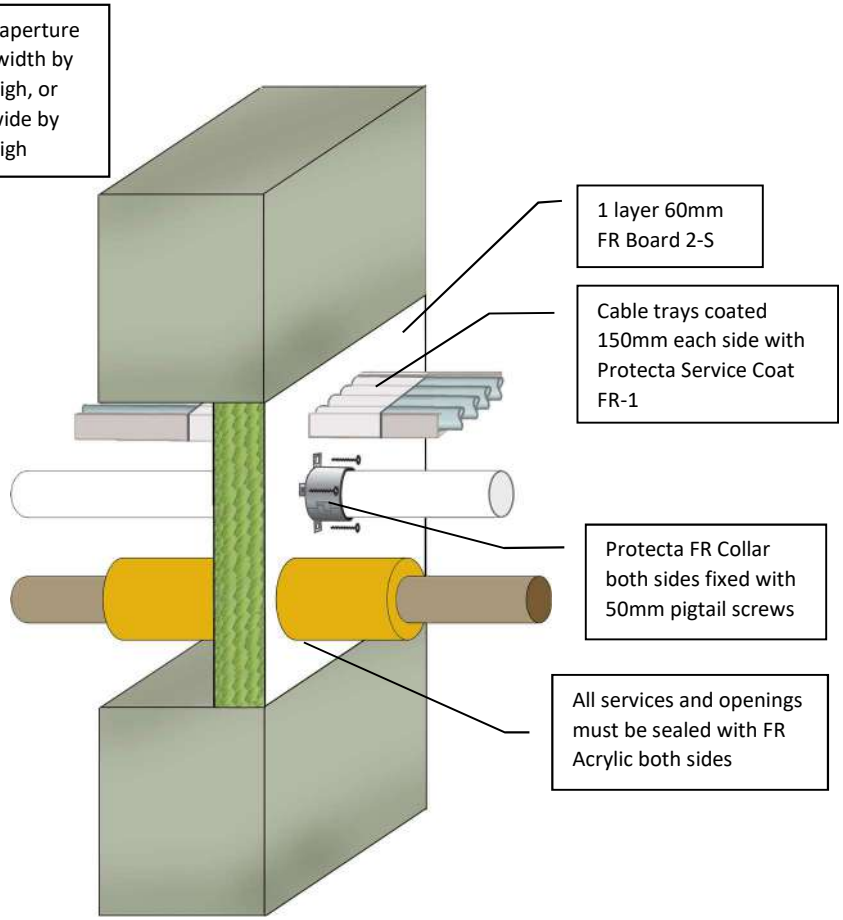
MIXED SERVICE APERTURE

Fire Classification EI 60

Sound Reduction 29 dB

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. Protecta® FR Coating, FR Acrylic 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. The board can be positioned to either side of the construction or anywhere in between.
4. An aperture with or without penetrating services, can include a steel or plastic sleeve casted or friction fitted. Plastic sleeves should have a maximum wall thickness of 36.3 mm.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both side(s) of the board(s).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Collar
Protecta ServiceCoat FR-1

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Services

1. Cables, single
2. Multiple cables with cable trays
3. Steel pipes
4. Copper pipes
5. Alupex pipes
6. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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 100mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation. Services should be supported at maximum 270 mm from both faces of the wall.

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale: **NTS**

Drawn by & date: K.B. 13/11/23

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 29 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Collars or Coat Back
Cables	≤ Ø21mm per cable	-	-	-	None needed
Cables single or bundled, with or without perforated cable trays and ladders	≤ Ø80mm per cable	-	-	-	300µ WFT Service Coat FR-1
Steel pipes	≤ Ø324mm per pipe	-	20 - 50mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø325mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø54mm per pipe	-	20-50mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Alupex pipes	≤ Ø75mm per pipe	-	25mm continuous glass or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	20 - 50mm continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø16mm per pipe	-	9mm thick continuous elastomeric or PE foam	C/C	Protecta FR Collar 50mm high
	≤ Ø75mm per pipe	-	13 - 25mm thick continuous elastomeric or PE foam	C/C	Protecta FR Collar 50/60mm high
	≤ Ø75mm per pipe	-	≥ 30mm thick x 60cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PVC-U and PVC-C pipes	≤ Ø110mm per pipe	1.9 – 6.6mm	-	U/C	Protecta FR Collar 50mm high
	≤ Ø160mm per pipe	3.1 – 9.5mm	-	C/C	Protecta FR Collar 60mm high
PE, ABS and SAN+PVC pipes	≤ Ø110mm per pipe	3.0 – 10.0mm	-	C/C	Protecta FR Collar 50mm high
	≤ Ø160mm per pipe	3.9 – 9.5mm	-	C/C	Protecta FR Collar 60mm high
PP pipes	≤ Ø90mm per pipe	1.8 – 4.6mm	-	C/C	Protecta FR Collar 50mm high
	≤ Ø160mm per pipe	2.7 – 9.1mm	-	C/C	Protecta FR Collar 60mm high

MIXED SERVICE APERTURE

Fire Classification E 120

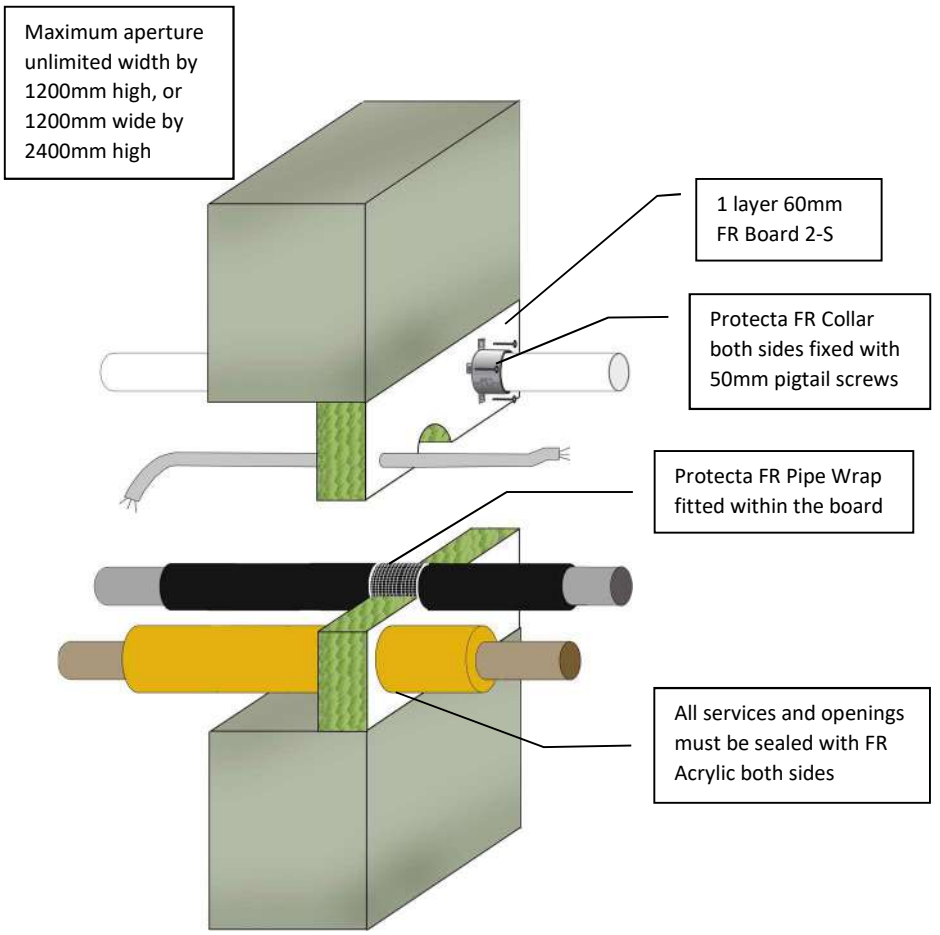
Sound Reduction 29 dB

Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Pipe Wrap
Protecta FR Collar

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

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. Protecta® FR Coating, FR Acrylic 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. The board can be positioned to either side of the construction or anywhere in between.
4. 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.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both side(s) of the board(s). Visible edges of Protecta® FR Pipe Wraps can be sealed with Protecta® FR Acrylic (optional).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Services

1. Cables
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
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MIXED SERVICE APERTURE
Fire Classification E 120
Sound Reduction 29 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps or Collars
Cables	≤ Ø21mm per cable	-	-	-	-
Steel pipes	≤ Ø165mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/U	1 layer of 50mm wide
	≤ Ø219mm per pipe	-	30-50mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø325mm per pipe	-	50mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø325mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Alupex pipes	≤ Ø75mm per pipe	-	≥ 30mm thick x 60cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PVC-U and PVC-C pipes	≤ Ø50mm per pipe	1.9 – 3.7mm	-	U/C	Protecta FR Collar 50mm high
PE, ABS and SAN+PVC pipes	≤ Ø50mm per pipe	3.0 – 4.6mm	-	U/C	Protecta FR Collar 50mm high

MIXED SERVICE APERTURE

Fire Classification EI 60

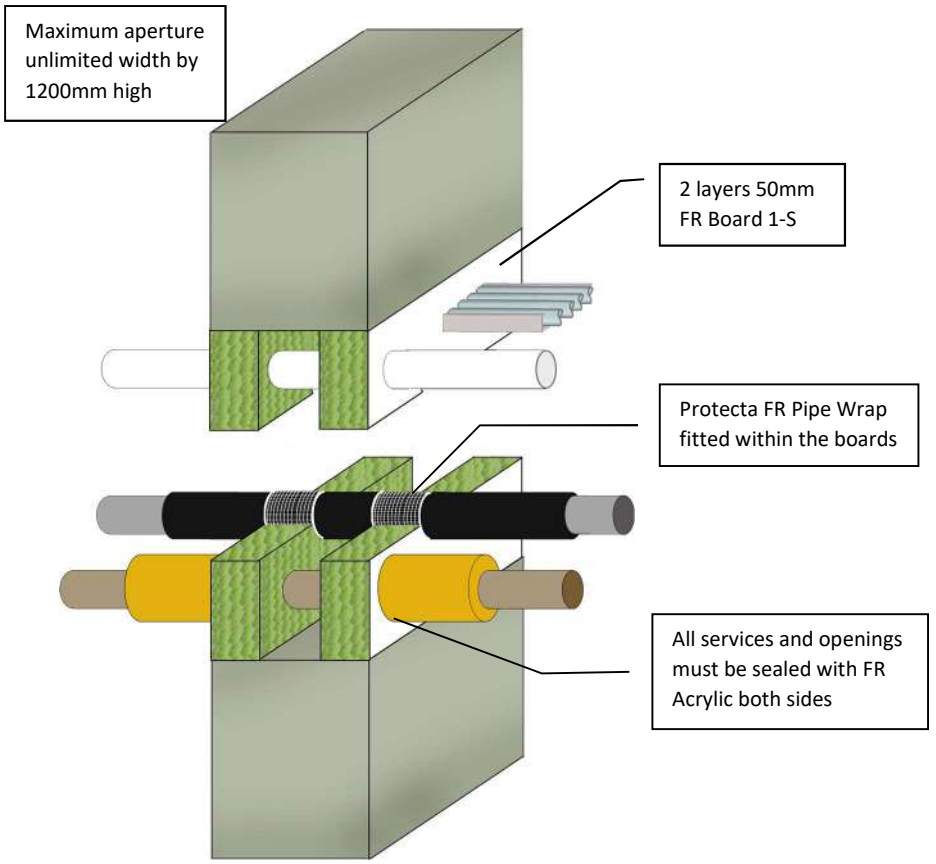
Sound Reduction 52 dB

Installation details - Page 1 of 6

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. Protecta® FR Coating, FR Acrylic 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. The coated side of the boards should normally be flush with the surface of the wall on both sides, but the boards can also be fitted back-to-back.
4. 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 36.3 mm.
5. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
6. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
7. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.

ETA 22/0733 UKTA 22/0025



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products

Protecta FR Board
Protecta FR Acrylic
Protecta FR Pipe Wrap
Protecta Service Coat FR-1
Protecta FR Damper

Construction

Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 350 kg/m³

Services

1. Cables & conduits, with or w/o cable trays
2. Bus-bars
3. Steel pipes
4. Gas pipes
5. Copper pipes
6. Alupex pipes
7. Plastic pipes
8. Composite pipes
9. Ventilation ducts

For full specification see pages 2 - 6.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

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Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
Plastic and steel conduits, with or w/o trays	≤ Ø16mm per conduit	-	-	C/U	-
Aluminium bus-bars	≤ 592 x 150mm	≤ 5275mm^2	≥ 50mm thick x 500mm long FR Board 1-S	-	-
Steel pipes	≤ Ø22mm per pipe	-	None	C/U	-
	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/C	-
	≤ Ø63mm per pipe	-	≥ 2300µ WFT x 200mm length Protecta Service Coat FR-1 both sides	C/U	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø54mm per pipe	-	9mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø165mm per pipe	-	13 - 32mm thick continuous elastomeric or PE	U/U	2 layers of 50mm wide both sides
	≤ Ø324mm per pipe	-	32 - 50mm thick continuous elastomeric or PE	C/U	3 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	15mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø273mm per pipe	-	25 - 100mm thick continuous phenolic	C/U	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass wool ≥ 75kg/m^3	C/C	-
	≤ Ø273mm per pipe	-	30 - 60mm thick continuous glass wool ≥ 75kg/m^3	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø273mm per pipe	-	≥ 30mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	≤ Ø40mm per pipe	-	-	C/C	-

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Copper pipes	≤ Ø6mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	40mm thick continuous PU	C/C	2 layers of 50mm wide both sides
	≤ Ø15mm per pipe	-	15mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø159mm per pipe	-	100mm thick continuous phenolic	C/C	1 layer of 50mm wide both sides
	≤ Ø15mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	30 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long glass wool ≥ 75 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø75mm per pipe	-	25 - 60mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.7-7.4mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
PE, ABS and SAN+PVC pipes	≤ Ø32mm per pipe	2.0-3.0mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.8-12.0mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	18.7mm	-	C/C	10 layers of 50mm wide both sides
	≤ Ø400mm per pipe	23.7mm	-	C/C	16 layers of 50mm wide both sides
PP pipes	≤ Ø32mm per pipe	1.8-2.2mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø68mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-15.1mm	-	U/U	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-17.1mm	-	U/C	3 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-21.9mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø178mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø260mm per pipe incl. insul.	1.8-14.6mm	9 - 50mm thick continuous elastomeric or PE	C/C	10 layers of 50mm wide both sides
	≤ Ø315mm per pipe	28.6mm	-	C/C	10 layers of 50mm wide both sides
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	C/U	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Wavin AS+ pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	≤ Ø200mm per pipe	-	-	C/C	6 layers of 50mm wide both sides
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Steel or plastic conduits, with or w/o trays	≤ Ø16mm per conduit	Any	-	C/U	-
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	4.2-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	2.7-15.1mm	-	U/C	2 layers of 50mm wide both sides
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø32mm PVC-U & PVC-C	1.5-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø40mm PE and ABS	2.0-3.7mm			
	≤ Ø40mm PP	1.8-2.0mm			

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 52 dB

Type of Services	Size of Services	Service wall thicknesses	Service Insulation	Pipe config	Pipe Wraps
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ Ø1250mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 1200mm high x 1700mm w	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

MIXED SERVICE APERTURE

Fire Classification EI 120

Sound Reduction 52 dB

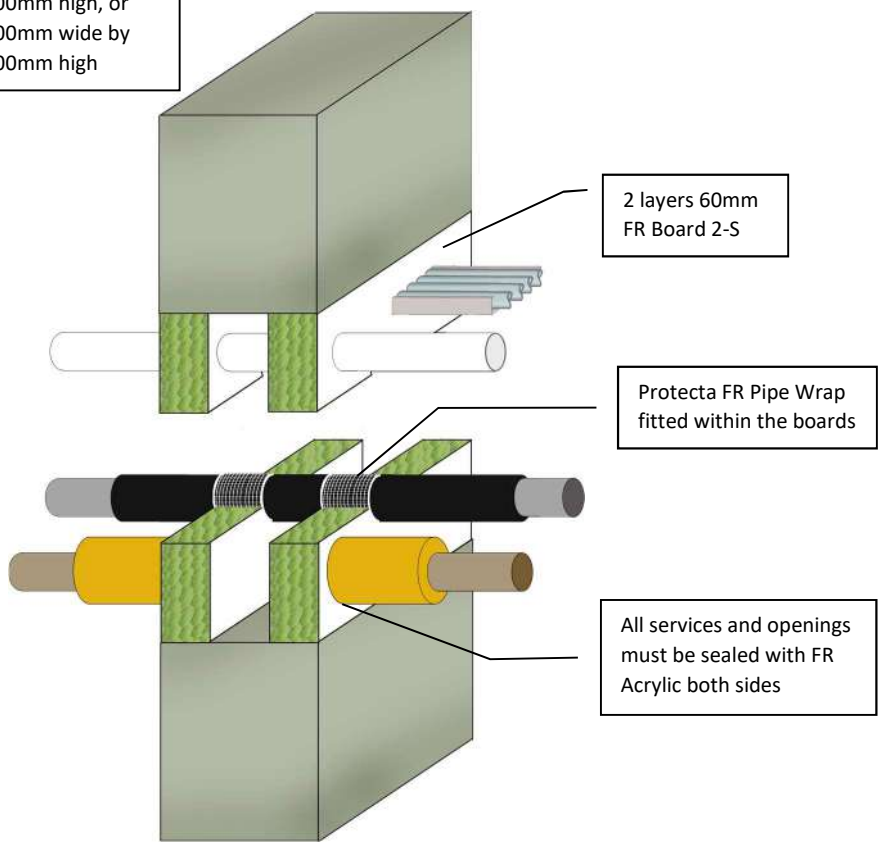
Installation details - Page 1 of 4

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. Protecta® FR Coating, FR Acrylic 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. 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.
4. 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.
5. The boards may be surrounded on two sides, horizontally and vertically, with Protecta® FR Flexi Board, maximum 400 mm wide.
6. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
7. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.

ETA 22/0733 UKTA 22/0025

Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high



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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap Protecta Service Coat FR-1 Protecta FR Damper
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Services

1. Cables & conduits, with or w/o cable trays
2. Steel pipes
3. Gas pipes
4. Copper pipes
5. Alupex pipes
6. Plastic pipes
7. Composite pipes
8. Ventilation ducts

For full specification see pages 2 - 4.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

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 http://www.protecta.eu

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables and conduits with or without cable trays	≤ Ø21mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	Cable trays or ladders	-	-	-	-
Steel pipes	≤ Ø12mm per pipe	-	None	C/U	-
	≤ Ø63mm per pipe	-	≥ 1150µ WFT x 200mm length Service Coat FR-1 both sides	C/C	-
	≤ Ø40mm per pipe	-	13mm thick continuous elastomeric or PE	U/U	1 layer of 50mm wide both sides
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Flexible steel gas pipes	Ø40mm per pipe	-	-	C/C	-
Copper pipes	≤ Ø12mm per pipe	-	None	C/U	-
	≤ Ø12mm per pipe	-	9mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø54mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
	≤ Ø16mm per pipe	-	≥ 20mm thick x 60cm long stone wool ≥ 80 kg/m^3 both sides	U/C	-
	≤ Ø75mm per pipe	-	≥ 30mm thick x 60cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.7-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 75mm wide both sides
	≤ Ø250mm per pipe	6.0-11.0mm	-	C/C	10 layers of 75mm wide both sides
	≤ Ø315mm per pipe	7.7-12.1mm	-	C/C	10 layers of 75mm wide both sides
	≤ Ø400mm per pipe	9.8-15.3mm	-	C/C	16 layers of 75mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø20mm per pipe	2.0mm	-	U/C	None
	≤ Ø32mm per pipe	3.0mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø40mm per pipe	3.8-4.6mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	3.4-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.9-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø160mm per pipe	9.6-14.6mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 75mm wide both sides
	≤ Ø315mm per pipe	28.6mm	-	C/C	10 layers of 75mm wide both sides
	≤ Ø400mm per pipe	36.3mm	-	C/C	16 layers of 75mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-11.4mm	-	C/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 75mm wide both sides

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Plastic pipe bundles ≤ Ø107mm	≤ Ø32mm PVC-U & PVC-C	1.0-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø32mm PE and ABS	2.0-4.4mm			
	≤ Ø32mm PP	1.8-4.4mm			
PEX pipe-in-pipes	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
Polo-Kal NG pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide both sides
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide both sides
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide both sides
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide both sides
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	1.0-6.6mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.0-10.0mm	-	U/C	2 layers of 50mm wide both sides
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	1.8-10.0mm	-	U/C	2 layers of 50mm wide both sides
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 20cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper
	≤ 600mm high x 1000mm wide	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 both sides	-	Protecta FR Damper

MIXED SERVICE APERTURE

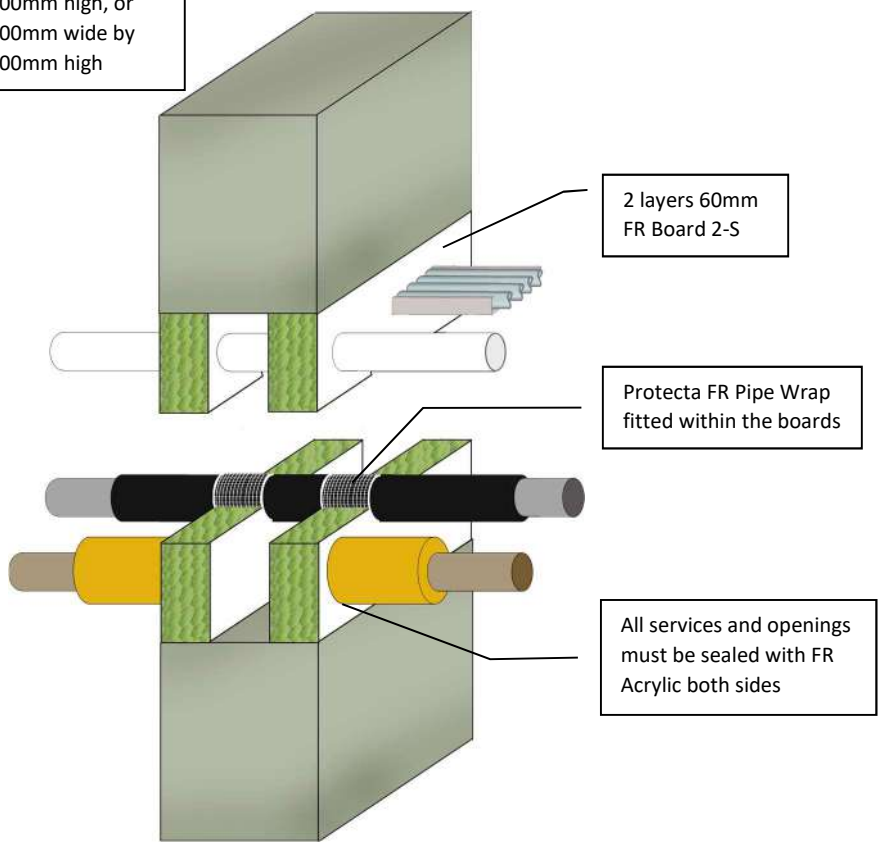
Fire Classification EI 180

Sound Reduction 52 dB

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. Protecta® FR Coating, FR Acrylic 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. 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.
4. 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.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.

Maximum aperture unlimited width by 1200mm high, or 1200mm wide by 2400mm high



Products Protecta FR Board, Protecta FR Acrylic, Protecta FR Pipe Wrap

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

Services

1. Cables & conduits, with or w/o cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see pages 2 - 3.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

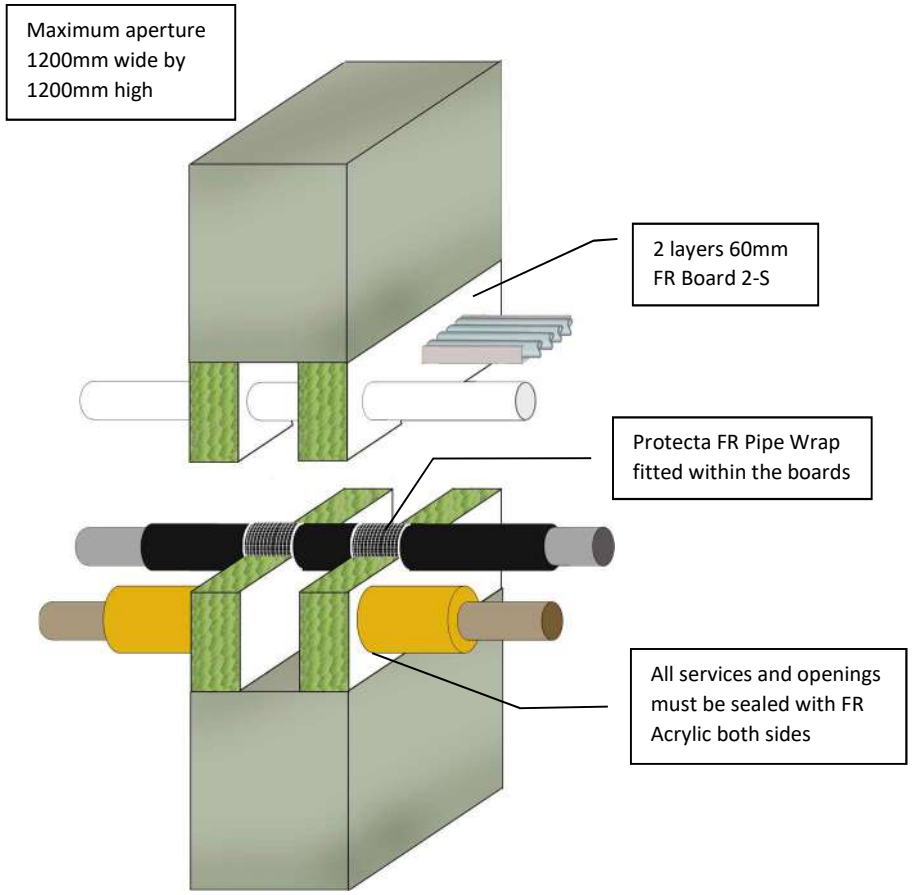
Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables and conduits with or without cable trays	≤ Ø21mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	Cable trays or ladders	-	-	-	-
Steel pipes	≤ Ø40mm per pipe	-	20mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø324mm per pipe	-	30 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø12mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Alupex pipes	≤ Ø16mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	U/C	-
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.7-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 75mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	2.4-4.6mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	3.4-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.9-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-9.5mm	-	U/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 75mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8-5.5mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-11.4mm	-	C/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	C/C	6 layers of 50mm wide both sides
	≤ Ø200mm per pipe	4.9-18.2mm	-	C/C	6 layers of 75mm wide both sides

MIXED SERVICE APERTURE
Fire Classification EI 180
Sound Reduction 52 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Plastic pipe bundles ≤ Ø107mm	≤ Ø32mm PVC-U & PVC-C	1.0-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø32mm PE and ABS	2.0-4.4mm			
	≤ Ø32mm PP	1.8-4.4mm			

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. Protecta® FR Coating, FR Acrylic 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. 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.
4. 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.
5. 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(s) can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive (optional). The board(s) must be friction fitted into the aperture with a tight fit. 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).
6. Board(s) can be over-painted with most emulsion or alkyd (gloss) paints. For a moisture proof seal protect the cured Protecta® FR Acrylic seals by painting over with Protecta® FR Coating.



CE ETA 22/0733 UKCA UKTA 22/0025 Protecta

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 100mm. 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 where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 270 mm from both faces of the wall.

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

MIXED SERVICE APERTURE

Fire Classification EI 240
Sound Reduction 52 dB

Installation details - Page 1 of 2

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Services

1. Cables
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- Belgian Regulation - Pass
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Y_1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y_2, Z_1 and Z_2.

Scale:	Drawn by & date:
NTS	K.B. 13/11/23

MIXED SERVICE APERTURE
Fire Classification EI 240
Sound Reduction 52 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables	≤ Ø14mm per cable	-	-	-	-
Steel pipes	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m³ both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m³ both sides	C/U	-
Copper pipes	≤ Ø12mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m³ both sides	C/U	-
Alupex pipes	≤ Ø16mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m³ both sides	U/C	-
PVC-U & PVC-C pipes	≤ Ø32mm per pipe	1.0-2.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.9-3.0mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-6.6mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	4.7-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.0-9.5mm	-	U/C	6 layers of 50mm wide both sides
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	2.4-4.6mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	3.4-10.0mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.9-7.4mm	-	U/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-9.5mm	-	U/C	6 layers of 50mm wide both sides
PP pipes	≤ Ø40mm per pipe	1.8-5.5mm	-	U/C	1 layer of 50mm wide both sides
	≤ Ø110mm per pipe	2.7-10.0mm	-	C/C	2 layers of 50mm wide both sides
	≤ Ø125mm per pipe	3.1-11.4mm	-	C/C	4 layers of 50mm wide both sides
	≤ Ø160mm per pipe	4.9-14.6mm	-	C/C	6 layers of 50mm wide both sides
Plastic pipe bundles ≤ Ø107mm	≤ Ø32mm PVC-U & PVC-C	1.0-2.4mm	-	U/C	2 layers of 50mm wide both sides
	≤ Ø32mm PE and ABS	2.0-4.4mm			
	≤ Ø32mm PP	1.8-4.4mm			

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 48 dB

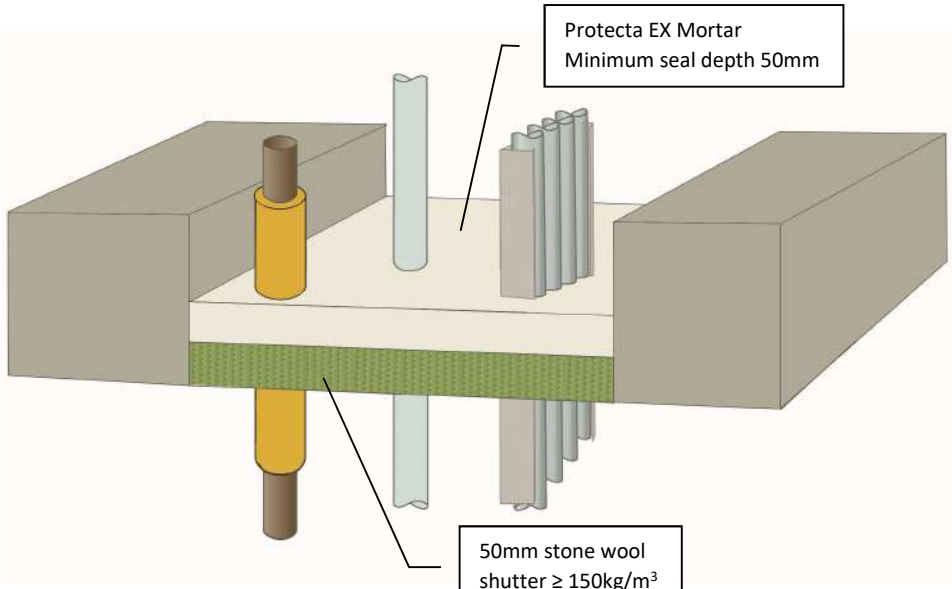
Installation details - Page 1 of 2

Products	Protecta EX Mortar Stone wool shutter
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Installation Instructions

1. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted.
2. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
3. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the construction or anywhere in between.
5. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged, with for instance a PU foam, and the whole thickness of the floor should be cast with the mortar.
6. Install a stone wool shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal – any small openings should be sealed with Protecta® FR Acrylic
7. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For casting a 2 to 1 mix is suitable (mortar to water).
8. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.

Maximum aperture
1200 x 2400mm



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 100mm. Services should be a minimum of 20mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 450mm from the top face of the floor.

Services

1. Cables, conduits, conductors and cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- EMICODE – Pass/EC1 PLUS
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Z_2 - Intended for use in internal conditions with humidity classes other than Z_1, excluding temperatures below 0 °C.

CE ETA 22/0748
UKCA UKTA 22/0033
Protecta

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 18/11/23

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, with or without trays or ladders	≤ Ø21mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	≤ 95mm^2 non-sheathed conductors	-	-	-	-
Steel pipes	≤ Ø16mm per pipe	-	None	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	Ø6mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø16mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	25 - 50mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
PVC-U and PVC-C pipes	≤ Ø40mm per pipe	1.6-3.4mm	-	U/C	None
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None

MIXED SERVICE APERTURE

Fire Classification E 120

Sound Reduction 48 dB

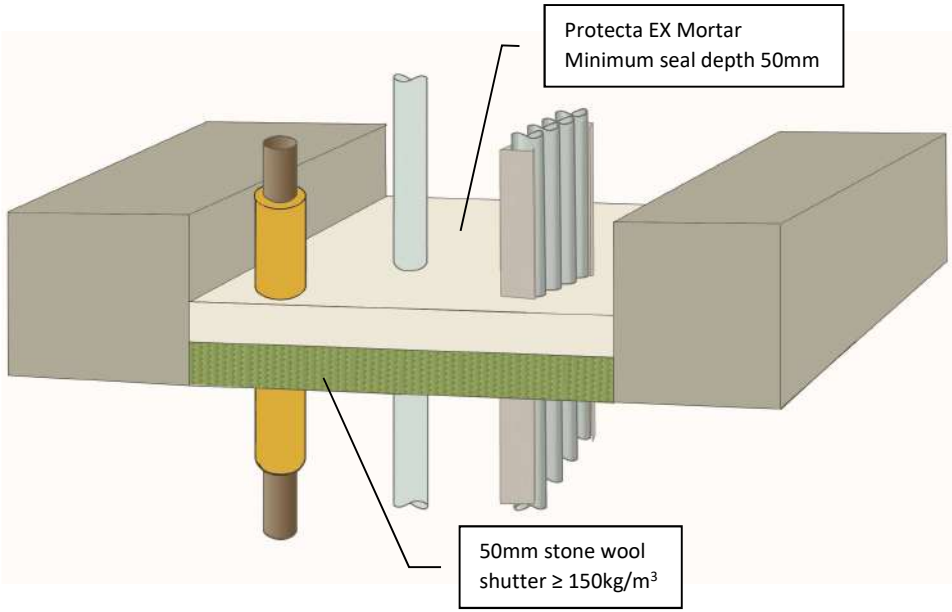
Installation details - Page 1 of 2

Products	Protecta EX Mortar Stone wool shutter
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Installation Instructions

1. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted.
2. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
3. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the construction or anywhere in between.
5. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged, with for instance a PU foam, and the whole thickness of the floor should be cast with the mortar.
6. Install a stone wool shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal – any small openings should be sealed with Protecta® FR Acrylic
7. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For casting a 2 to 1 mix is suitable (mortar to water).
8. Once the desired consistency is achieved pour or trowel the mortar onto the shutter board making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.

Maximum aperture
1200 x 2400mm



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 100mm. Services should be a minimum of 20mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 450mm from the top face of the floor.

Services

1. Cables, conduits, conductors and cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- EMICODE – Pass/EC1 PLUS
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Z_2 - Intended for use in internal conditions with humidity classes other than Z_1, excluding temperatures below 0 °C.

CE ETA 22/0748

UKCA UKTA 22/0033

Protecta®

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 18/11/23

MIXED SERVICE APERTURE
Fire Classification E 120
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, with or without trays	≤ Ø21mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	≤ 95mm^2 non-sheathed conductors	-	-	-	-
Steel pipes	≤ Ø324mm per pipe	-	None	C/U	-
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
Copper pipes	≤ Ø54mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
Alupex pipes	≤ Ø75mm per pipe	-	None	C/C	-
	≤ Ø16mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	25 - 50mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
PVC-U and PVC-C pipes	≤ Ø40mm per pipe	1.6-3.4mm	-	U/C	None
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None

MIXED SERVICE APERTURE

Fire Classification EI 60

Sound Reduction 48 dB

Products	Protecta EX Mortar Protecta FR Pipe Wrap
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Services

1. Cables, conductors and cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes
6. Composite pipes
7. Conduits
8. Ventilation ducts

For full specification see pages 2 - 4.

Indoor air comfort test results

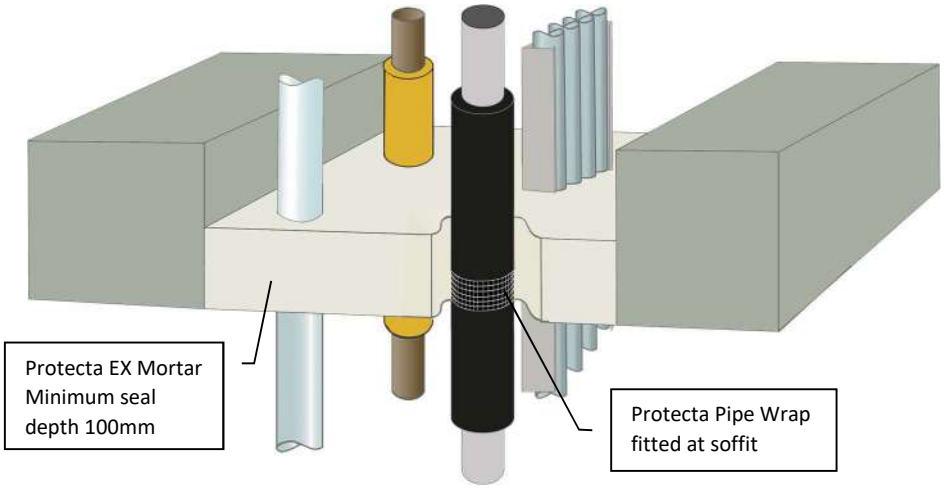
- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- EMICODE – Pass/EC1 PLUS
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Z_2 - Intended for use in internal conditions with humidity classes other than Z_1, excluding temperatures below 0 °C.

Installation Instructions

1. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted.
2. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
3. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the construction or anywhere in between.
5. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged, with for instance a PU foam, and the whole thickness of the floor should be cast with the mortar.
6. Install a temporary or permanent shutter to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
7. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For casting a 2 to 1 mix is suitable (mortar to water).
8. Once the desired consistency is achieved pour or trowel the mortar onto the shutter making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.



Loadbearing Properties

Soft body impact, serviceability 500Nm. Soft body impact, safety in use 700Nm. Hard body impact serviceability 6Nm. Hard body impact, safety in use 10Nm. Concentrated load to 15kN. Tested according to ETAG 026-2 and EOTA TR001 Clause 2. The edges must be moistened for good adhesion.

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 100mm. Services should be a minimum of 20mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 450mm from the top face of the floor.

CE ETA 22/0748

UKCA UKTA 22/0033

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Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

NTS	K.B. 18/11/23

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, with or without trays or ladders	≤ Ø80mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	≤ 95mm^2 non-sheathed conductors	-	-	-	-
Steel pipes	≤ Ø16mm per pipe	-	None	C/U	-
	≤ Ø40mm per pipe	-	20 - 24mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø165mm per pipe	-	13 - 19mm thick continuous elastomeric or phenolic	C/U	1 layer of 50mm wide soffit side
	≤ Ø324mm per pipe	-	25mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø324mm per pipe	-	26 - 50mm thick continuous elastomeric or phenolic	C/U	3 layers of 50mm wide soffit side
	≤ Ø76mm per pipe	-	9 mm thick continuous PE foam	C/U	1 layer of 50mm wide soffit side
	≤ Ø76mm per pipe	-	10 - 30mm thick continuous PE foam	C/U	2 layers of 50mm wide soffit side
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø6mm per pipe	-	None	C/C	-
	≤ Ø54mm per pipe	-	9 - 25mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	40mm thick continuous PU-foam	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø75mm per pipe	-	9 - 25mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø16mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	25 - 50mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PVC-U and PVC-C pipes	≤ Ø40mm per pipe	1.6-3.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.6mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.5-7.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.5-9.5mm	-	C/C	6 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	9.5mm	-	U/C	6 layers of 50mm wide soffit side
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	2.5-10.0mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.9-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide soffit side
	≤ Ø250mm per pipe	7.8mm	-	C/C	7 layers of 75mm wide soffit side
PP pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.3mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.4-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide soffit side
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide soffit side
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side

MIXED SERVICE APERTURE
Fire Classification EI 60
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Polo-Kal NG pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Wavin AS+ pipes	≤ Ø50mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide soffit side
Conduits of PE, ABS & SAN+PVC pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-10.0mm	-	U/C	2 layers of 50mm wide soffit side
Conduits of PP pipe	≤ Ø110mm w/cables ≤ Ø14mm	3.4-6.3mm	-	U/C	2 layers of 50mm wide soffit side
Plastic pipe bundles ≤ Ø110mm with or without cables ≤ Ø14mm	≤ Ø20mm PVC-U & PVC-C	1.0-1.5mm	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø32mm PE and ABS	2.0-2.3mm			
	≤ Ø20mm PP	1.9mm			
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 15cm long stonewool mat ≥80kg/m^3 top side	-	Protecta FR Damper
	≤ Ø1000mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 top side	-	Protecta FR Damper
	≤ 1000 x 1000mm	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m^3 top side	-	Protecta FR Damper

MIXED SERVICE APERTURE

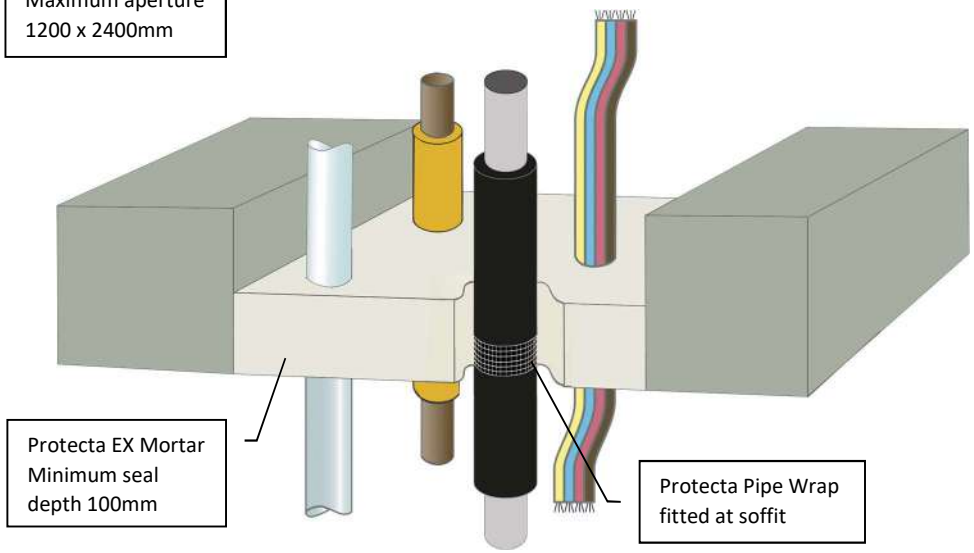
Fire Classification EI 120

Sound Reduction 48 dB

Products	Protecta EX Mortar Protecta FR Pipe Wrap
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Installation Instructions

1. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted.
2. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
3. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the construction or anywhere in between.
5. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged, with for instance a PU foam, and the whole thickness of the floor should be cast with the mortar.
6. Install a temporary or permanent shutter to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
7. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For casting a 2 to 1 mix is suitable (mortar to water).
8. Once the desired consistency is achieved pour or trowel the mortar onto the shutter making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.



Loadbearing Properties

Soft body impact, serviceability 500Nm. Soft body impact, safety in use 700Nm. Hard body impact serviceability 6Nm. Hard body impact, safety in use 10Nm. Concentrated load to 15kN. Tested according to ETAG 026-2 and EOTA TR001 Clause 2. The edges must be moistened for good adhesion.

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 100mm. Services should be a minimum of 20mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 450mm from the top face of the floor.

Services

1. Cables
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes
6. Composite pipes
7. Conduits
8. Ventilation ducts

For full specification see pages 2 - 4.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- EMICODE – Pass/EC1 PLUS
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Z_2 - Intended for use in internal conditions with humidity classes other than Z_1, excluding temperatures below 0 °C.

CE ETA 22/0748

UKCA UKTA 22/0033

Protecta

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 http://www.protecta.eu

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

Scale:	Drawn by & date:
NTS	K.B. 18/11/23

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables in tied bundles	≤ Ø21mm cables in bundles ≤ Ø100mm	-	-	-	-
Conduits w/cables ≤ Ø14mm	≤ Ø16mm plastic conduits	-	-	C/U	-
	≤ Ø110mm PVC conduits	2.7-6.6mm	-	U/C	2 layers of 50mm wide soffit side
Steel pipes	≤ Ø16mm per pipe	-	None	C/U	-
	≤ Ø40mm per pipe	-	20 - 24mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø165mm per pipe	-	13 - 19mm thick continuous elastomeric or phenolic	C/U	1 layer of 50mm wide soffit side
	≤ Ø324mm per pipe	-	25mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø324mm per pipe	-	26 - 50mm thick continuous elastomeric or phenolic	C/U	3 layers of 50mm wide soffit side
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø6mm per pipe	-	None	C/C	-
	≤ Ø12mm per pipe	-	9mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	19mm thick continuous elastomeric	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	19 - 25mm thick continuous phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø25mm per pipe	-	9 - 13mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø75mm per pipe	-	25mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø16mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	25 - 50mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PVC-U and PVC-C pipes	≤ Ø40mm per pipe	1.6-3.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.6mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.5-7.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.5mm	-	C/C	6 layers of 50mm wide soffit side
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	2.5-10.0mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.9-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide soffit side
	≤ Ø250mm per pipe	7.8mm	-	C/C	7 layers of 75mm wide soffit side
PP pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.3mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.4-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide soffit side
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide soffit side
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side

MIXED SERVICE APERTURE
Fire Classification EI 120
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Polo-Kal NG pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Wavin AS+ pipes	≤ Ø50mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 15cm long stonewool mat ≥80kg/m^3 top side	-	Protecta FR Damper

MIXED SERVICE APERTURE

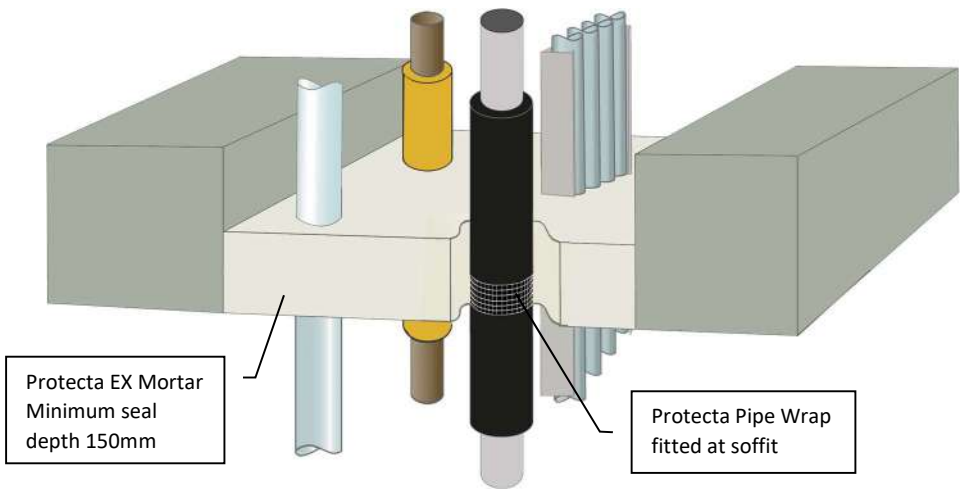
Fire Classification EI 120

Sound Reduction 48 dB

Installation details - Page 1 of 5

Installation Instructions

1. An aperture with or without penetrating services, can include a steel sleeve casted or friction fitted.
2. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
3. Any bare metal in contact with the mortar must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the construction or anywhere in between.
5. When sealing hollow floor slabs or boards, the seal should be level with the soffit side. There must be sufficient thickness of concrete below the void for the depth of mortar. Where this is not the case, tubular voids should be plugged, with for instance a PU foam, and the whole thickness of the floor should be cast with the mortar.
6. Install a temporary or permanent shutter to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
7. Pour clean water into a suitable mixing vessel and add the mortar to obtain the required consistency. Mix steadily at low speed and ensure that any lumps of powder are fully dispersed. Always add the mortar to the water, do not reverse this mixing process. For casting a 2 to 1 mix is suitable (mortar to water).
8. Once the desired consistency is achieved pour or trowel the mortar onto the shutter making sure that it flows into all corners and around services. Apply a firm pressure to the mortar to eliminate any trapped air bubbles. Build up to the required depth.



Products Protecta EX Mortar
Protecta FR Pipe Wrap

Construction Minimum floor thickness of 150 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m^3

Services

1. Cables, with or without cable trays
2. Steel pipes
3. Copper pipes
4. Alupex pipes
5. Plastic pipes
6. Composite pipes
7. Conduits
8. Ventilation ducts

For full specification see pages 2 - 5.

Loadbearing Properties

Soft body impact, serviceability 500Nm. Soft body impact, safety in use 700Nm. Hard body impact serviceability 6Nm. Hard body impact, safety in use 10Nm. Concentrated load to 15kN. Tested according to ETAG 026-2 and EOTA TR001 Clause 2. The edges must be moistened for good adhesion.

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 100mm. Services should be a minimum of 20mm from seal edges. Services within the system Protecta® EX Mortar seal do not require a minimum separation, except pipes where combustible pipe insulation penetrates the seal and plastic pipe penetrations, which should be a minimum of 30mm from other services in the aperture. Services should be supported at maximum 450mm from the top face of the floor.

Indoor air comfort test results

- French VOC Regulation - Pass/A+
- Italian Regulation (public procurement) - Pass
- German AgBB (2021)/ABG (2022) - Pass
- EMICODE – Pass/EC1 PLUS
- Blue Angel (DE-UZ 123) - Pass
- BREEAM - Pass/Exemplary Level
- Finnish M1 Classification - Pass/M1
- DICL - Pass/Emission Class 1
- ECOproduct - Pass/Very Low Emitting
- WELL (EU) - Pass
- LEED-EU (v4.1) BETA - Pass

Durability

Z_2 - Intended for use in internal conditions with humidity classes other than Z_1, excluding temperatures below 0 °C.

ETA 22/0748 UKTA 22/0033

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

Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB, United Kingdom
Tel: +44 (0) 1484 421 036

NTS	K.B. 18/11/23

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, with or without trays or ladders	≤ Ø21mm cables single or bundled	-	-	-	-
	≤ Ø16mm plastic conduits	-	-	C/U	-
	≤ 185mm^2 non-sheathed conductors	-	-	-	-
	≤ 500mm wide trays or ladders	-	-	-	-
Steel pipes	≤ Ø16mm per pipe	-	None	C/U	-
	≤ Ø40mm per pipe	-	20 - 24mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø165mm per pipe	-	13 - 19mm thick continuous elastomeric or phenolic	C/U	1 layer of 50mm wide soffit side
	≤ Ø324mm per pipe	-	25mm thick continuous elastomeric or phenolic	C/U	2 layers of 50mm wide soffit side
	≤ Ø324mm per pipe	-	26 - 50mm thick continuous elastomeric or phenolic	C/U	3 layers of 50mm wide soffit side
	≤ Ø12mm per pipe	-	9mm thick continuous PE foam	C/U	1 layer of 50mm wide soffit side
	≤ Ø324mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/U	-
Copper pipes	≤ Ø12mm per pipe	-	None	C/C	-
	≤ Ø12mm per pipe	-	9mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	19mm thick continuous elastomeric	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	19 - 25mm thick continuous phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	20 - 80mm thick continuous stone wool ≥ 80kg/m^3	C/C	-
	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-
Alupex pipes	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø25mm per pipe	-	9 - 13mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø75mm per pipe	-	25mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø16mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	25 - 50mm thick continuous glass- or stone wool ≥ 75kg/m^3	C/C	-
	≤ Ø75mm per pipe	-	≥ 20mm thick x 50cm long stone wool ≥ 80 kg/m^3 both sides	C/C	-

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PVC-U and PVC-C pipes	≤ Ø40mm per pipe	1.6-3.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.6mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.5-7.4mm	-	U/C	4 layers of 50mm wide soffit side
	Ø125mm per pipe	7.4mm	-	U/U	4 layers of 50mm wide soffit side
	≤ Ø160mm per pipe	4.5-9.5mm	-	U/C	6 layers of 50mm wide soffit side
	≤ Ø200mm per pipe	4.9-11.9mm	-	C/C	6 layers of 75mm wide soffit side
	Ø 315mm per pipe	7.7mm		C/C	10 layers of 75mm wide soffit side
PE, ABS and SAN+PVC pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	2.4-3.7mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø68mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	2.5-10.0mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	3.4-10.0mm	-	U/U	3 layers of 75mm wide soffit side
	≤ Ø125mm per pipe	3.9-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	Ø 125mm per pipe	11.4mm	-	U/U	4 layers of 50mm wide soffit side
	Ø 140mm per pipe	8.0-12.4mm	-	U/U	6 layers of 75mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/U	4 layers of 75mm wide soffit side
	≤ Ø160mm per pipe	3.9-4.8mm	-	U/U	10 layers of 75mm wide soffit side
	≤ Ø178mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	6 layers of 75mm wide soffit side
	≤ Ø200mm per pipe	6.2-18.2mm	-	C/C	6 layers of 75mm wide soffit side
	≤ Ø250mm per pipe	7.8mm	-	C/C	7 layers of 75mm wide soffit side
	≤ Ø260mm per pipe incl. insul.	3.0-9.5mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	10 layers of 75mm wide soffit side

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
PP pipes	≤ Ø40mm per pipe	1.8-4.4mm	-	U/C	None
	≤ Ø40mm per pipe	1.8-5.5mm	-	U/U	1 layer of 50mm wide soffit side
	≤ Ø68mm per pipe incl. insul.	1.8-9.1mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	1.9-6.3mm	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	3.7-10.5mm	-	U/U	4 layers of 50mm wide soffit side
	≤ Ø125mm per pipe	3.4-11.4mm	-	U/C	4 layers of 50mm wide soffit side
	Ø125mm per pipe	11.4mm	-	U/U	4 layers of 50mm wide soffit side
	Ø140mm per pipe	12.8mm	-	U/U	4 layers of 75mm wide soffit side
	≤ Ø160mm per pipe	4.9-14.6mm	-	U/C	6 layers of 50mm wide soffit side
	Ø160mm per pipe	14.6mm		U/U	4 layers of 75mm wide soffit side
	≤ Ø178mm per pipe incl. insul.	1.8-9.1mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	6 layers of 75mm wide soffit side
	≤ Ø200mm per pipe	4.9-18.2mm		C/C	6 layers of 75mm wide soffit side
	≤ Ø260mm per pipe incl. insul.	1.8-9.1mm	9 - 50mm thick continuous elastomeric or phenolic	C/C	10 layers of 75mm wide soffit side
	≤ Ø315mm per pipe	4.9-7.7mm		C/C	10 layers of 75mm wide soffit side
PEX pipe-in-pipes	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide soffit side
Aquatherm Green SDR9 pipes	Ø32mm per pipe	-	-	C/C	1 layer of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
BluePower pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Geberit Silent-PP pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side

MIXED SERVICE APERTURE
Fire Classification EI 120
Sound Reduction 48 dB

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Polo-Kal NG pipes	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Rehau Raupiano Plus pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	Ø125mm per pipe	-	-	U/C	4 layers of 50mm wide soffit side
	Ø160mm per pipe	-	-	U/C	6 layers of 50mm wide soffit side
Uponor Decibel pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Wavin AS+ pipes	≤ Ø50mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	C/C	2 layers of 50mm wide soffit side
Wavin SiTech pipes	≤ Ø50mm per pipe	-	-	U/U	2 layers of 50mm wide soffit side
	≤ Ø110mm per pipe	-	-	U/C	2 layers of 50mm wide soffit side
Conduits of PVC-U & PVC-C pipes	≤ Ø110mm w/cables ≤ Ø14mm	2.7-6.6mm	-	U/C	2 layers of 50mm wide soffit side
Ventilation ducts	≤ Ø400mm	-	≥ 30mm thick x 15cm long stonewool mat ≥80kg/m^3 top side	-	Protecta FR Damper

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Contact us

UK (North) Head Office and Factory
Polyseam Ltd,
15 St Andrews Road,
Huddersfield, HD1 6SB. United Kingdom.
Tel: +44(0)1484 421036
E: post.uk@polyseam.com

Norway
Polyseam AS,
Ravneveien 7, Linnestad Næringsområde
N-3174 Revetal, Norway.
T: +47 3330 6690
E: post.no@polyseam.com

Sweden
Polyseam AB,
c/o Lagerstore AB
Auroragränd 1
127 61 Skärholmen
T: +46 (0)8 124 563 00
E: post.se@polyseam.com

www.protecta.eu

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