

TECHNICAL HANDBOOK

Fire stopping of service penetrations

7th edition October 2021





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.

Polyseam has for the last 28 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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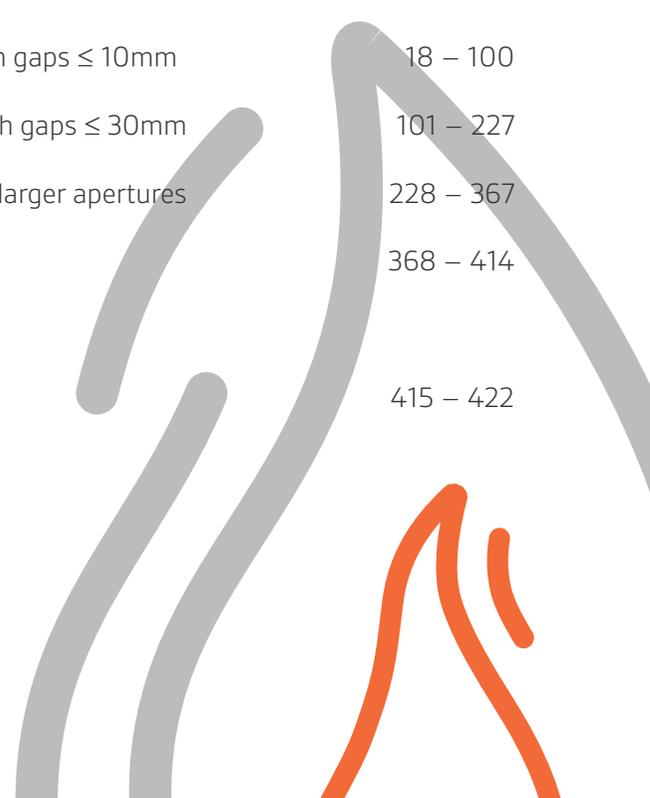
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Which products should be used where?

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	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 and cable trays	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 and cable trays	EX Mortar
		Metal pipes; un-insulated or mineral wool insulations	
		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 or linear seal 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 cm² and then use this to calculate the allowed diameter (\emptyset):

A rectangular aperture of 1200 x 2400mm would have a cross sectional area (A) 28,800cm²

radius = $\sqrt{(A/\pi)} = \sqrt{(28,800/3,14)} = \sqrt{9172} = 96\text{cm}$

$\emptyset = \text{radius} \times 2 = 96 \times 2 = \underline{\emptyset 192\text{cm}}$

An approval for a circular aperture is not allowed to be used in a rectangular aperture. The total amount of cross sectional area occupied by services (including insulation) should not exceed 60% of the penetration cross sectional area.

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

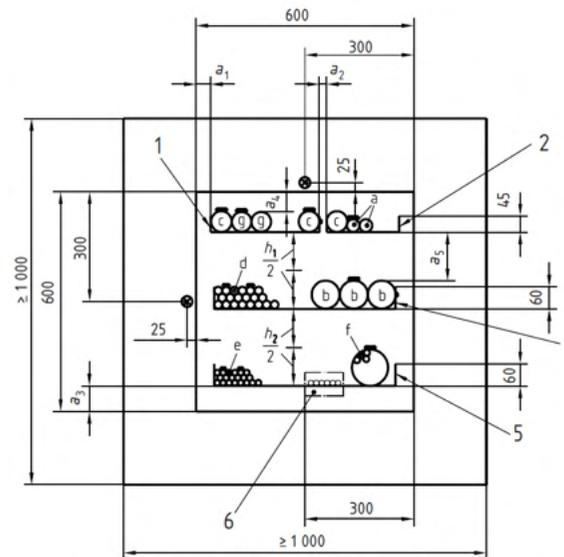
1200 mm width x 2400 mm length (tested)
1100 mm width x 2900 mm length (allowed)
1000 mm width x 4000 mm length (allowed)
900 mm width x 7000 mm length (allowed)
≤ 800 mm width x ∞ (infinite) length (allowed)

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, A2, A3 (A cables are $5 \times 1.5\text{mm}^2$) and B ($1 \times 95\text{mm}^2$). 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 \leq 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 standard configuration for cable penetration systems according to EN 1366-3

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.

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 closed 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.



Picture shows a fire test after 2 hours at BM Trada in UK

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 1366-3:2009:

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	U/U ¹⁾
	Unventilated drain	U/C ¹⁾
	Drain w/water trap	U/C ¹⁾
	Not at drainage	C/C ²⁾
Pipe in closed circuit (water, gas, air, electricity etc.)		C/C ^{2) 3)}
Flue gas recovery system pipe, plastic		U/C ¹⁾
Pipe with open ends and ≥ 50cm length on both sides, plastic		U/U ²⁾
Pipe supported by suspension system, metal	Fire rated support	C/U ¹⁾
	Non-fire rated	U/C ¹⁾
Waste disposal shaft pipe, metal		U/C ¹⁾

¹⁾ Stated in EN 1366-3:2009. ²⁾ Polyseam' s judgment based on tests. ³⁾ Metal pipes should have fire rated support.



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 gypsum (flexible) wall is tested then approvals for a concrete/masonry wall are also obtained, but not the other way around. So if only concrete/masonry walls have been tested, the test data cannot be used for a gypsum 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 in mm	Thickness of gypsum board EN 520 Type F in mm	Number of layers each side	Indicative fire resistance in minutes
69 - 75	12.5	1	30
94 - 100	12.5	2	60
94 - 100	12.5	2	90
122 - 130	15.0	2	120

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

Thickness of aerated concrete (650 +/- 200) kg/m ³ in mm	Indicative fire resistance in minutes
75 +/- 10	30
100 +/- 10	60
125 +/- 10	90
150 +/- 10	120
175 +/- 10	180
200 +/- 10	240



The standard construction for **concrete floors** shall have a density of (650 +/- 200) kg/m³ and a thickness of 150mm.

Supporting constructions and service supports

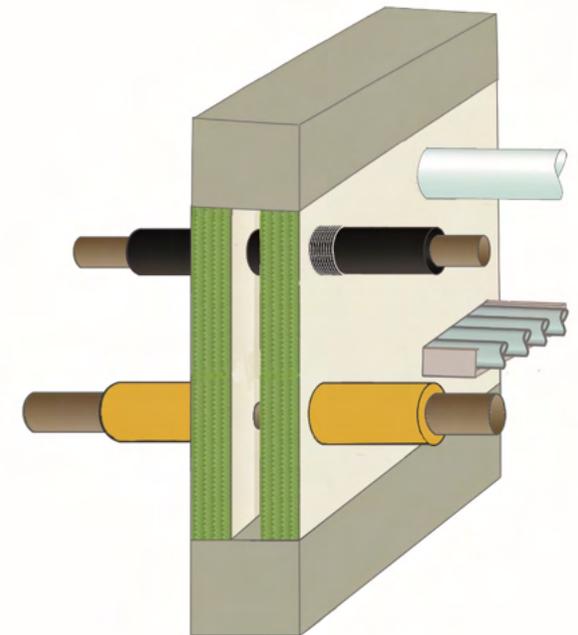
The supporting constructions (fire rated walls and floors) should be classified in accordance with EN 13501-2 for the required fire resistance period.

Services in floors should have the first support located maximum 500mm from the top face, and services in walls should have the first support located maximum 300mm from both faces of the wall. Thereafter the services should be supported according to the support system manufacturer's installation instructions.

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, metallic pipes, ventilation ducts, composite pipes and plastic pipes, with and without insulation, with mixed services within the same seal/aperture. The technical solutions in the following pages can be combined where the fire seals are built the same, however, the fire and sound classifications will for the whole seal be no better than the lowest classification given on any through service, what we term 'worst-case-scenario'.

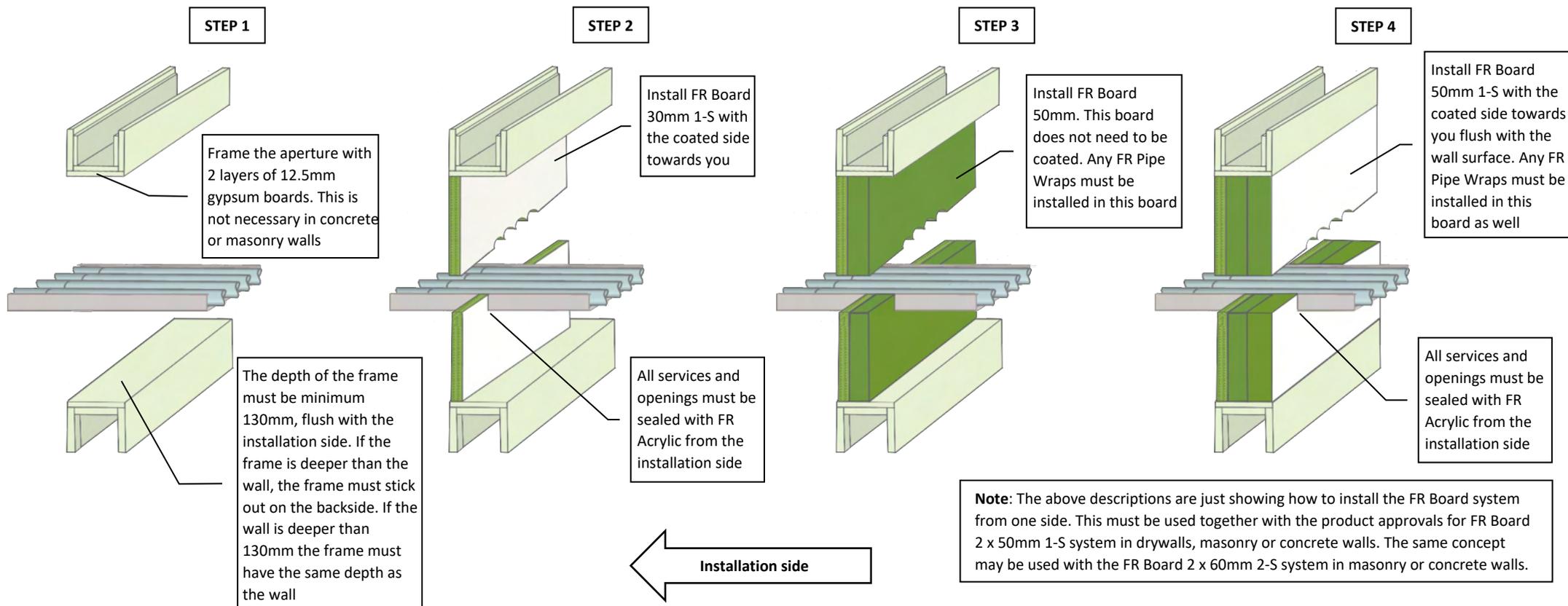
The technical solutions on the last pages of this handbook are for mixed services, but do not include all the different options and are provided as a quick guide. Here you can select the fire resistance and see what fire stopping system you require for a whole group of services, this simplifies the engineering and is of course very useful and helpful.



Normal on-site problems and solutions

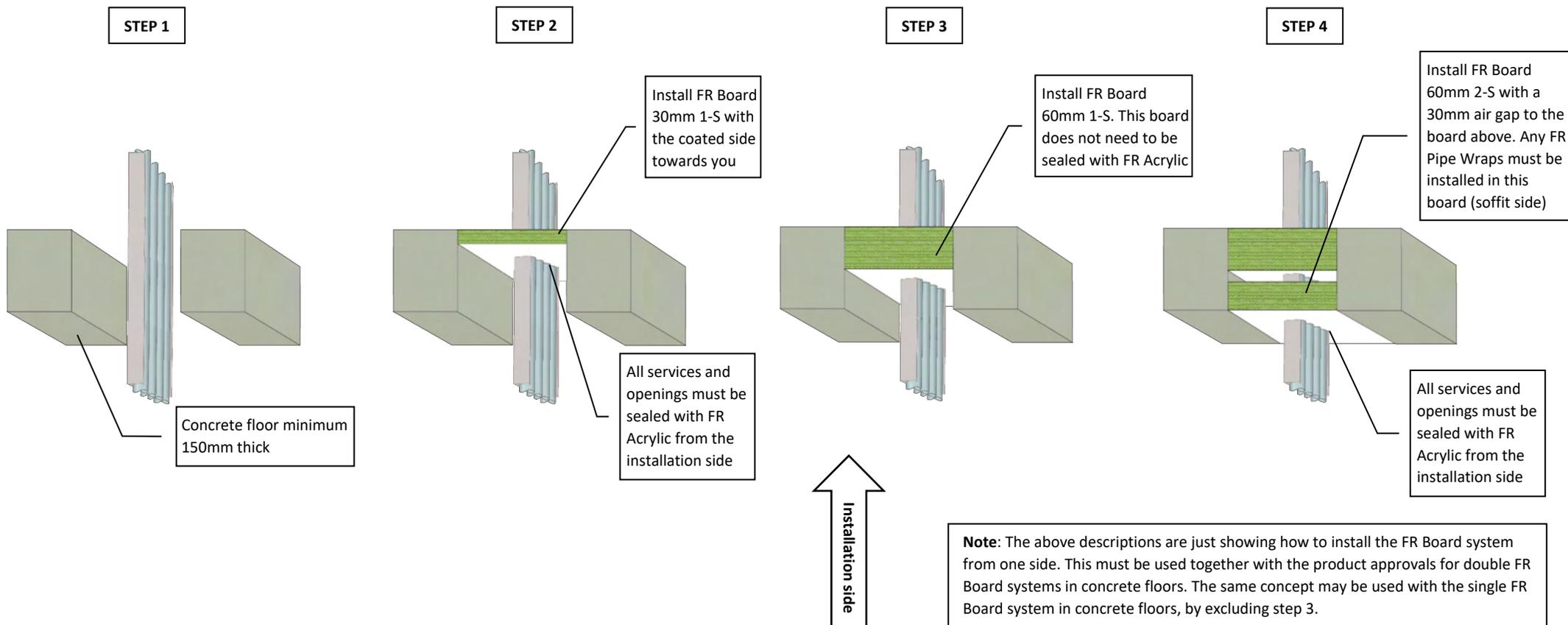
Single sided access, walls

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.



Single sided access, floors

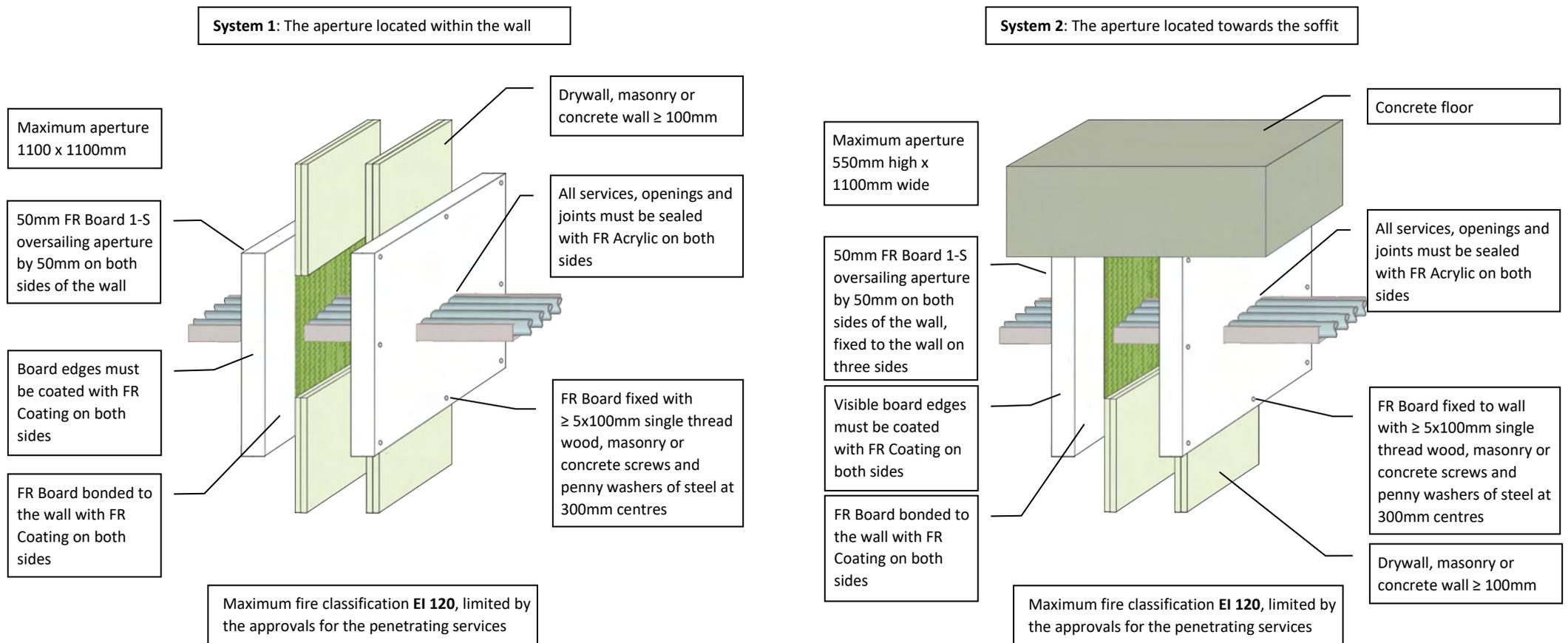
The Protecta FR Board system requires the sealing of gaps from both sides of a floor after insertion. However, with access to only one side, this is solvable by using an additional upper board with the coating facing towards the installer; it will result in the same fire seal as the certified solutions. Below are the detailed descriptions.



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:



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, 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 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.

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

A: Yes, the FR Acrylic 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 FR Acrylic 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 use stonewool backing with Protecta FR Acrylic, can I instead use Protecta Backing material?*

A: Yes, the Protecta backing is made of AES fibre 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 us and we will assess if we can make an Engineering Judgment.

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.

FAQ's

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.

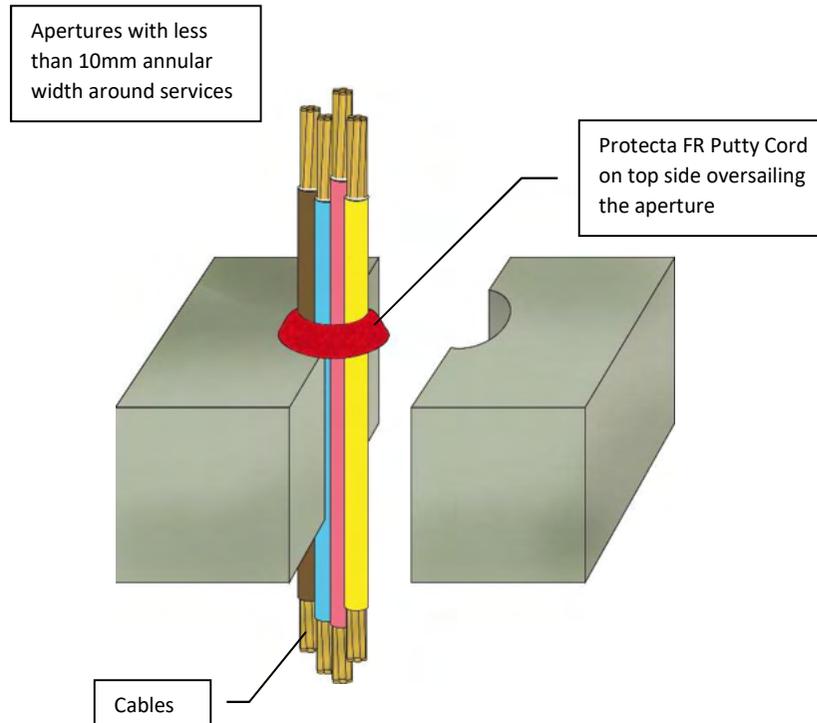
Appendix I

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Service penetration solutions with annular gaps $\leq 10\text{mm}$

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.



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/m ³

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

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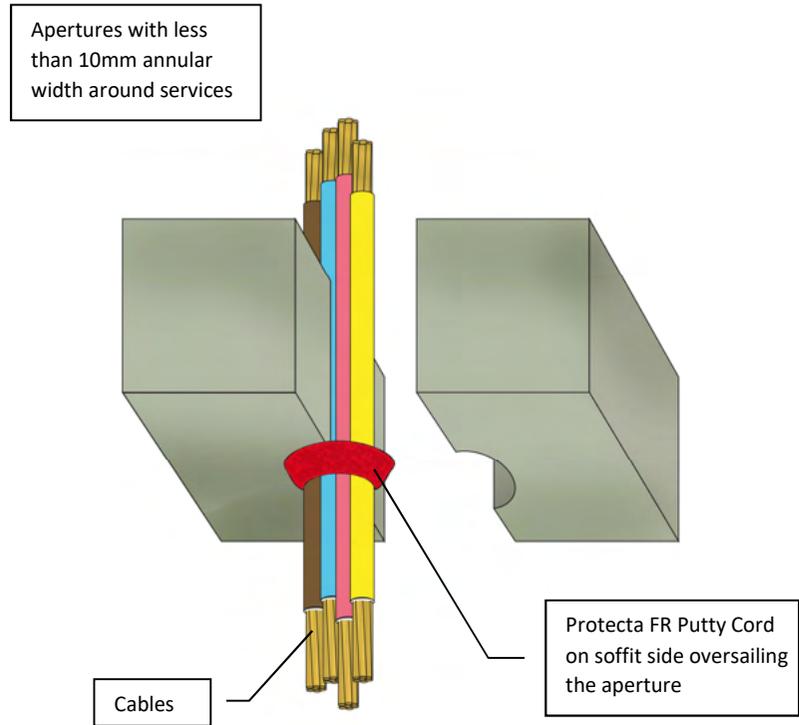
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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.



Client:

Job Title:

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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	
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

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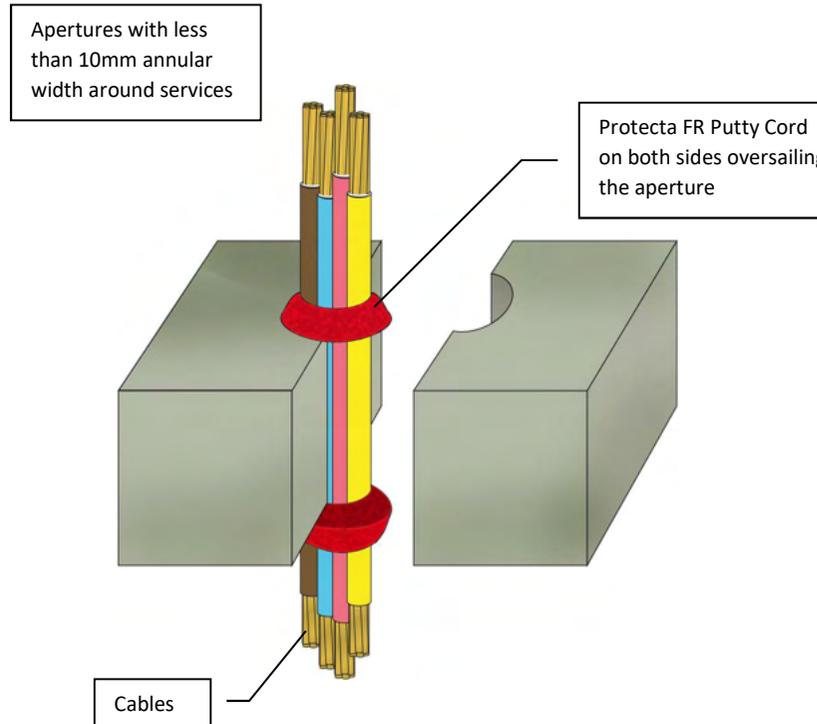
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Scale: NTS	Drawn by: K.B

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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.



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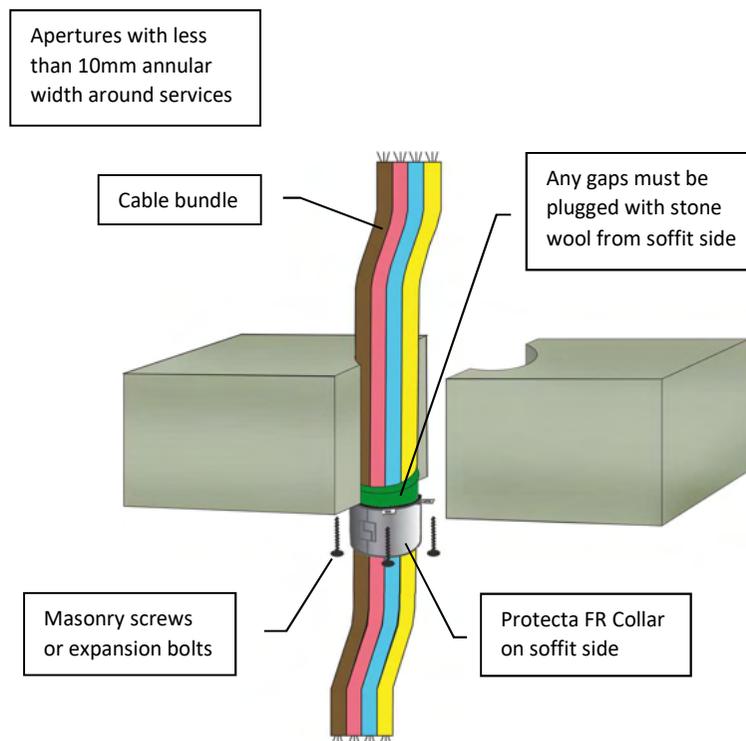
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Cables ≤ Ø 21mm in tied bundles ≤ Ø 50mm EI 240 & E 240	
 Protecta® Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB Tel: +44 (0) 148 4421036 Email: post.uk@polyseam.com	
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A4	30/8/21
Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m³

Fire & Sound classification

Cables $\leq \text{Ø} 21\text{mm}$, in a bundle $\leq \text{Ø}55\text{mm}$, with collars $\leq \text{Ø}55\text{mm}$ at $\geq 30\text{mm}$ height
EI 120 & E 120

Cables $\leq \text{Ø} 21\text{mm}$, in a bundle $\leq \text{Ø}100\text{mm}$, with collars $\leq \text{Ø}110\text{mm}$ at $\geq 50\text{mm}$ height
EI 90 & E 90

Cables $\leq \text{Ø} 21\text{mm}$, in a bundle $\leq \text{Ø}160\text{mm}$, with collars $\leq \text{Ø}160\text{mm}$ at $\geq 60\text{mm}$ height
EI 180 & E 180

Sound reduction (seal only) 58dB



Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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Email: post.uk@polyseam.com



ETA 21/0070

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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

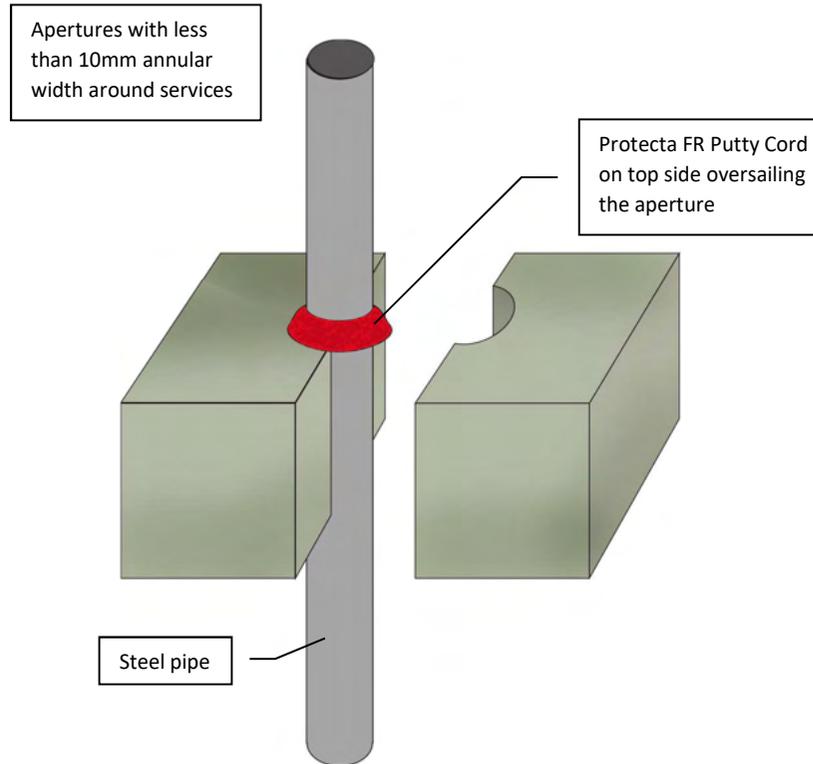
Signed and approved:

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 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 21/0041

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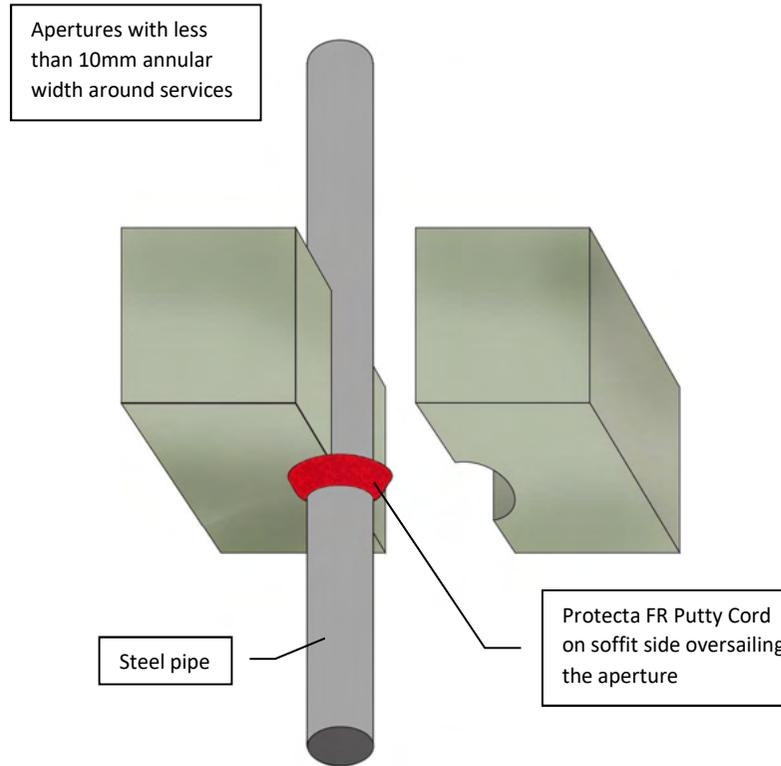
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid 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 ≤ Ø 22mm	EI 120 C/U & E 240
Steel pipe ≤ Ø 324mm	EI 15 C/U & E 240
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Sheet size:	Drawn date & no:
A4	30/8/21
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. 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 21/0041

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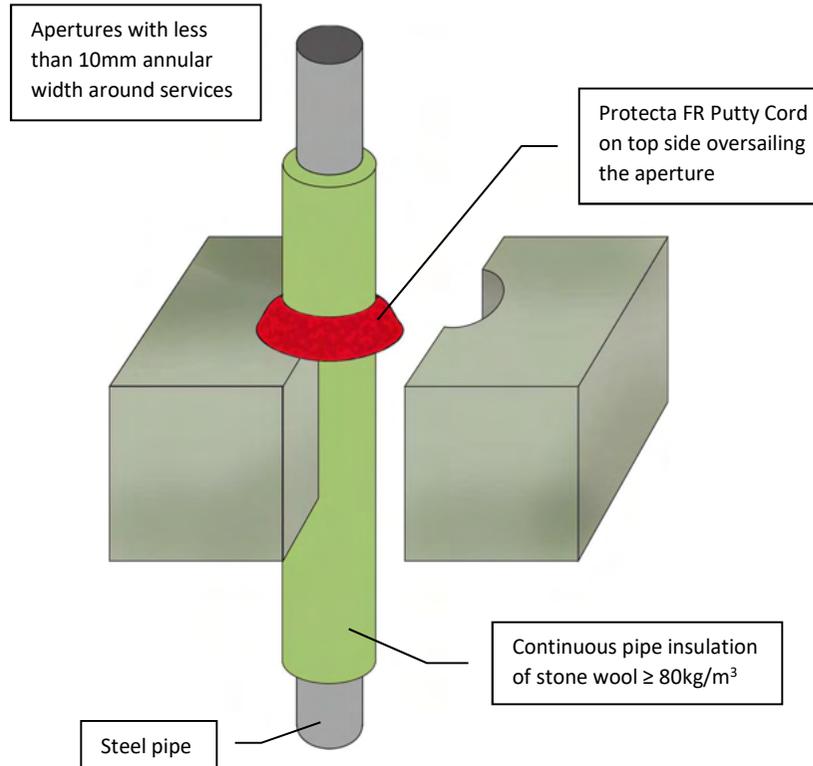
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid 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 ≤ Ø 30mm	
EI 45 C/U & E 120	
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Sheet size:	Drawn date & no:
A4	30/8/21
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 21/0041

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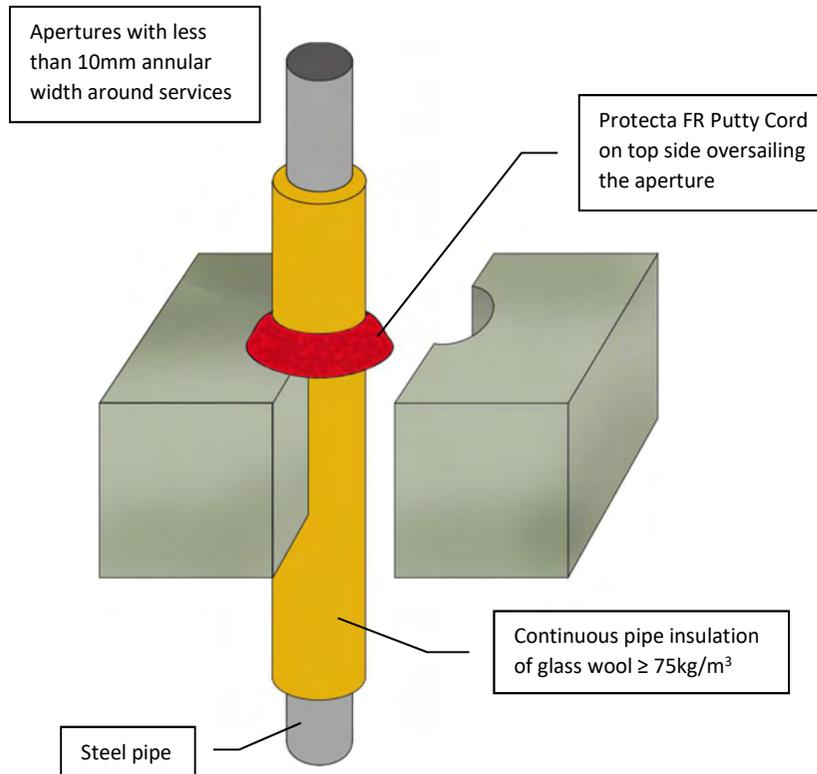
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid 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 ≤ 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	
 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	11/11/18
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 21/0041

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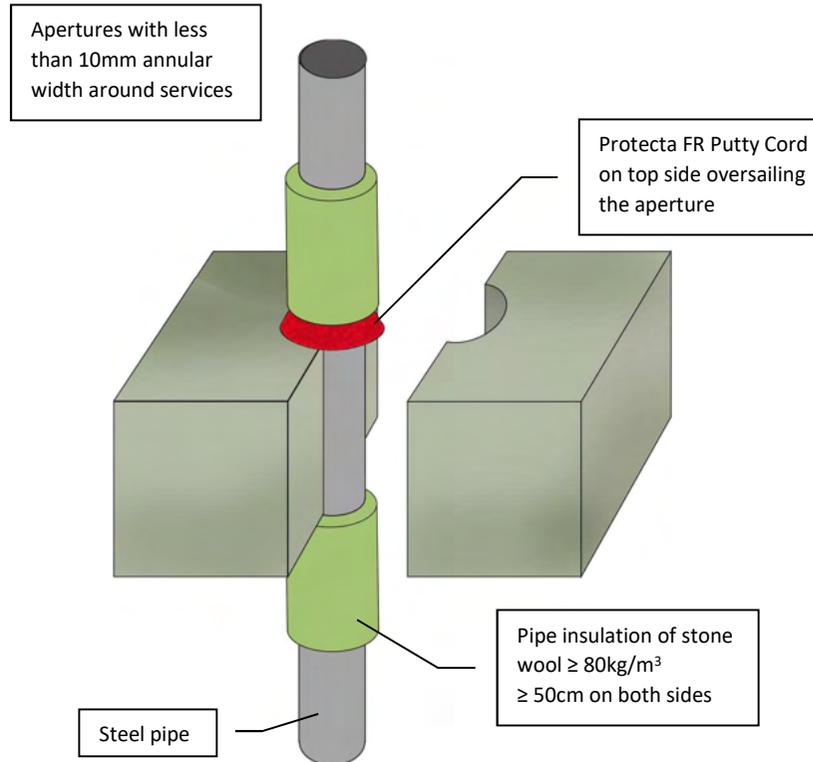
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Signed and approved:

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/m ³
Fire & Sound classification	
Steel pipe ≤ Ø12mm with 20mm thick pipe insulation EI 90 C/C & E 240	
Steel pipe ≤ Ø54mm with 20-40mm thick pipe insulation EI 90 C/C & E 90	
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Sheet size:	Drawn date & no:
A4	30/8/21
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.



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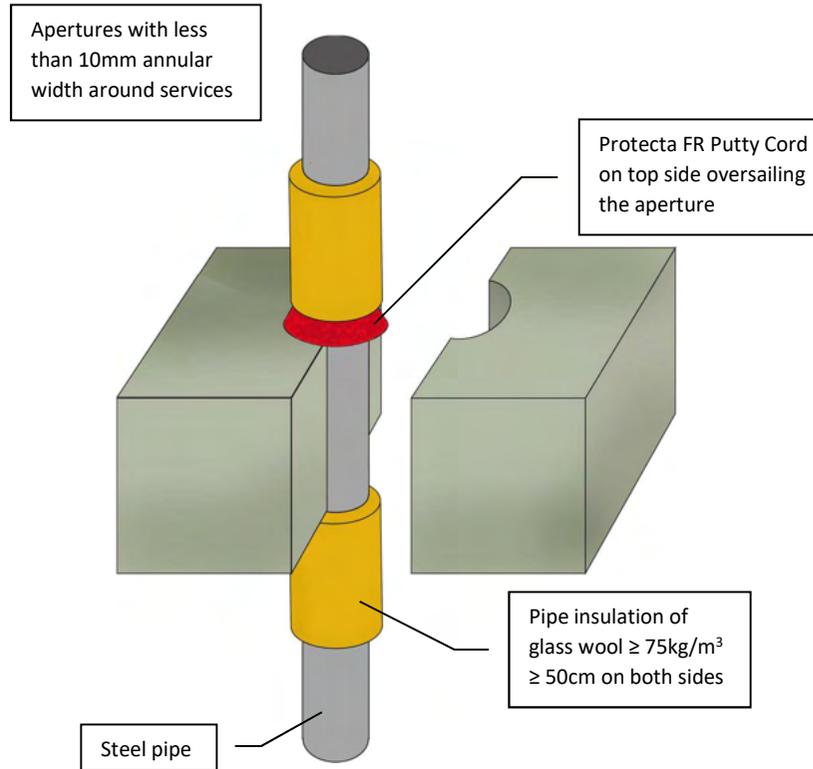
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid 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 ≤ 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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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.



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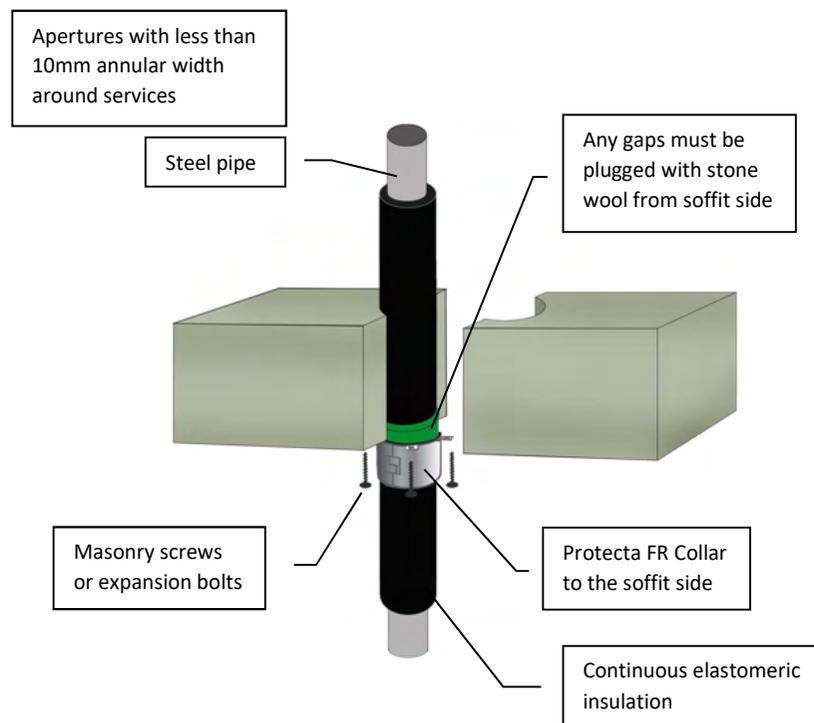
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of steel pipes in rigid 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 ≥ 20mm thick pipe insulation EI 240 C/C & E 240	
Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation EI 120 C/C & E 180	
 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	30/8/21
Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}42\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}63\text{mm}$ FR Collar at 50mm height EI 120 C/C & E 120

Steel pipe $\leq \text{Ø}42\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}160\text{mm}$ at 60mm height EI 60 C/C & E 60

Steel pipe $\leq \text{Ø}54\text{mm}$ with 19mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height EI 60 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



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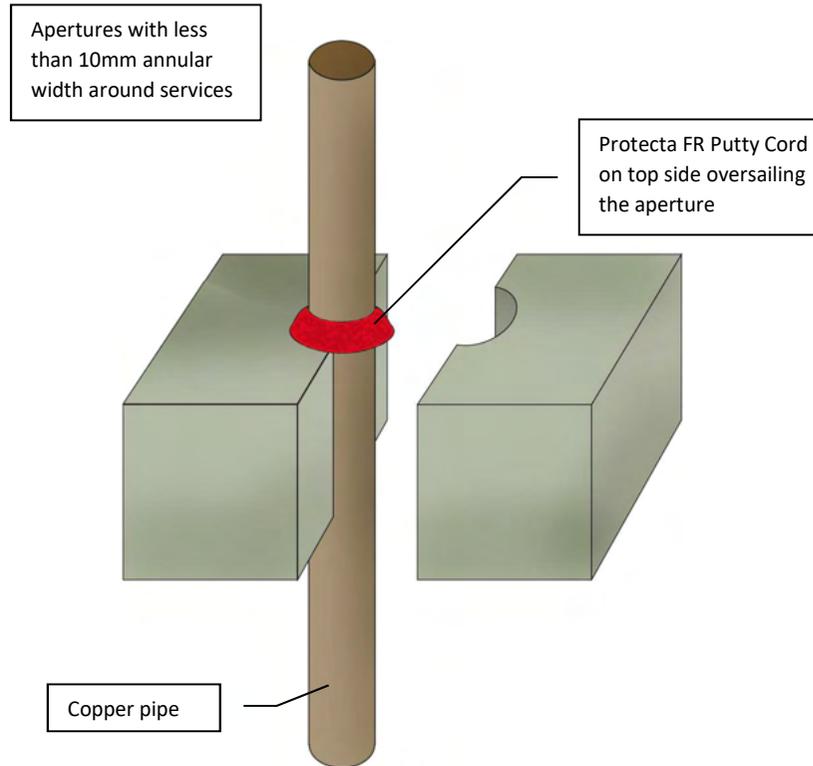
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

Installation Instructions

1. Before 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 21/0041

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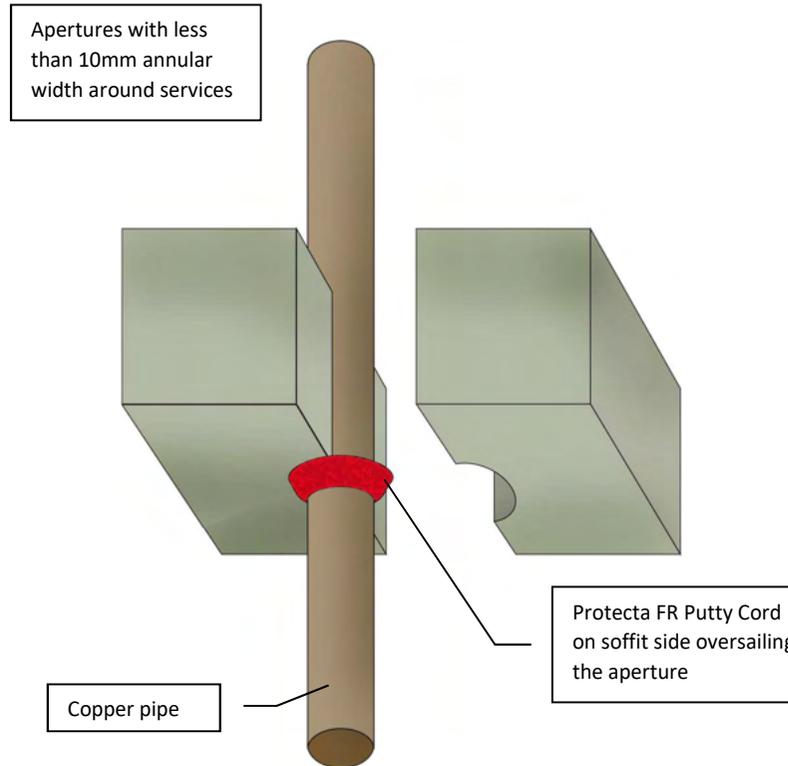
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
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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A4	30/8/21
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. 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.



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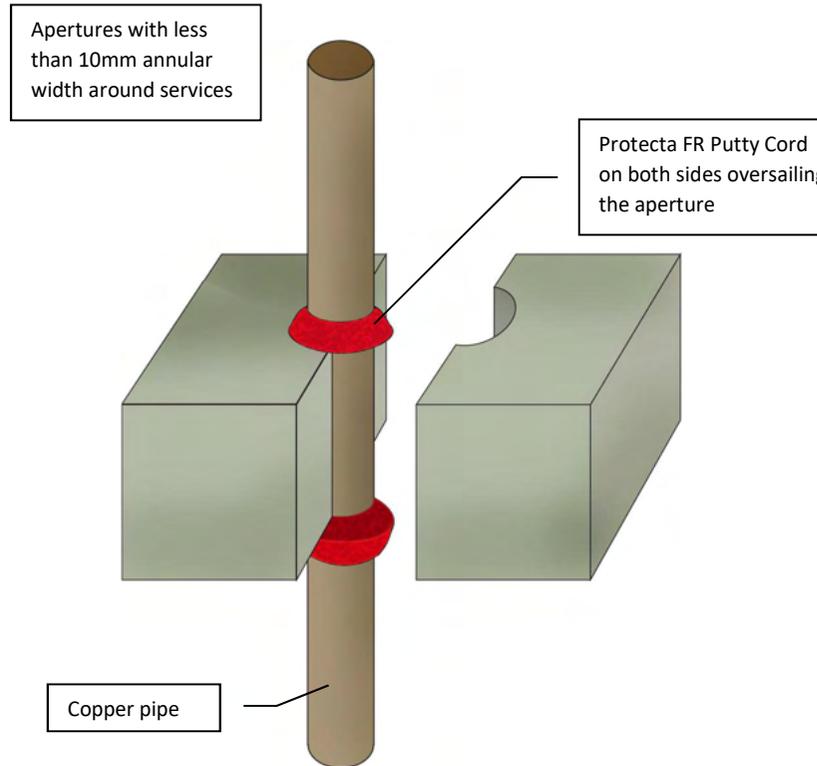
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
Fire & Sound classification	
Copper pipe ≤ Ø 12mm	
EI 30 C/C & E 120	
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Sheet size:	Drawn date & no:
A4	30/8/21
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. 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 21/0041

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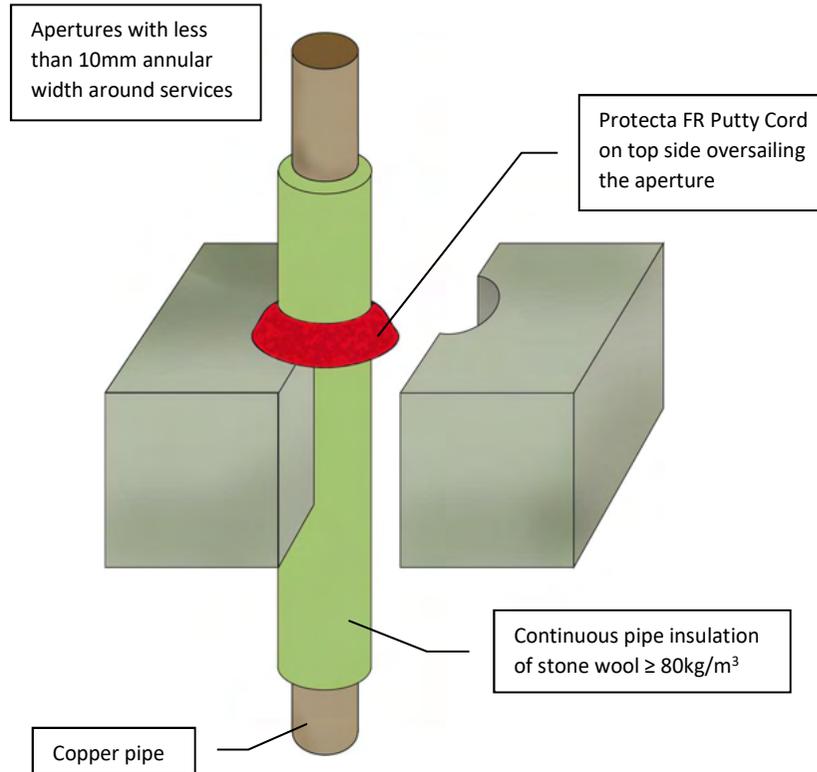
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
Fire & Sound classification	
Copper pipe ≤ Ø 10mm EI 180 C/C & E 240	
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Sheet size:	Drawn date & no:
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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 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.



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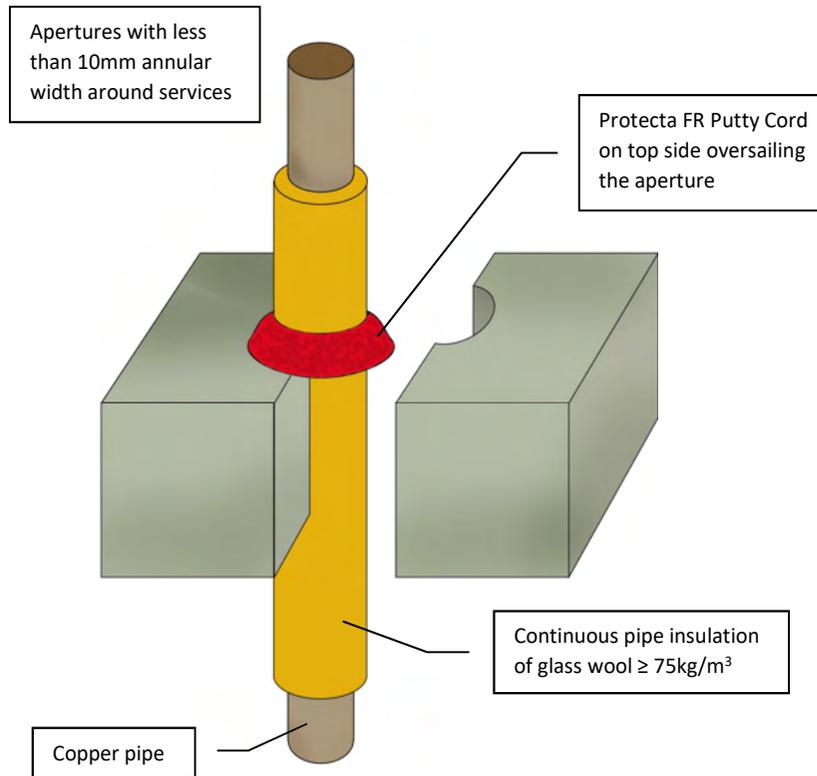
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
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	
 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	11/11/18
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.



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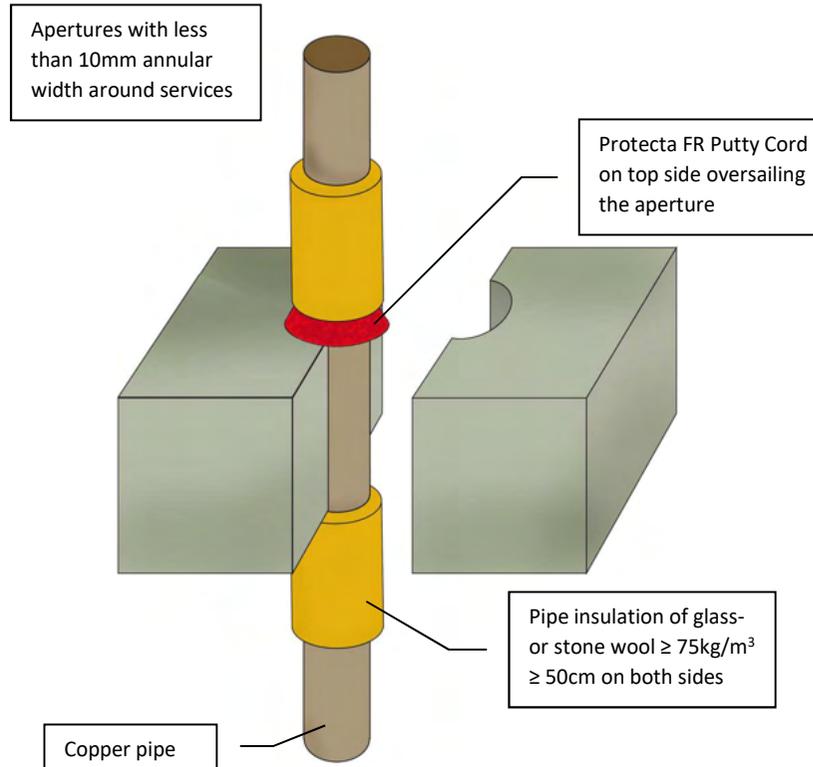
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
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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Scale: NTS	Drawn by: K.B

Installation Instructions

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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/m ³

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

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



ETA 21/0041

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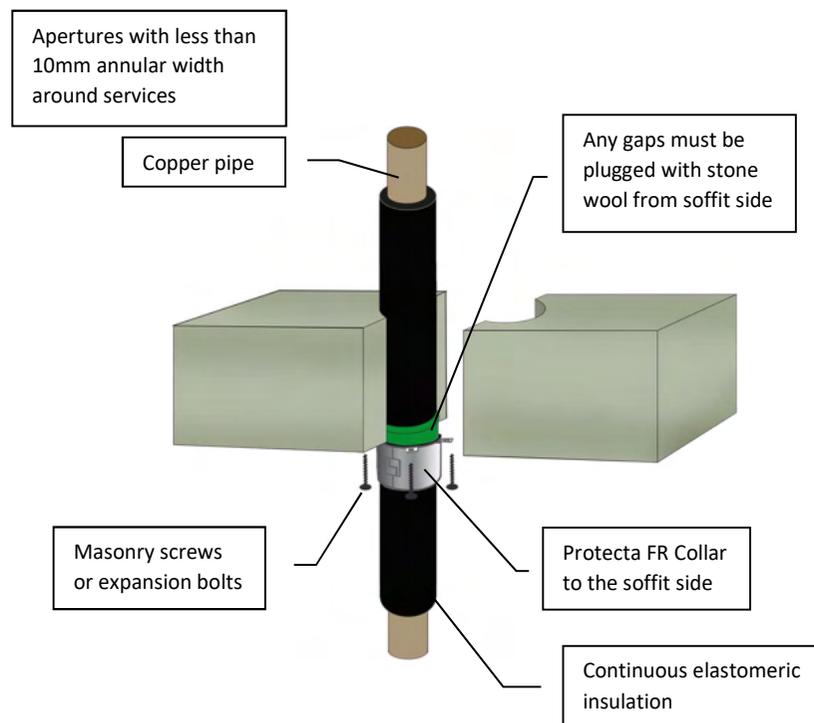
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}42\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}63\text{mm}$ FR Collar at 50mm height EI 120 C/C & E 120

Copper pipe $\leq \text{Ø}42\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}160\text{mm}$ at 60mm height EI 60 C/C & E 60

Copper pipe $\leq \text{Ø}54\text{mm}$ with 19mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height EI 60 C/C & E 120

Sound reduction (seal only) Rw 58dB

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ETA 21/0070

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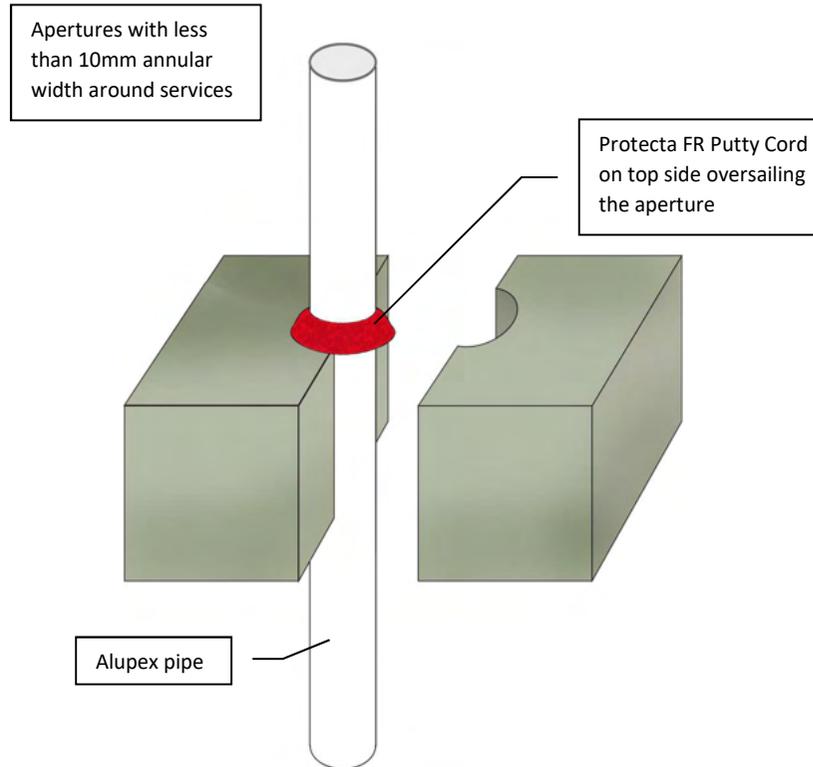
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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Scale: NTS	Drawn by: K.B

Installation Instructions

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 21/0041

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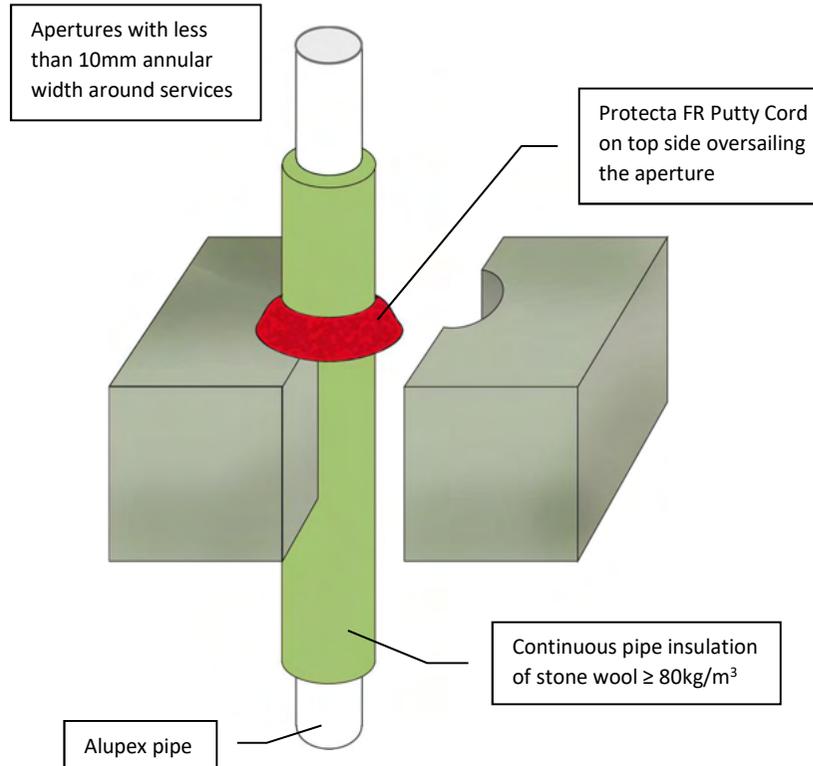
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid 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 ≤ Ø 20mm	EI 240 C/C & E 240
Alupex pipe ≤ Ø 75mm	EI 30 C/C & E 45
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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.



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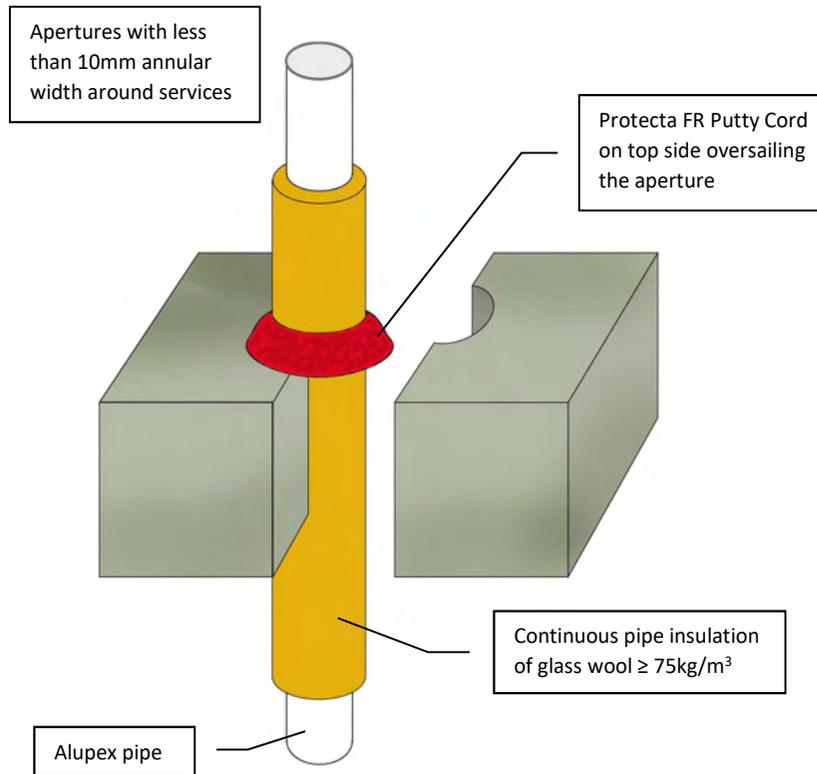
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid 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 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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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.



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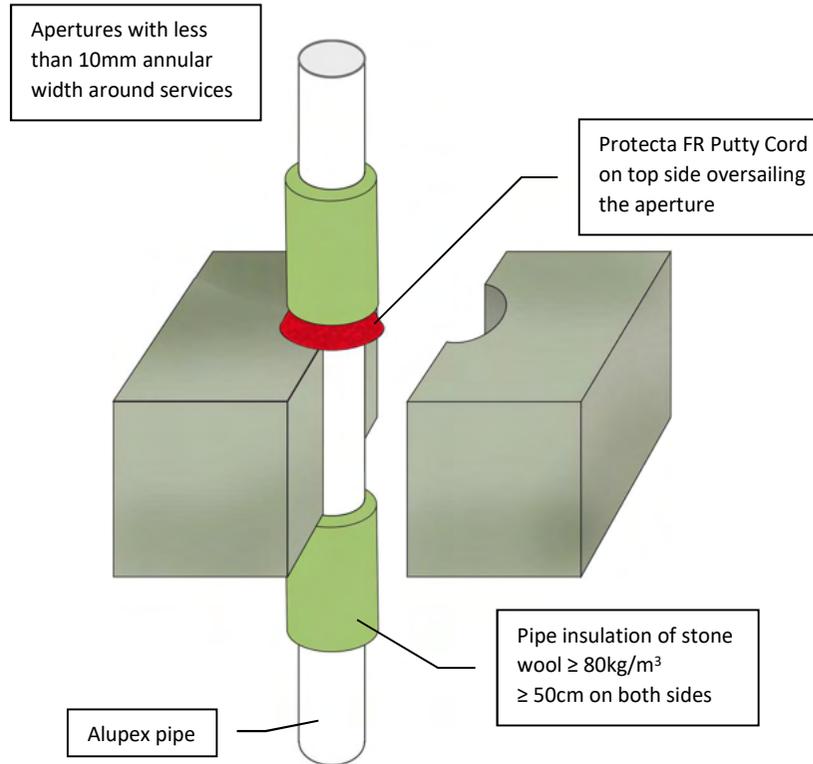
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid 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 20-50mm thick continuous pipe insulation EI 120 C/C & E 120	
	
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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 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.



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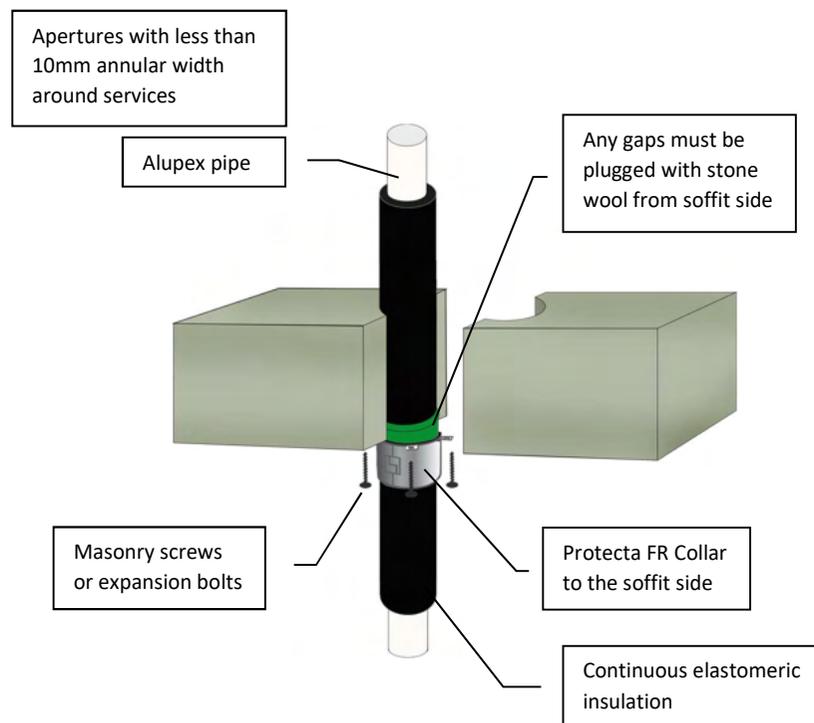
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of alupex pipes in rigid 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 ≥ 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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NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m³

Fire & Sound classification

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height
EI 120 C/C & E 120

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}200\text{mm}$ at 60mm height
EI 90 C/C & E 120

Sound reduction (seal only) Rw 58dB



ETA 21/0070

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Signed and approved:



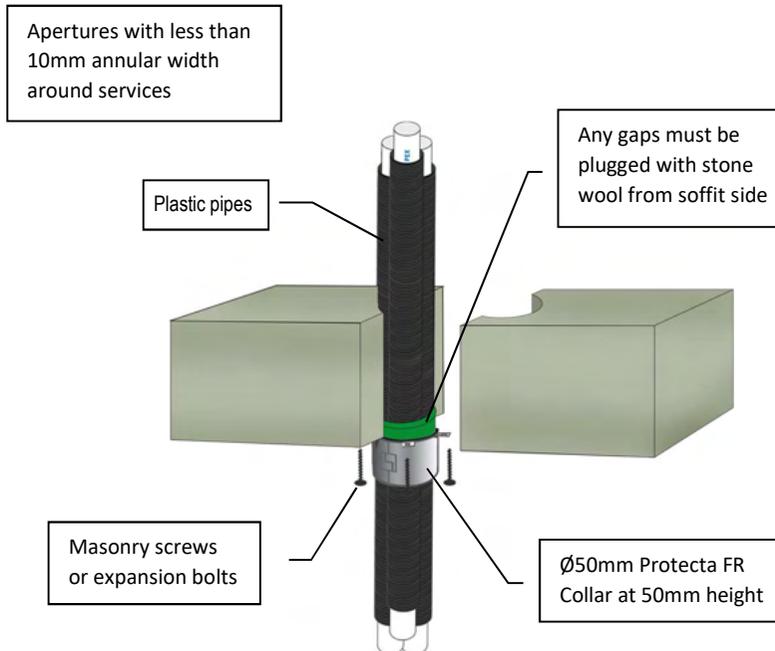
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 30/8/21

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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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Client:

Job Title:

Products Protecta FR Collar
Stonewool

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/m³

Fire & Sound classification

PEX pipe-in-pipes $\leq \text{Ø}25\text{mm}$, single, or in a bundle $\leq \text{Ø}50\text{mm}$ EI 90 C/C & E 90

Sound reduction (seal only) Rw 58dB

Protecta[®]

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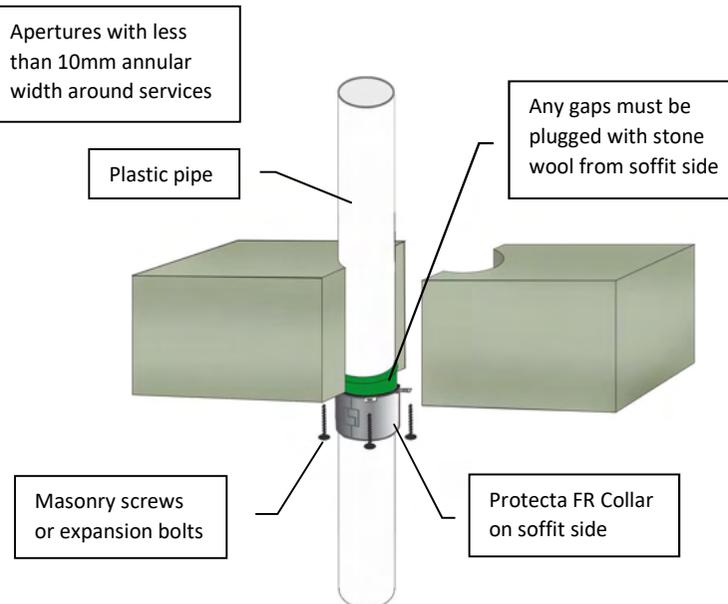
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Installation Instructions

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 with $\geq \varnothing 4 \times 40$ mm 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
Ø315x18.7mm PE, ABS & SAN+PVC	75mm	EI 240 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
≤ 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



ETA 21/0070

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



Protecta®

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NTS	K.B

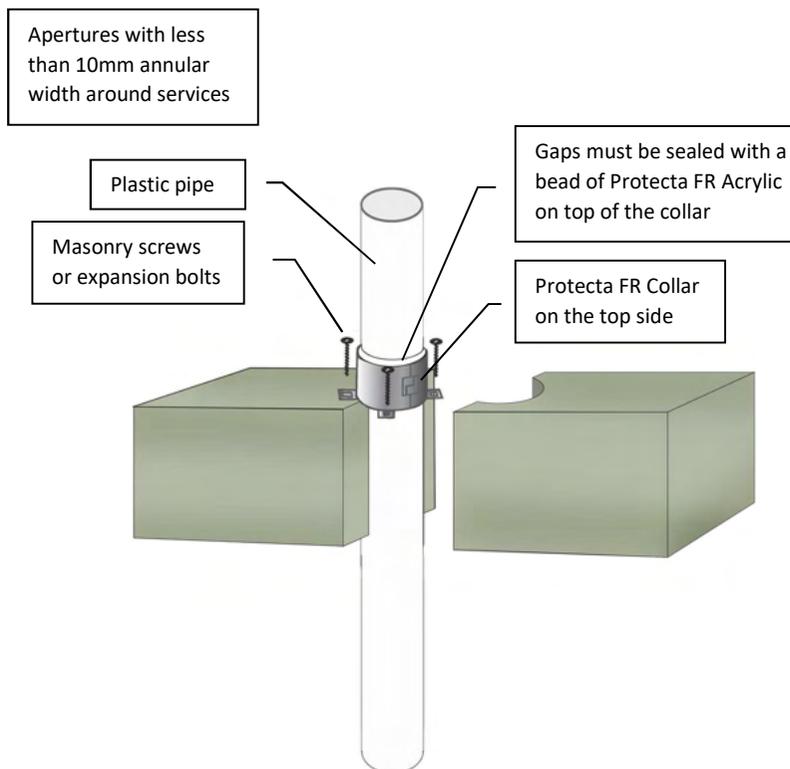
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Signed and approved:

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 $\geq \text{Ø}4 \times 40\text{mm}$ 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
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	50mm	EI 240 C/C, EI 240 U/C
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	50mm	EI 120 C/C, EI 120 U/C
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 180 C/C, EI 180 U/C (E 240)
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C (E 240)
$\leq \text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}50\text{mm}$ PP	50mm	EI 180 C/C, EI 180 U/C (E 240)
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 90 C/C, EI 90 U/C (E 180)
$\leq \text{Ø}160\text{mm}$ PP	60mm	EI 60 C/C, EI 60 U/C (E 240)

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/m³

Fire & Sound classification

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

Sound reduction (seal only)

58dB



ETA 21/0070

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Signed and approved:

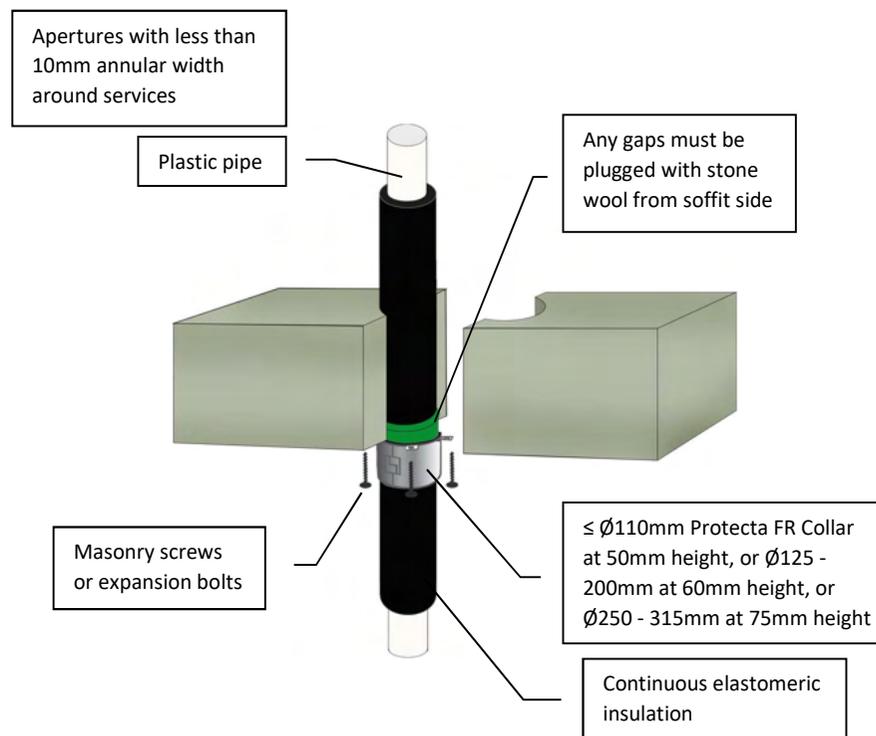
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Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 27/7/19

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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 9mm thick pipe insulation
EI 180 C/C & E 180

PE pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 10 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 9.1mm and 9mm thick pipe insulation
EI 120 C/C & E 180

PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 9.1mm and 10 – 50mm thick pipe insulation
EI 60 C/C & E 60

Sound reduction (seal only) Rw 58dB



ETA 21/0070

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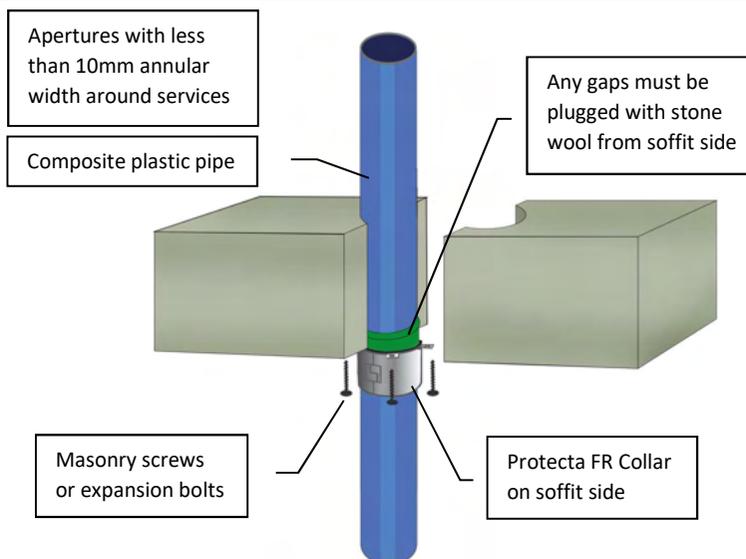
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Scale: **NTS** Drawn by: **K.B**

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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
$\leq \text{Ø}32\text{mm}$ Aquatherm Green SDR9	30mm	EI 240 C/C
$\leq \text{Ø}50\text{mm}$ Aquatherm Green SDR9	50mm	EI 240 C/C
$\leq \text{Ø}110\text{mm}$ Aquatherm Green SDR9	50mm	EI 120 C/C
$\leq \text{Ø}50\text{mm}$ BluePower	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\leq \text{Ø}110\text{mm}$ BluePower	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U
$\text{Ø}125\text{mm}$ BluePower	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U
$\text{Ø}160\text{mm}$ BluePower	60mm	EI 240 C/C, EI 240 U/C, EI 240 C/U
$\leq \text{Ø}50\text{mm}$ Geberit Silent-PP	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ Geberit Silent-PP	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U
$\leq \text{Ø}50\text{mm}$ Polo-Kal NG pipes	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ Polo-Kal NG pipes	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U
$\text{Ø}125\text{mm}$ Polo-Kal NG pipes	60mm	EI 240 C/C, EI 240 U/C
$\text{Ø}160\text{mm}$ Polo-Kal NG pipes	60mm	EI 240 C/C, EI 240 U/C (E 240 C/U)
$\leq \text{Ø}50\text{mm}$ Rehau Raupiano Plus	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ Rehau Raupiano Plus	50mm	EI 120 C/C, EI 120 U/C, EI 120 C/U
$\text{Ø}125\text{mm}$ Rehau Raupiano Plus	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U
$\text{Ø}160\text{mm}$ Rehau Raupiano Plus	60mm	EI 240 C/C, EI 240 U/C (E 240 C/U)
$\text{Ø} 50\text{mm}$ Uponor Decibel	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\leq \text{Ø}110\text{mm}$ Uponor Decibel	50mm	EI 120 C/C, EI 120 U/C, EI 120 C/U
$\leq \text{Ø}50\text{mm}$ Wavin SiTech	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ Wavin SiTech	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U



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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



Protecta®

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Huddersfield, West Yorkshire, HD1 6SB

Tel: +44 (0) 148 4421036

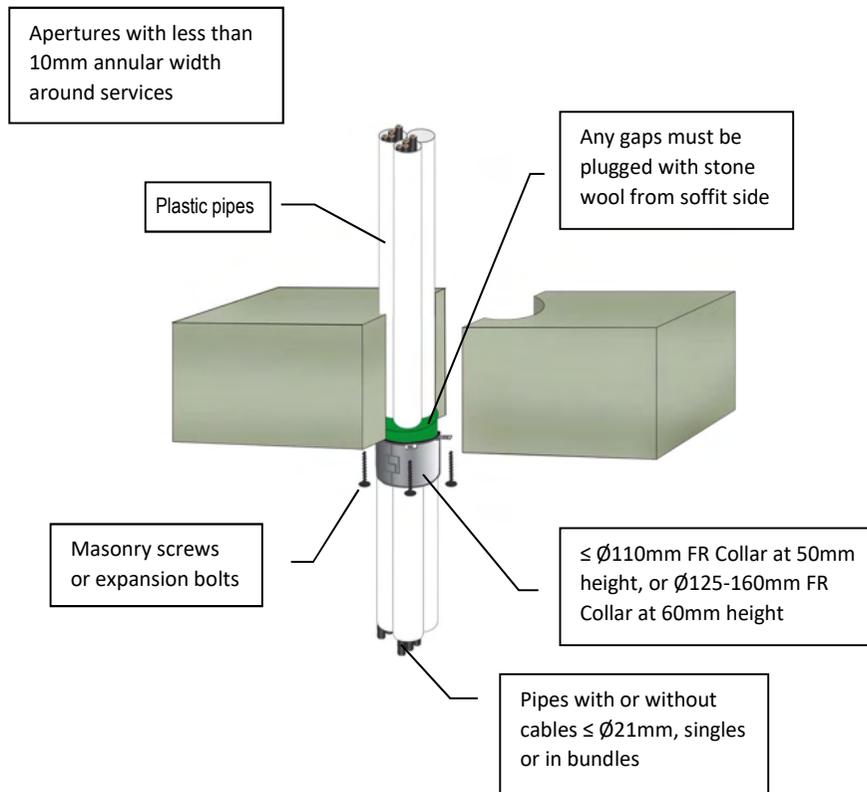
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	30/8/21

Scale:	Drawn by:
NTS	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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.0 – 2.4mm
EI 90 C/U & E 90

PE & ABS pipes $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 2.0 – 3.0mm
EI 90 C/U & E 90

PP pipes $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 4.4mm
EI 90 C/U & E 90

Sound reduction (seal only) Rw 58dB

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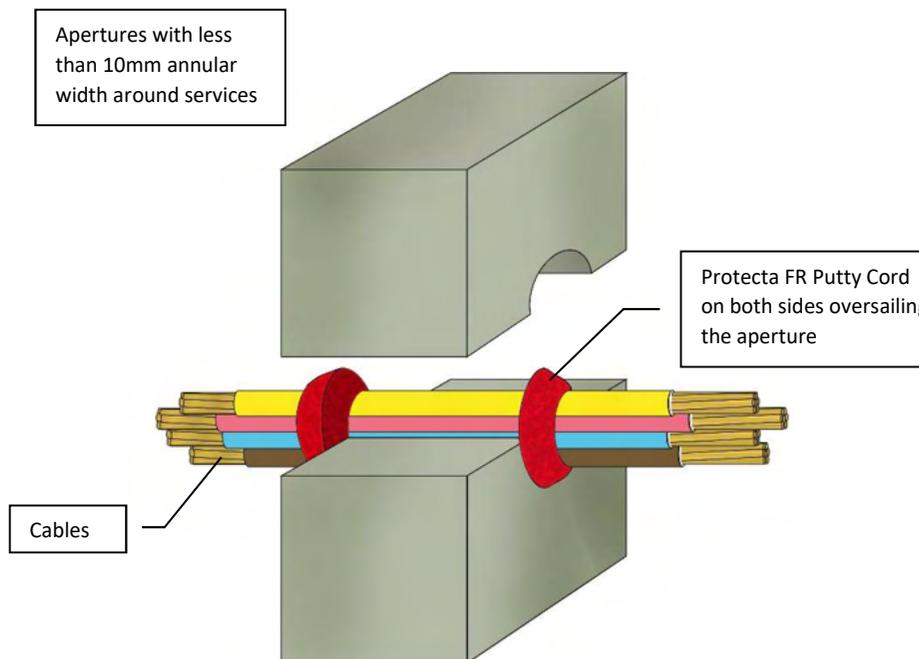
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
Cables $\leq \text{Ø } 21\text{mm}$, single or in a bundle $\leq \text{Ø } 50\text{mm}$	EI 120 & E 120
Cables $\leq \text{Ø } 80\text{mm}$, single or in a bundle $\leq \text{Ø } 50\text{mm}$	EI 60 & E 60



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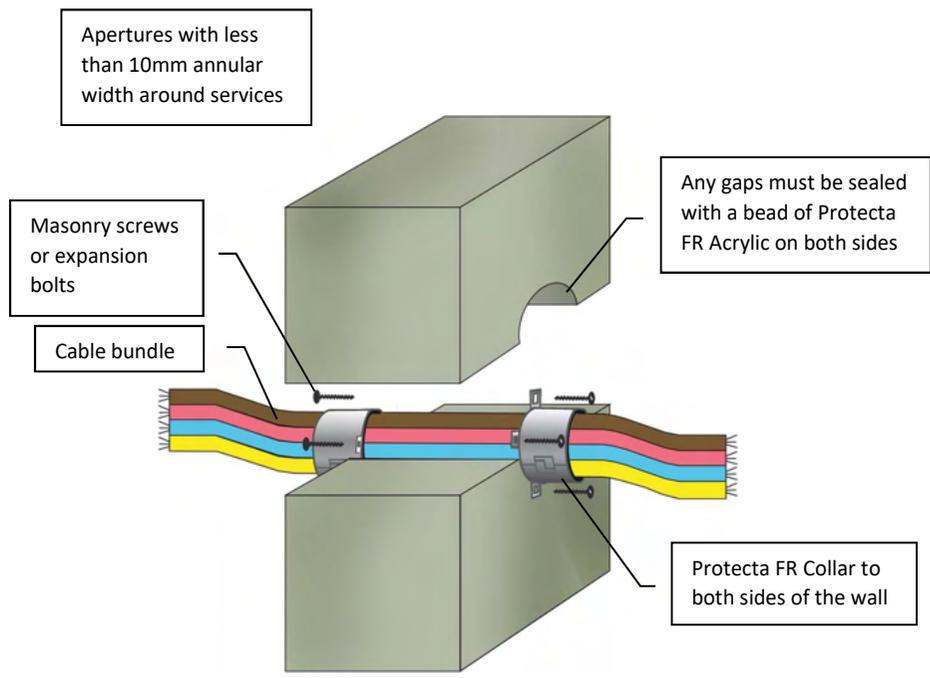
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cables $\leq \text{Ø} 21\text{mm}$, in a bundle $\leq \text{Ø}110\text{mm}$, with collars $\leq \text{Ø}110\text{mm}$ at $\geq 30\text{mm}$ height
EI 60 & E 120

Cables $\leq \text{Ø} 80\text{mm}$, in a bundle $\leq \text{Ø}110\text{mm}$, with collars $\leq \text{Ø}110\text{mm}$ at $\geq 50\text{mm}$ height
EI 60 & E 120

Cables $\leq \text{Ø} 80\text{mm}$, in a bundle $\leq \text{Ø}160\text{mm}$, with collars $\leq \text{Ø}160\text{mm}$ at $\geq 60\text{mm}$ height
EI 60 & E 120

Sound reduction (seal only) 58dB



ETA 21/0070

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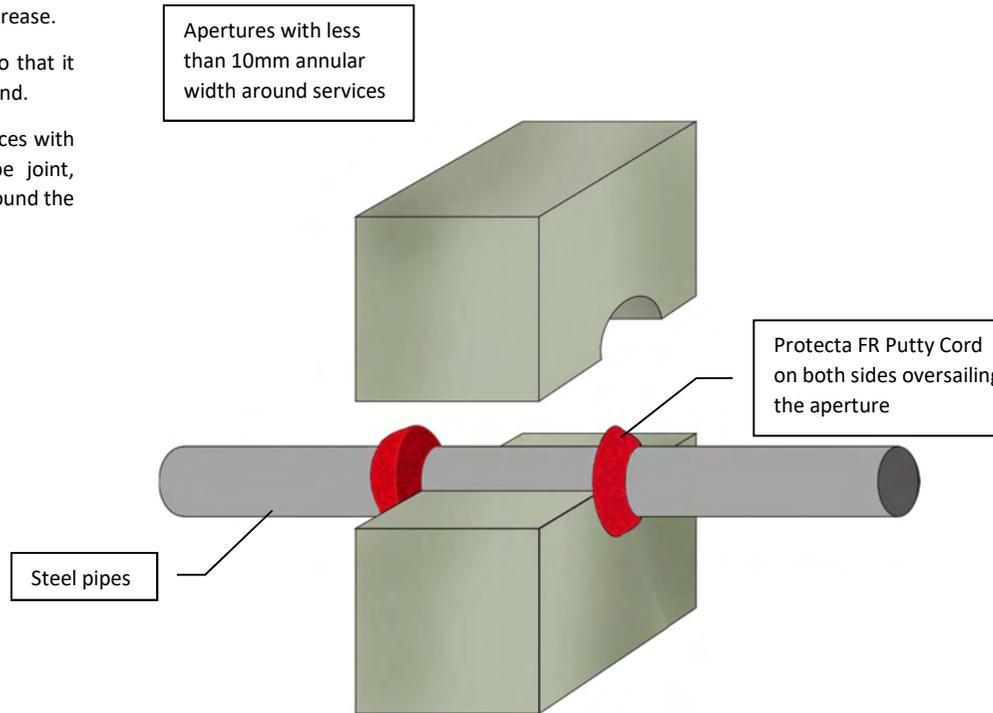
Signed and approved:

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.



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 ≥ 650 kg/m ³

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

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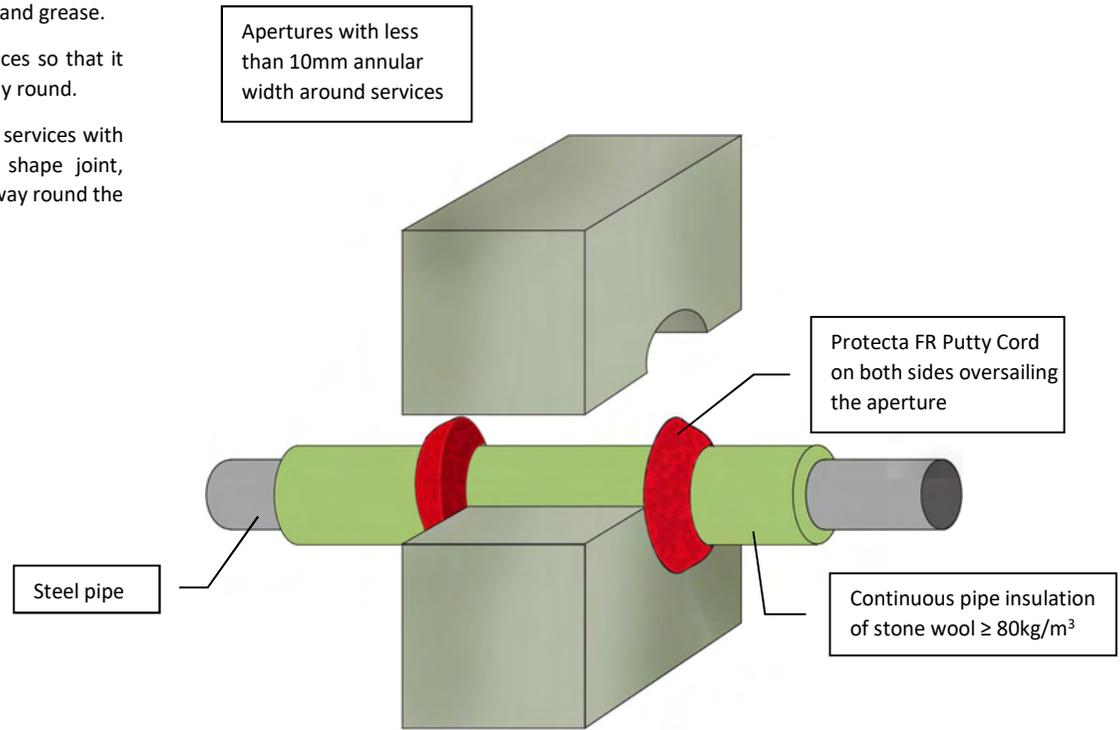
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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Scale: NTS	Drawn by: K.B

Installation Instructions

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.



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

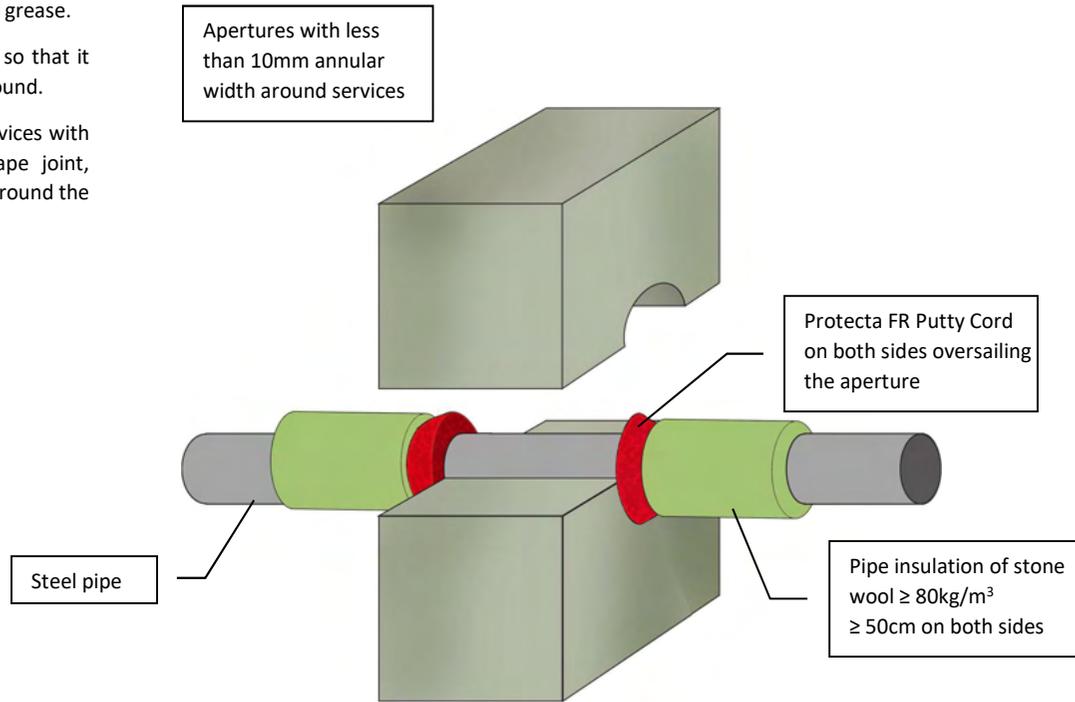
Fire & Sound classification	
Steel pipe ≤ Ø40mm with 20mm thick pipe insulation	EI 120 C/U & E 120
Steel pipe ≤ Ø54mm with 20mm thick pipe insulation	EI 120 C/C & E 240
Steel pipe ≤ Ø324mm with 30-80mm thick pipe insulation	EI 180 C/U & E 240

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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.



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 ≥ 650 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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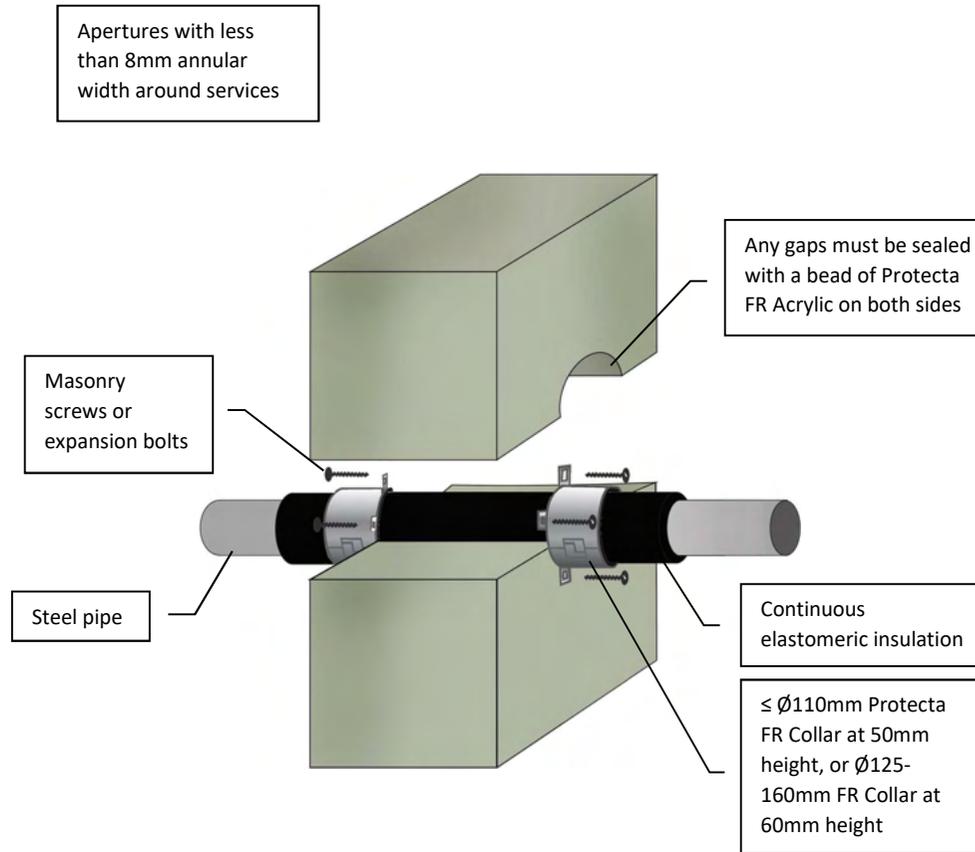
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Sheet size:	Drawn date & no:
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before fitting the collars ensure that any gaps between the pipe 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}54\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 58 dB

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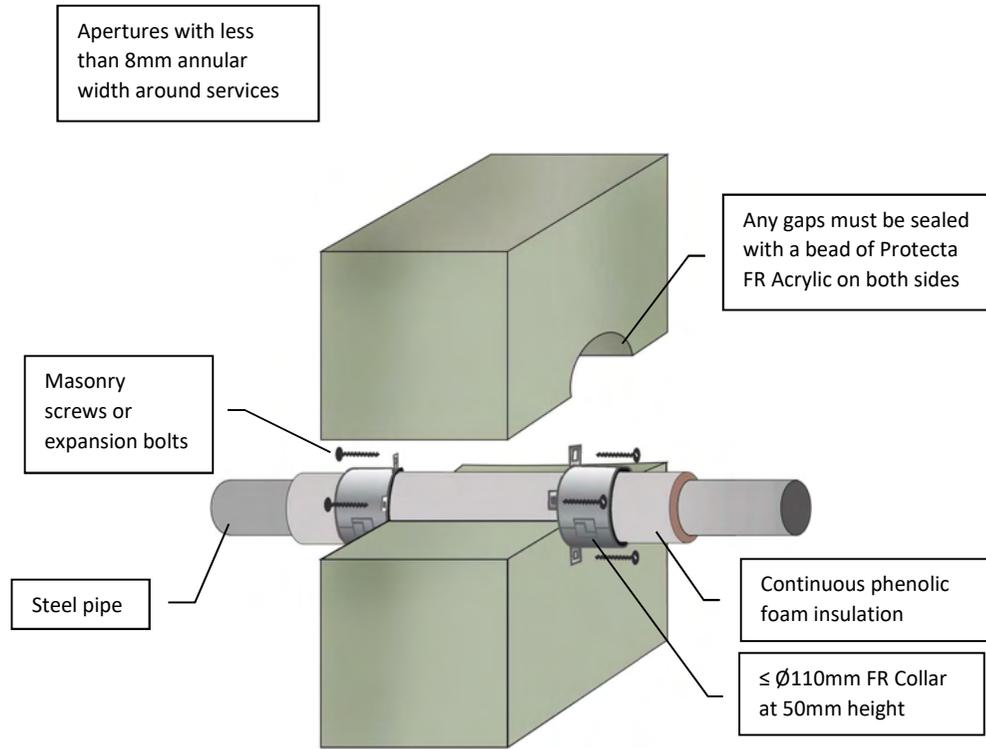
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Sheet size: **A4** Drawn date & no: 30/8/21

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}54\text{mm}$ with 25mm thick pipe insulation
EI 60 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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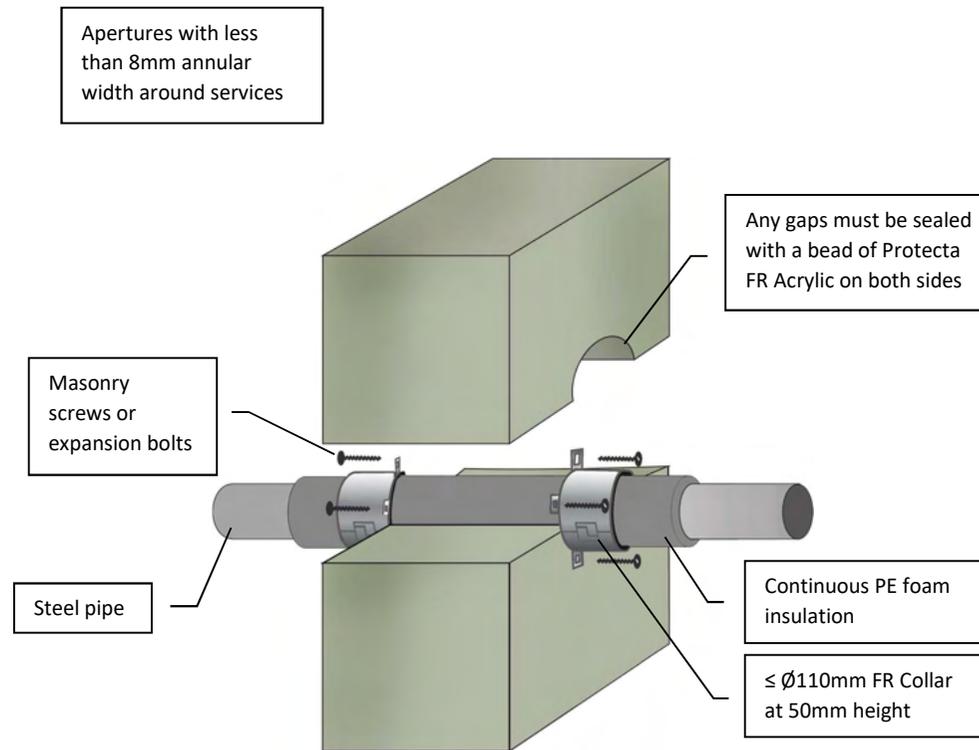
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Scale: **NTS** Drawn by: K.B

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}54\text{mm}$ with 20mm thick pipe insulation
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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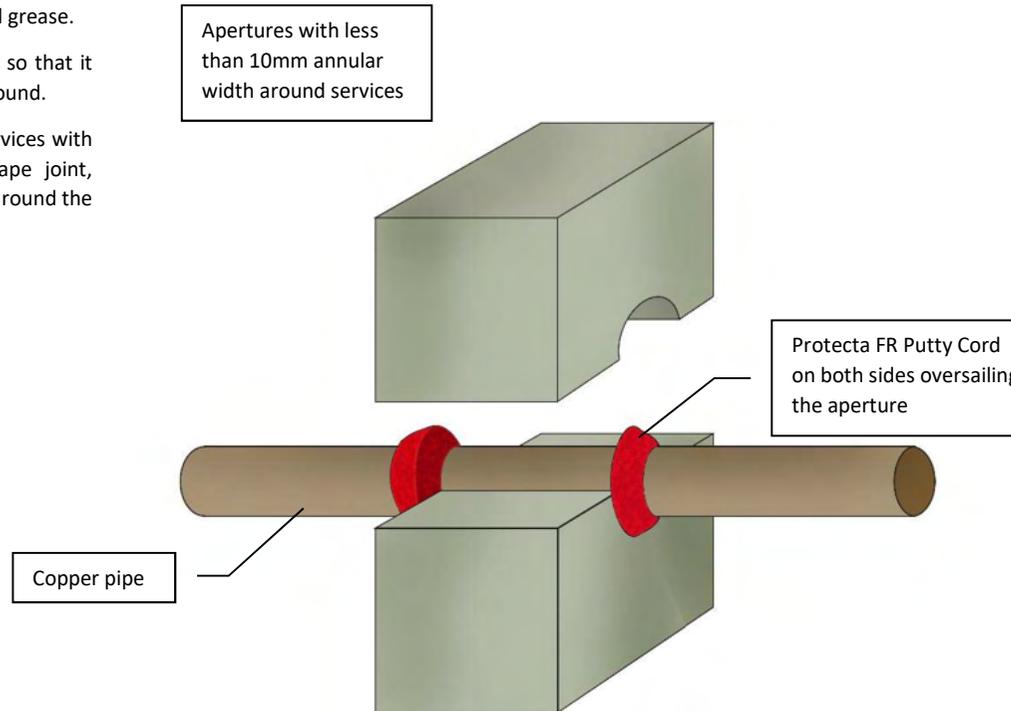
Signed and approved:

Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before 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.



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 ≥ 650 kg/m ³

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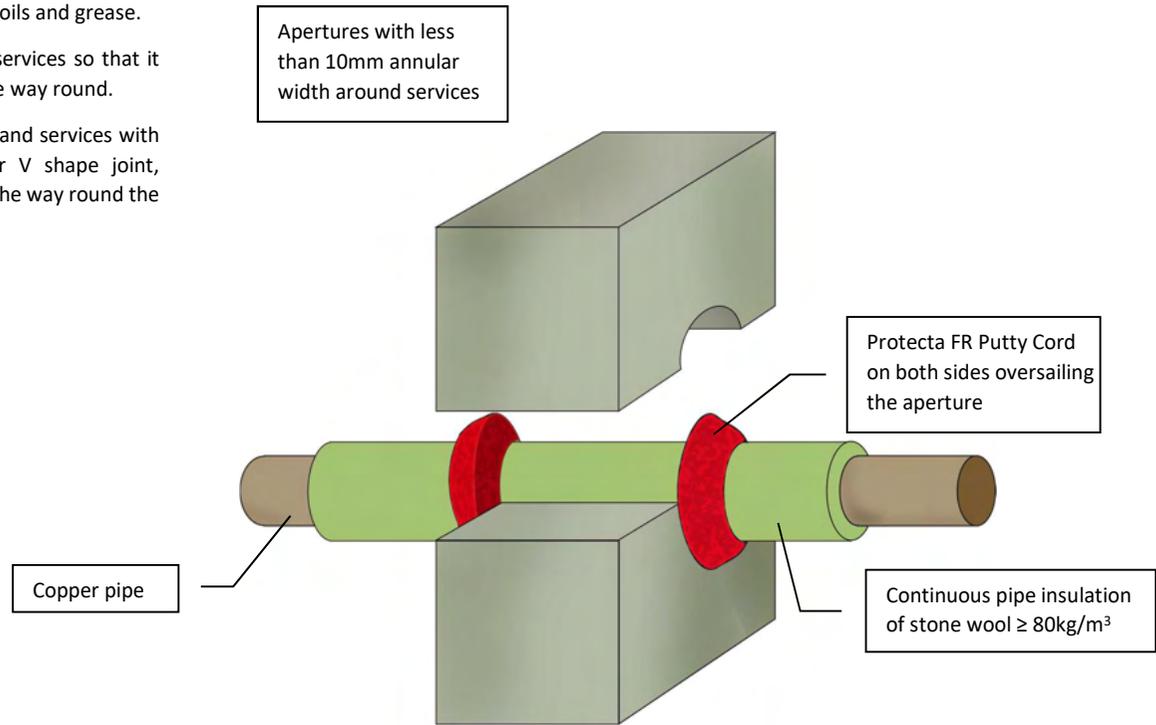
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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 21/0041

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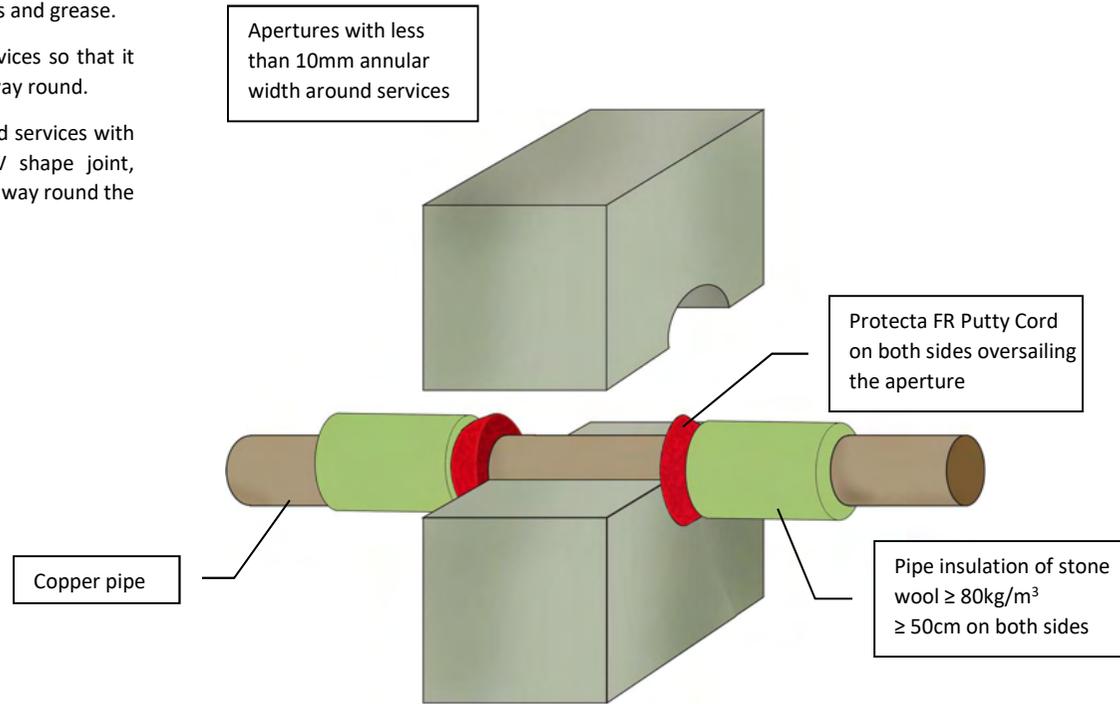
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m ³
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	
 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	30/8/21
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 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.



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 ≥ 650 kg/m ³

Fire & Sound classification	Copper pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation EI 60 C/C & E 90 C/C
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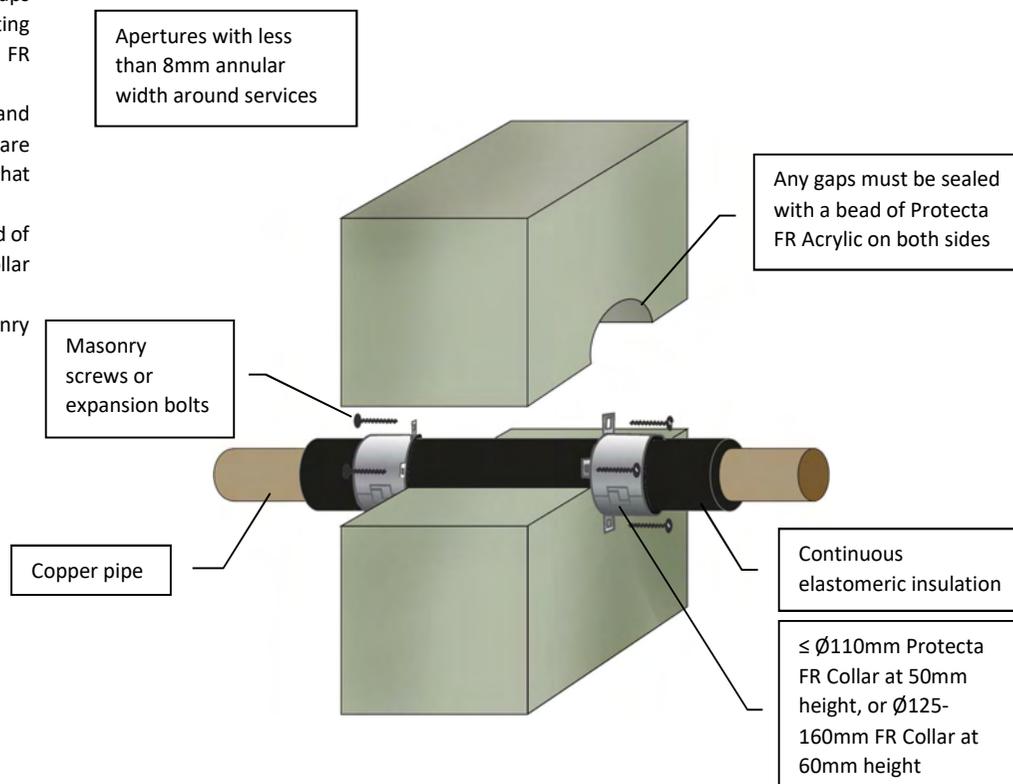
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 29/5/18
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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
Copper pipe $\leq \text{Ø}54\text{mm}$ with 9 – 50mm thick pipe insulation	EI 60 C/C & E 90
Sound reduction (seal only)	Rw 58 dB

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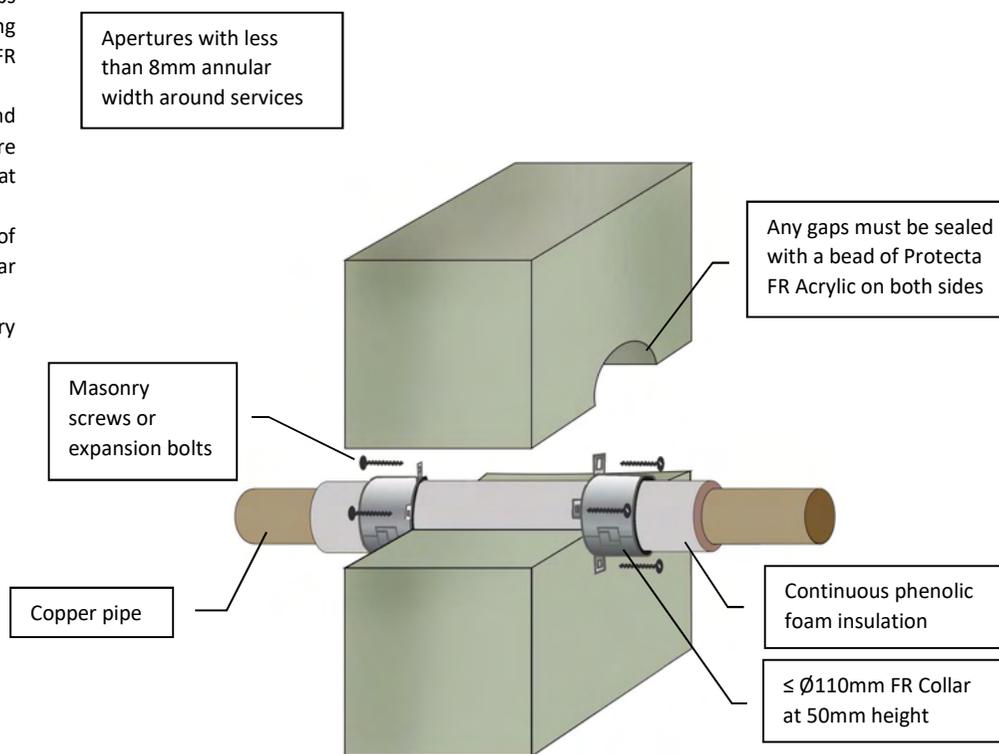
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}54\text{mm}$ with 25mm thick pipe insulation
EI 60 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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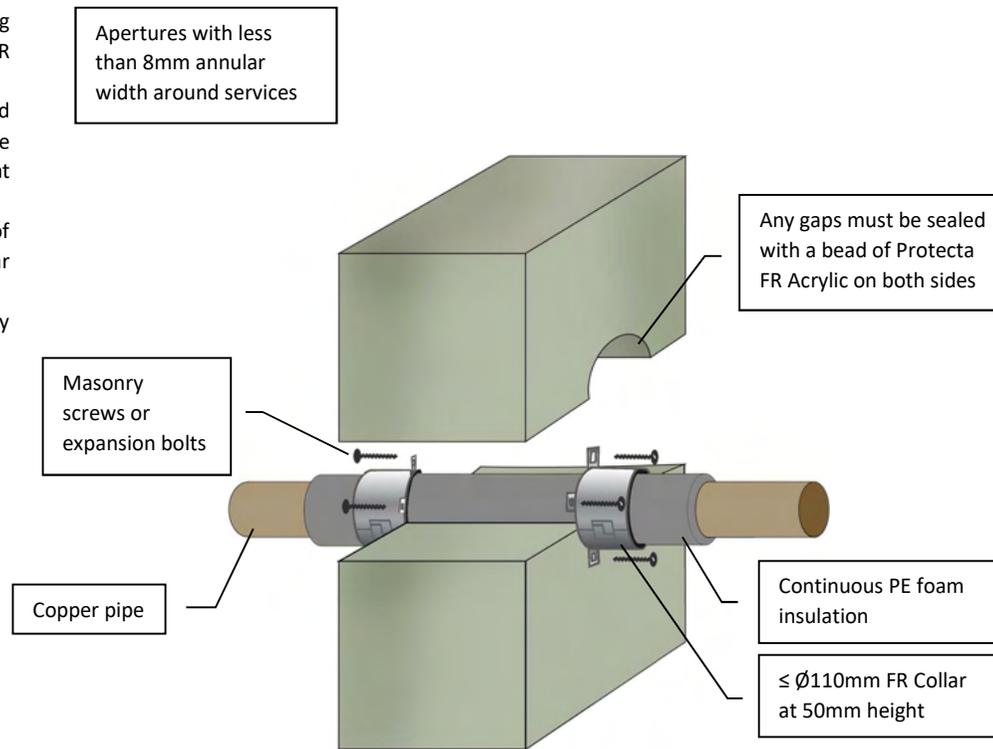
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Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before fitting the collars ensure that any gaps between the 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}54\text{mm}$ with 20mm thick pipe insulation
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 58 dB



ETA 21/0070



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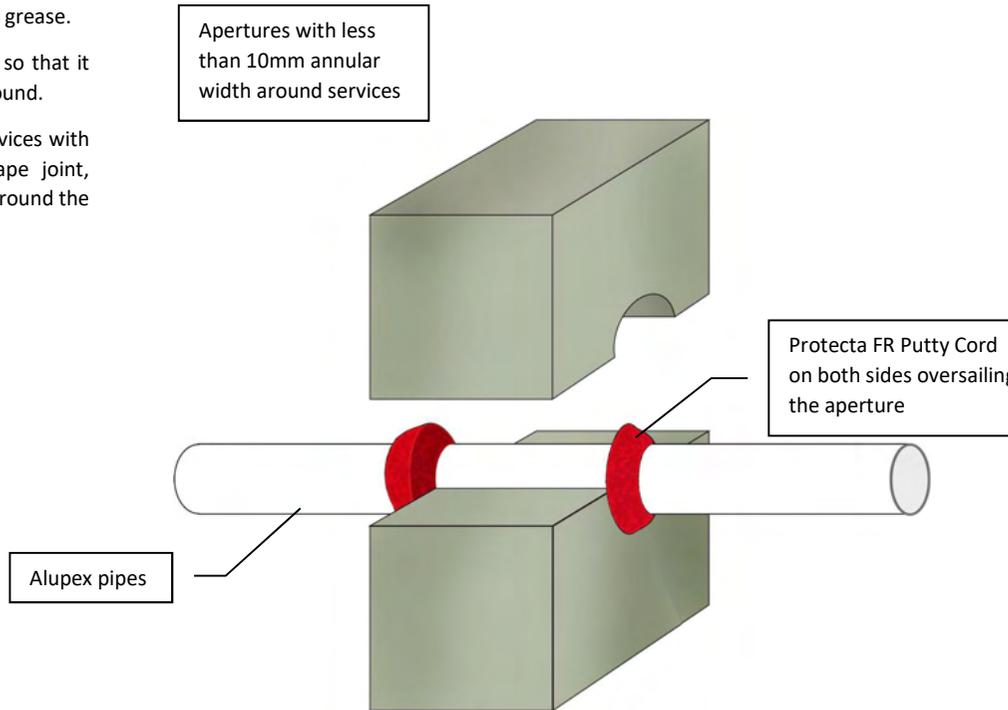
Signed and approved:

Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before 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.



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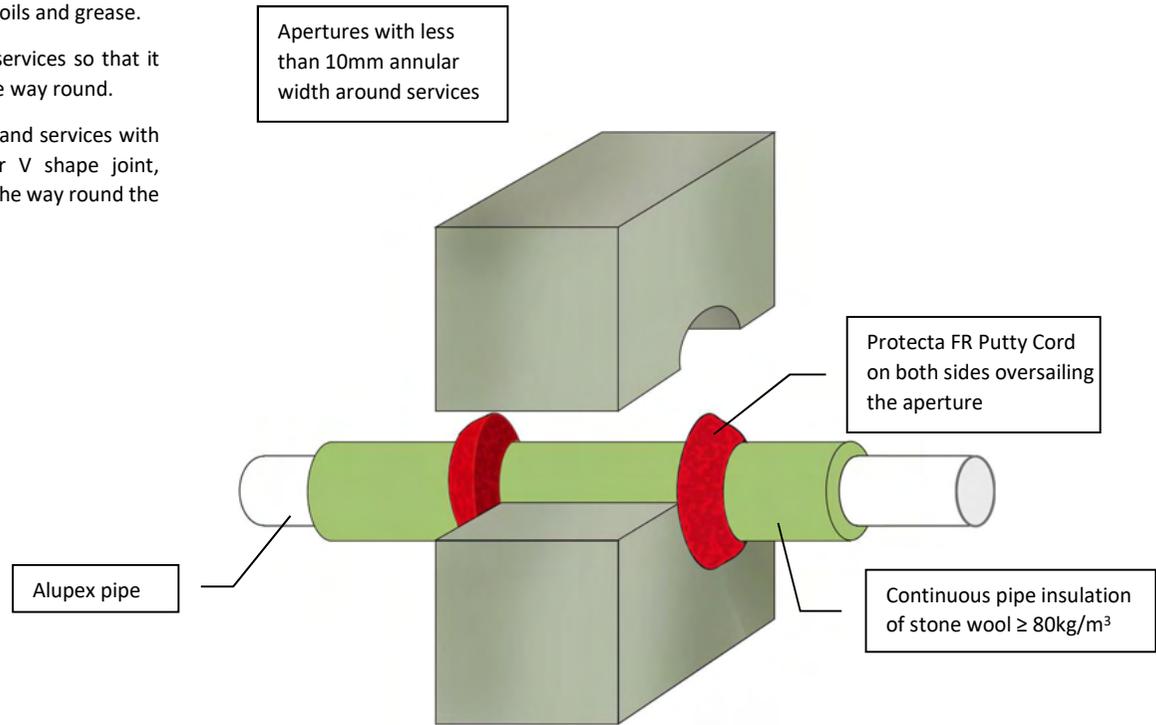
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 ≥ 650 kg/m ³
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
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A4	30/8/21
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 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.



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/m ³

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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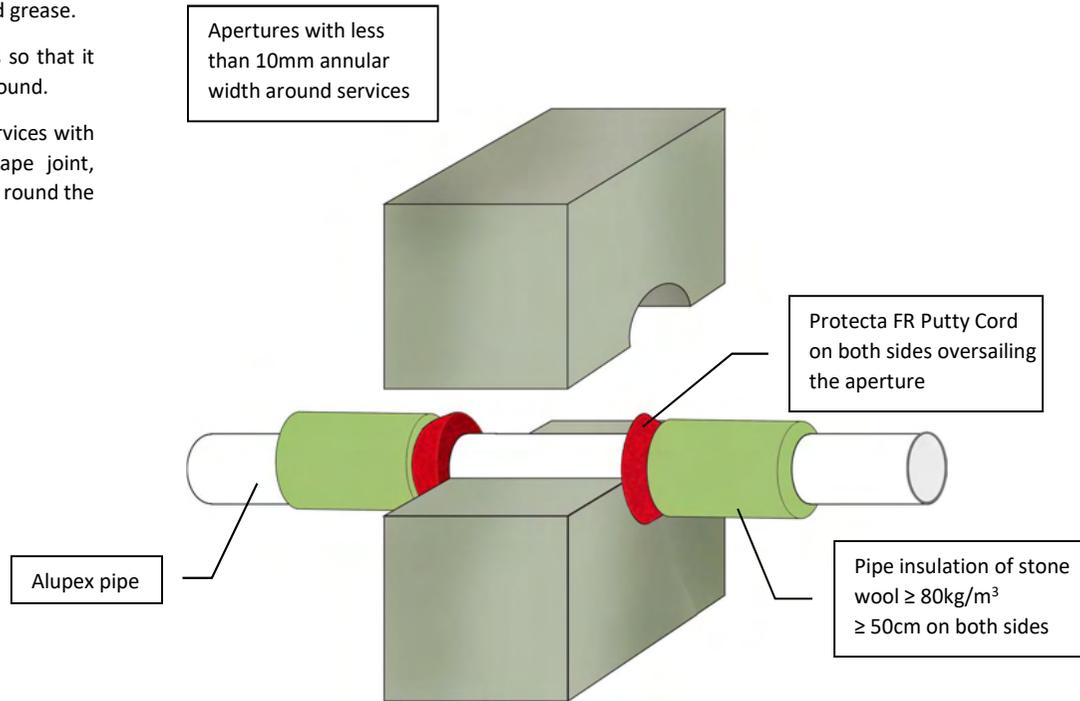
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Signed and approved:

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A4	30/8/21
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 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.



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 ≥ 650 kg/m ³

Fire & Sound classification	
Alupex pipe ≤ Ø16mm with ≥ 20mm thick pipe insulation	IE 90 C/C & E 90
Alupex pipe ≤ Ø75mm with ≥ 30mm thick pipe insulation	IE 90 C/C & E 90

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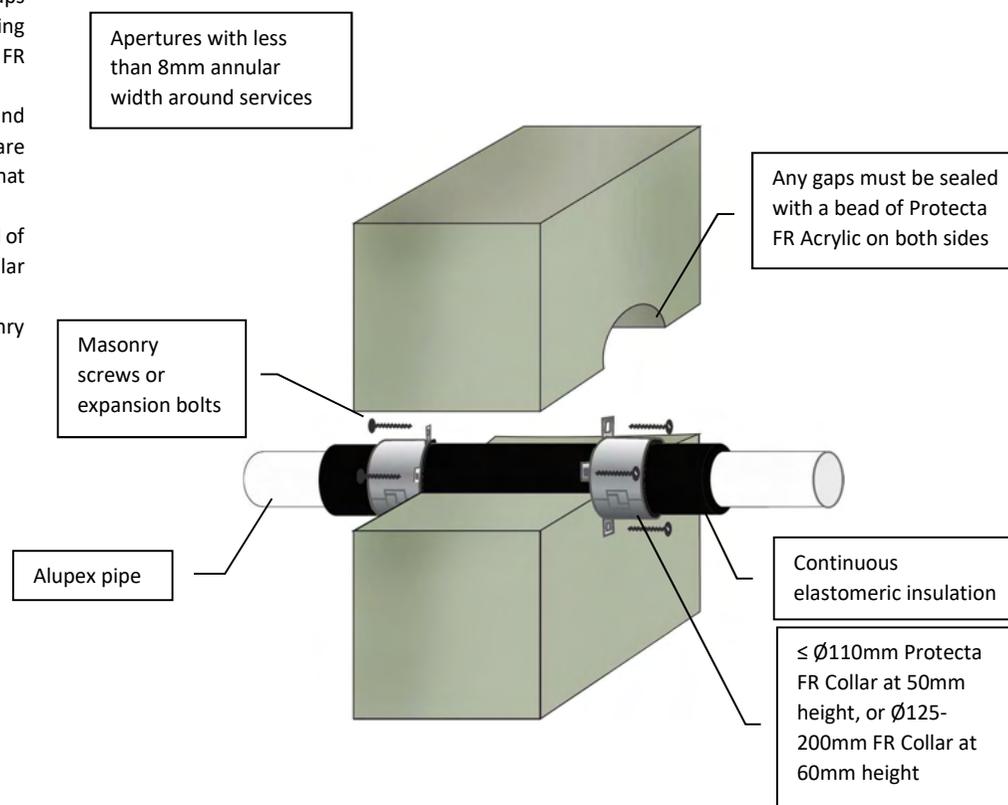
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 58 dB

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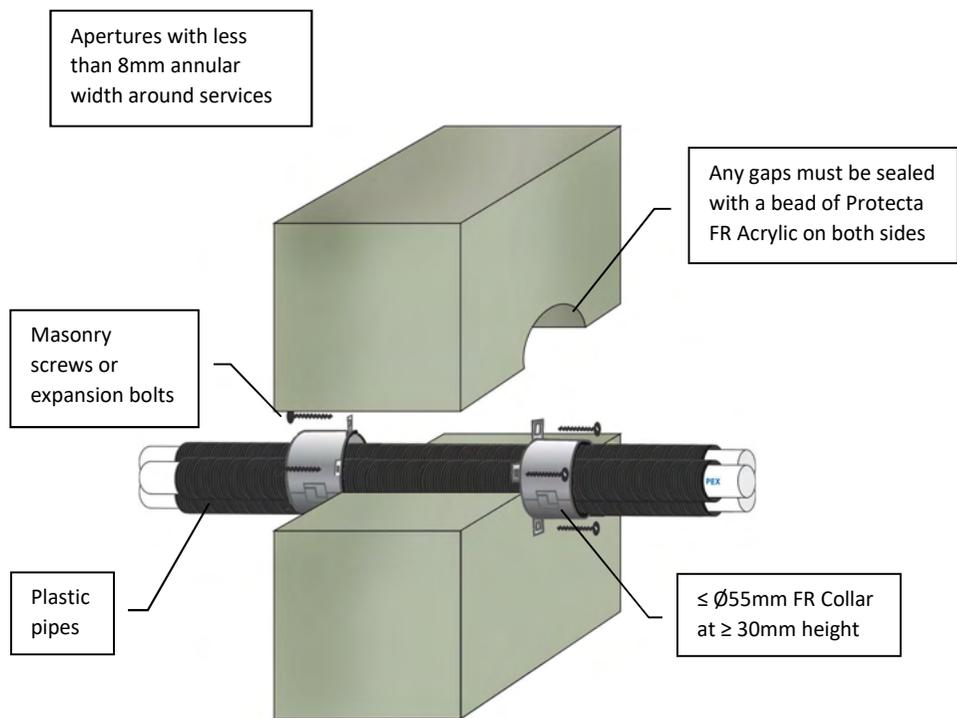
Signed and approved:

Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before fitting the 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
PEX pipe-in-pipes $\leq \text{Ø}25\text{mm}$, single, or in a bundle $\leq \text{Ø}55\text{mm}$	
	EI 90 C/C & E 120
Sound reduction (seal only)	Rw 58 dB

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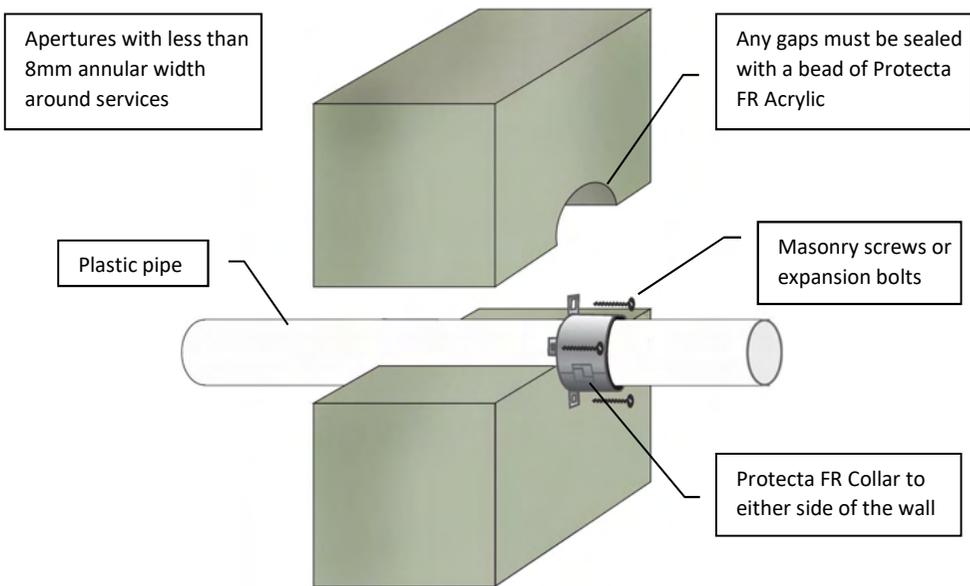
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 26/8/21
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before 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 with $\geq \text{Ø}4 \times 40\text{mm}$ 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

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 $\geq 650 \text{ kg/m}^3$

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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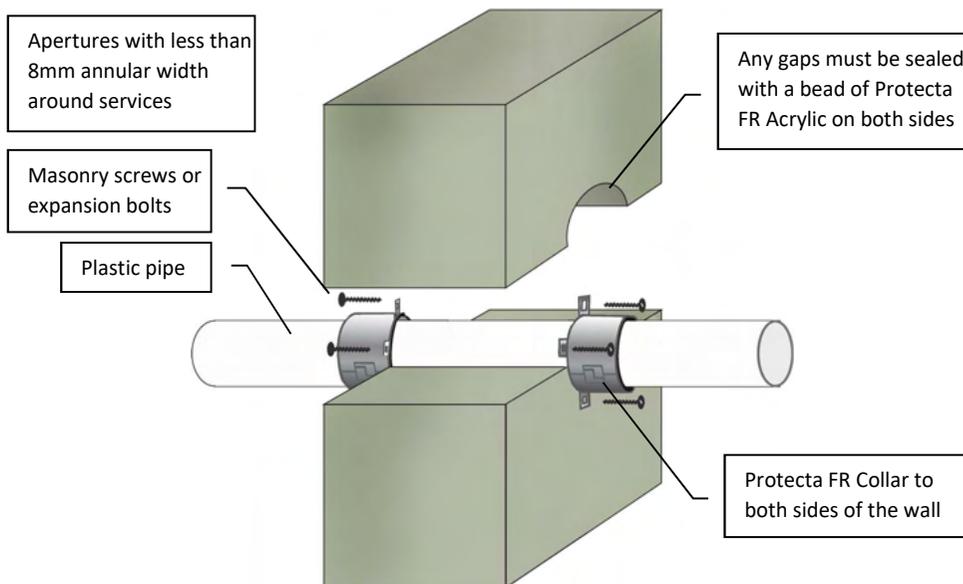
Signed and approved:

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 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}140\text{mm}$ PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
$\text{Ø}315 \times 9.2\text{mm}$ PVC-U & PVC-C	75mm	EI 60 C/C
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}140\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
$\text{Ø}200 \times 18.2\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\text{Ø}250 \times 22.7\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\leq \text{Ø}50\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U



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Signed and approved:

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 $\geq 650 \text{ kg/m}^3$

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®

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Tel: +44 (0) 148 4421036

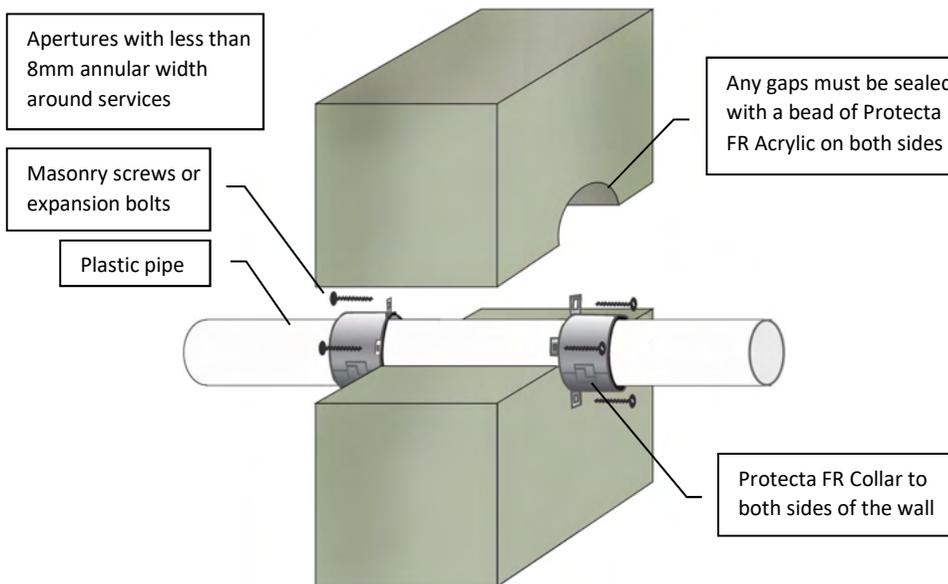
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 30/8/19

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}200\text{mm}$ PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
$\text{Ø}315 \times 9.2\text{mm}$ PVC-U & PVC-C	75mm	EI 120 C/C
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
$\leq \text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\text{Ø}200 \times 18.2\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\text{Ø}250 \times 22.7\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 90 C/C (E 120)
$\leq \text{Ø}50\text{mm}$ PP	30mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 240 C/C, EI 240 U/C, EI 90 C/U, EI 90 U/U (E 240)
$\leq \text{Ø}140\text{mm}$ PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U (E 240)
$\text{Ø}160\text{mm}$ PP	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)



ETA 21/0070

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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 walls

Construction Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

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

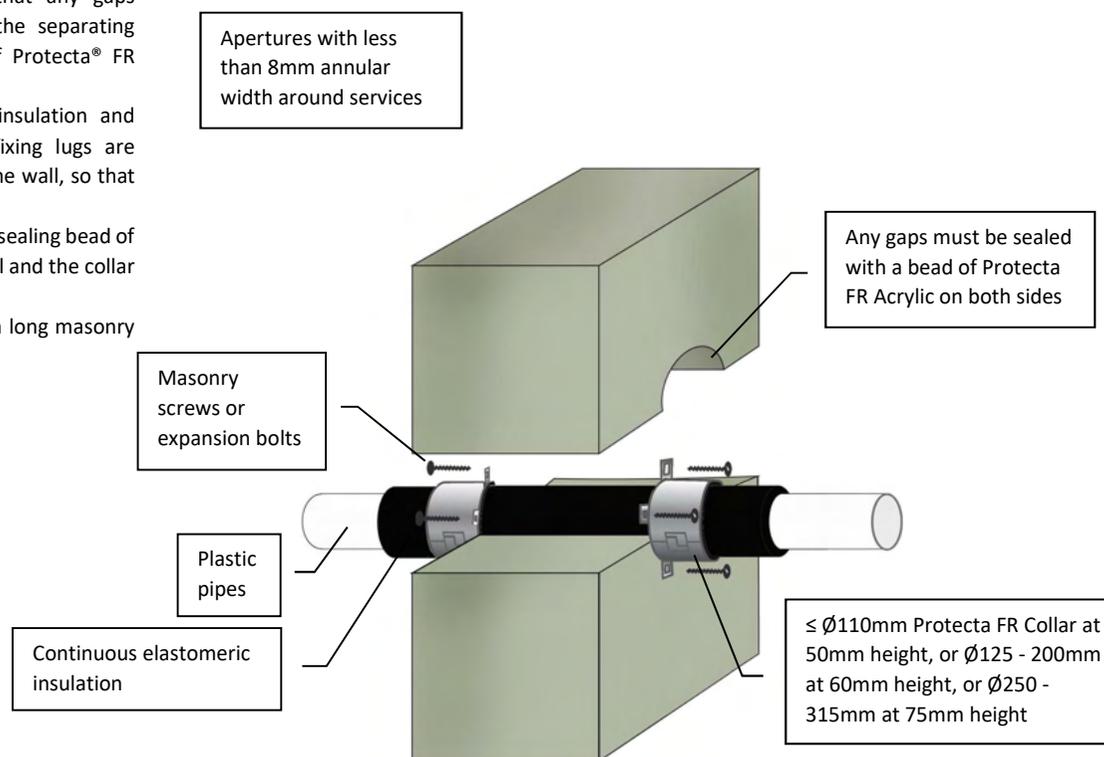
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 20/8/19

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 collars with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PE pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe $\text{Ø}160\text{mm}$ with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe $\text{Ø}160\text{mm}$ 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



ETA 21/0070

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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:



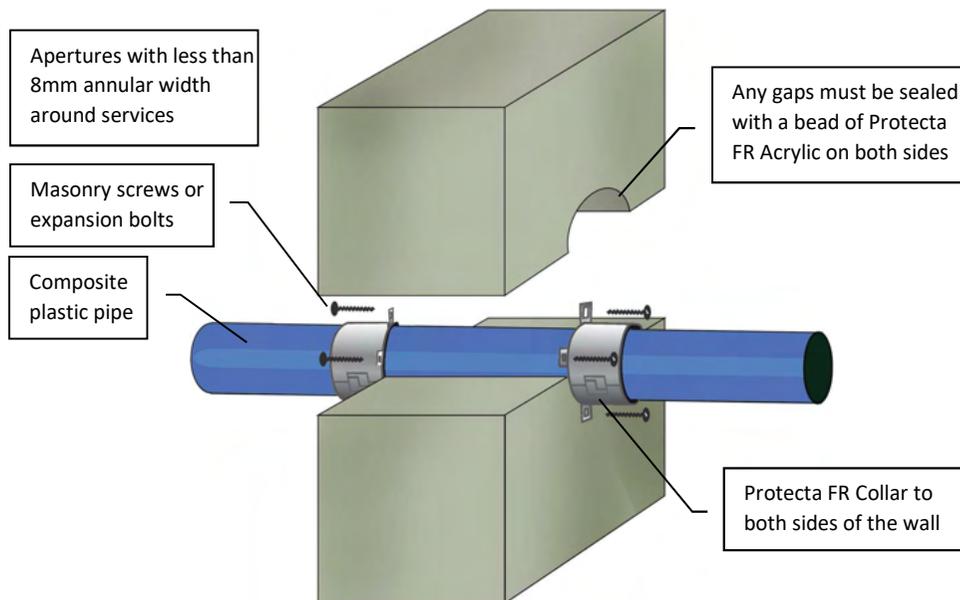
Protecta®
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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

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 $\geq 650 \text{ kg/m}^3$

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



ETA 21/0070

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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:

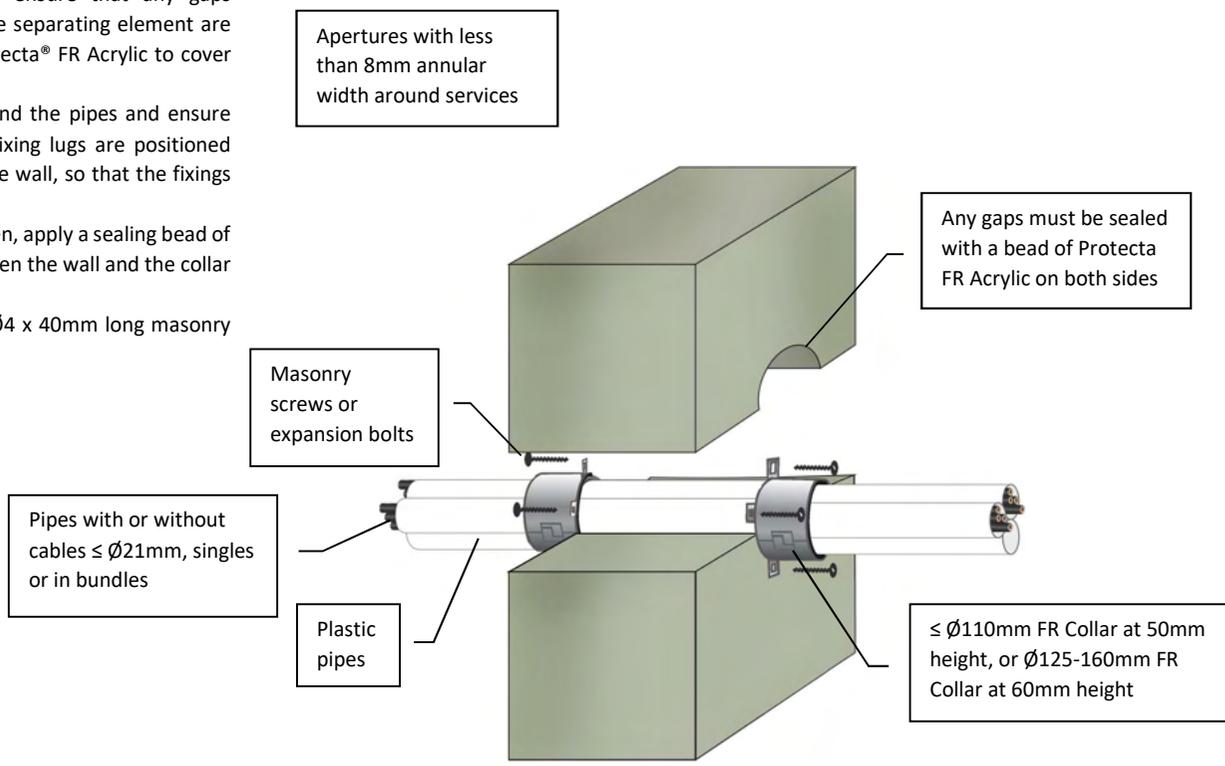
Protecta[®]
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: **30/8/21**

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

Installation Instructions

1. Before 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PVC pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 58 dB

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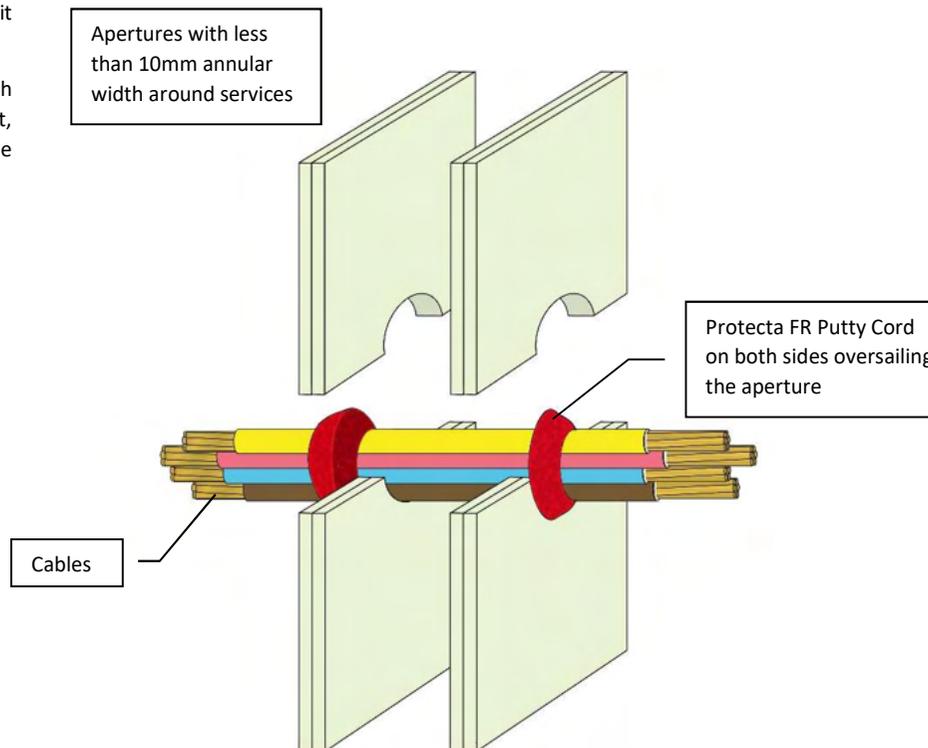
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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.



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

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



ETA 21/0041

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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

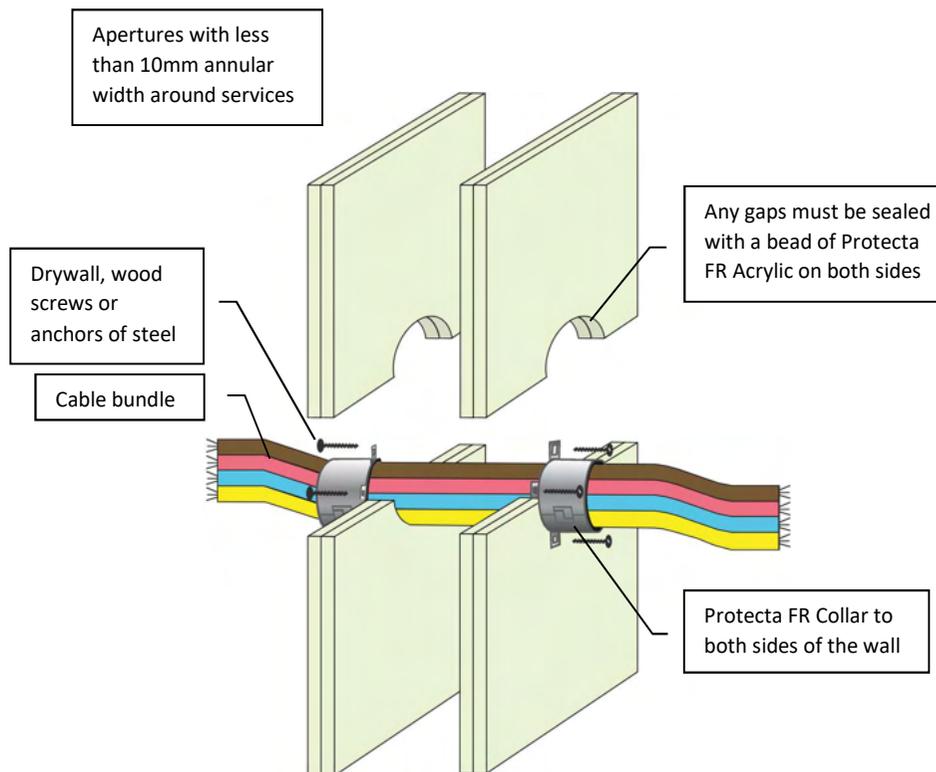
Signed and approved:

Sheet size:	Drawn date & no:
A4	29/5/18

Scale:	Drawn by:
NTS	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.



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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

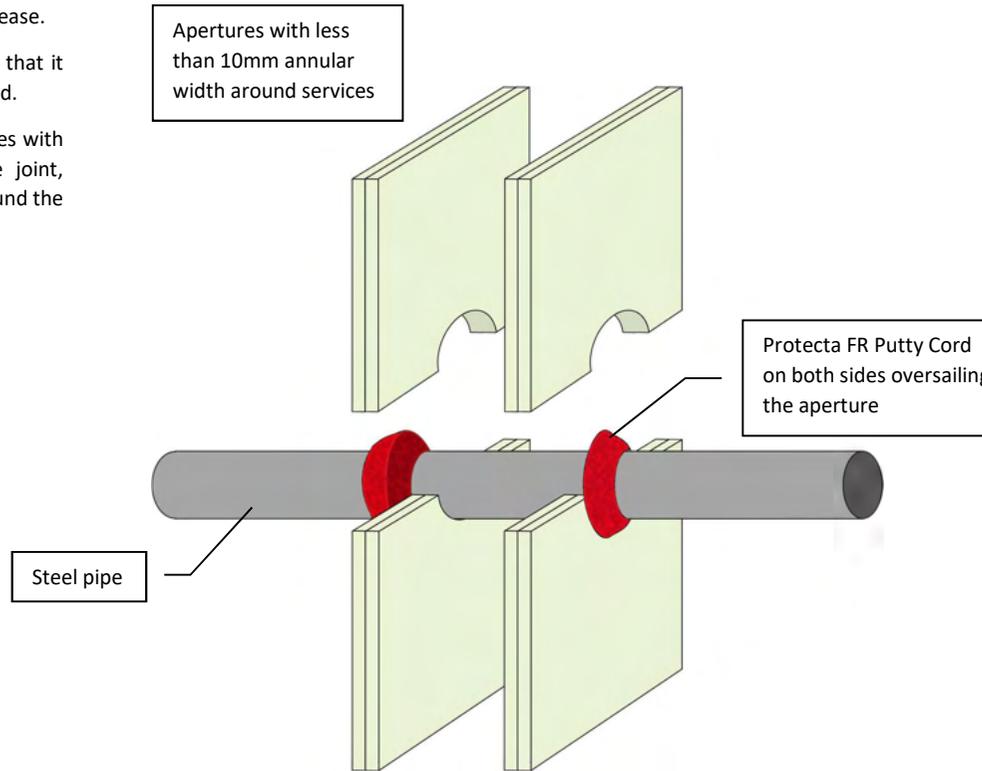
Sound reduction (seal only) 58dB

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 21/0041

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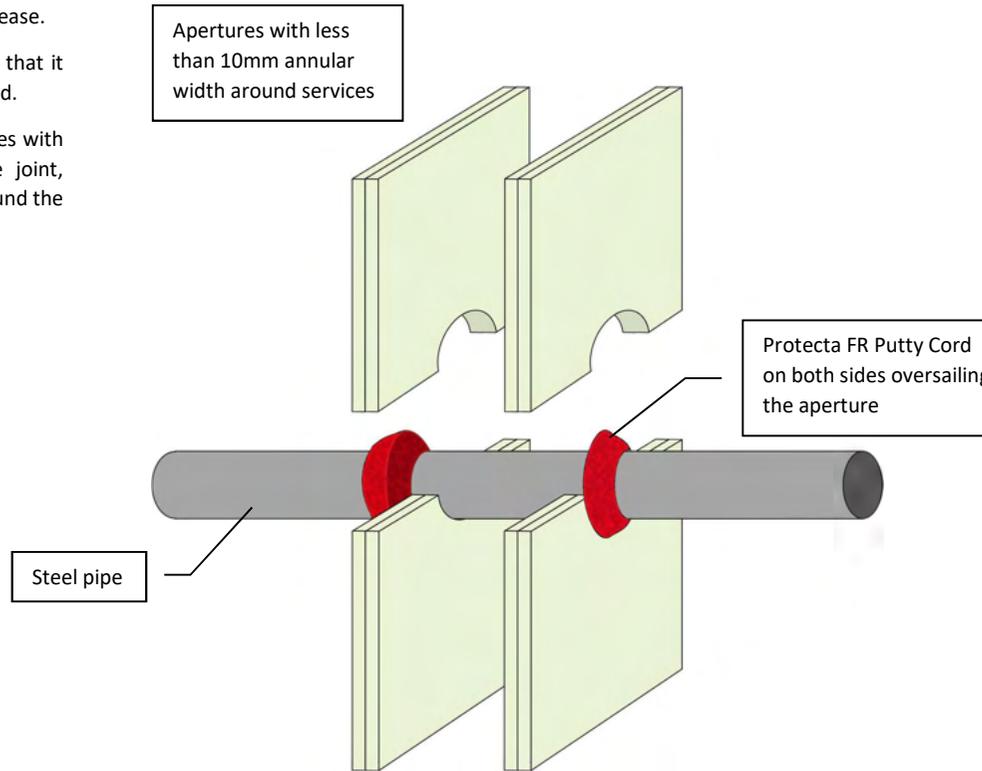
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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
 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	30/8/21
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 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 21/0041

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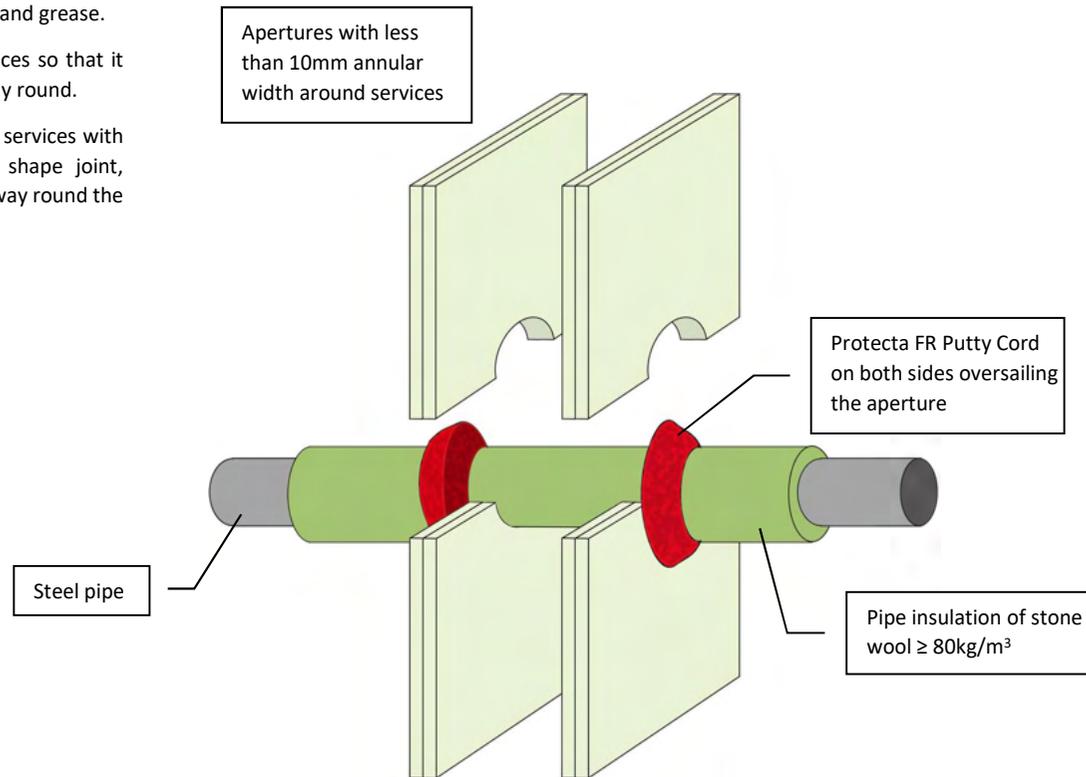
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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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Sheet size:	Drawn date & no:
A4	30/8/21
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 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 21/0041

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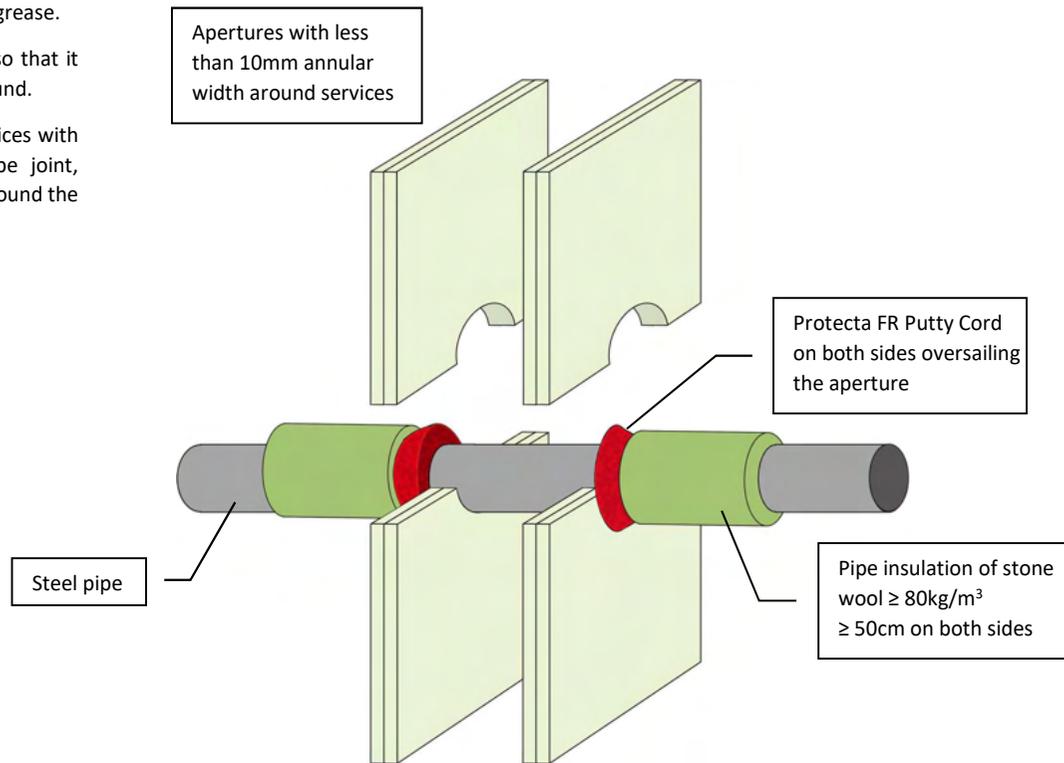
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 ≤ 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	
 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	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 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.



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

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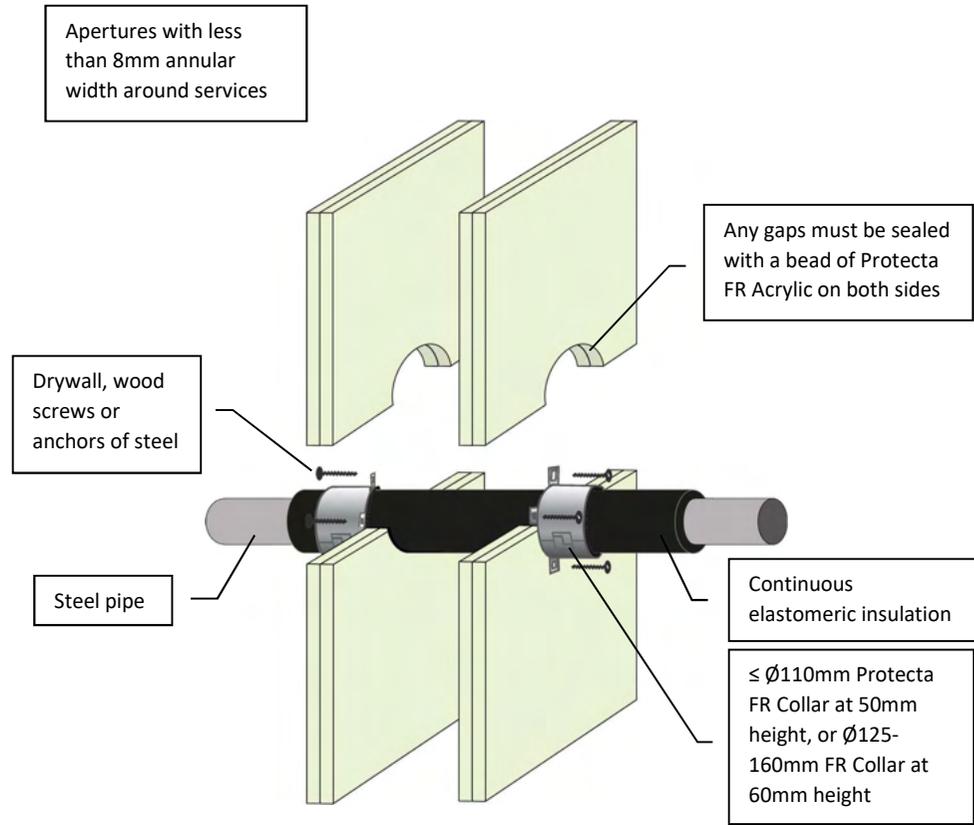
Signed and approved:

Sheet size: **A4** Drawn date & no: **11/11/18**

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

Installation Instructions

1. Before fitting the 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 of steel



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

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



ETA 21/0070

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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

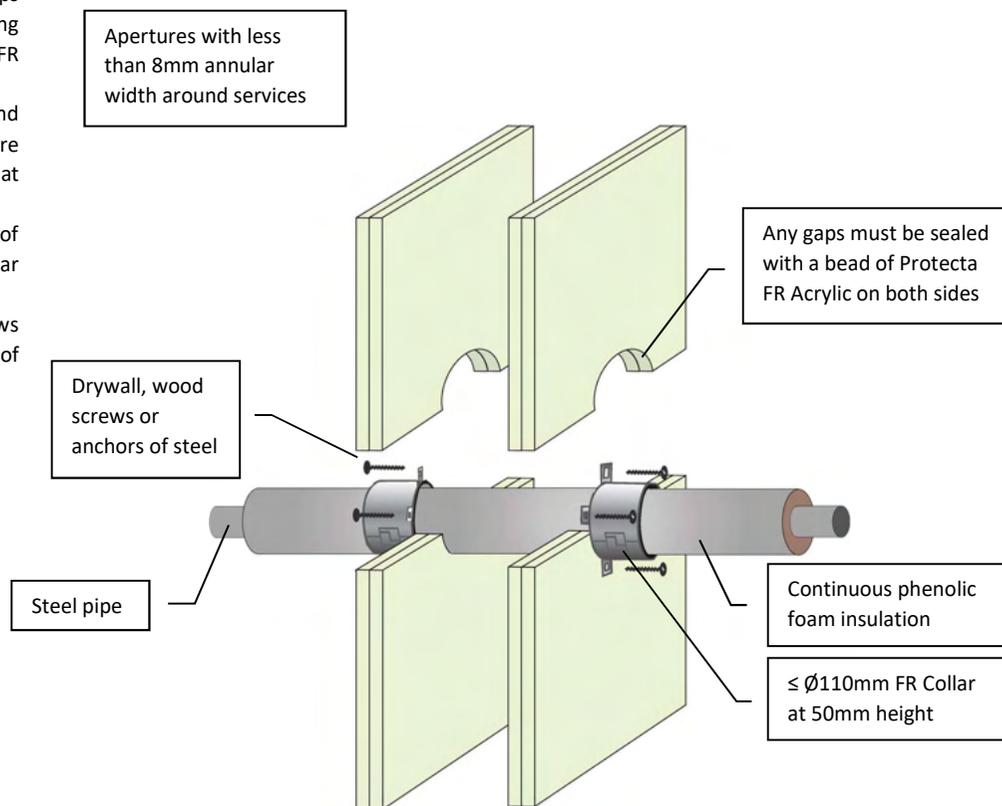
Signed and approved:

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



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 $\leq \text{Ø}54\text{mm}$ with 25mm thick pipe insulation
EI 60 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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Huddersfield, West Yorkshire, HD1 6SB
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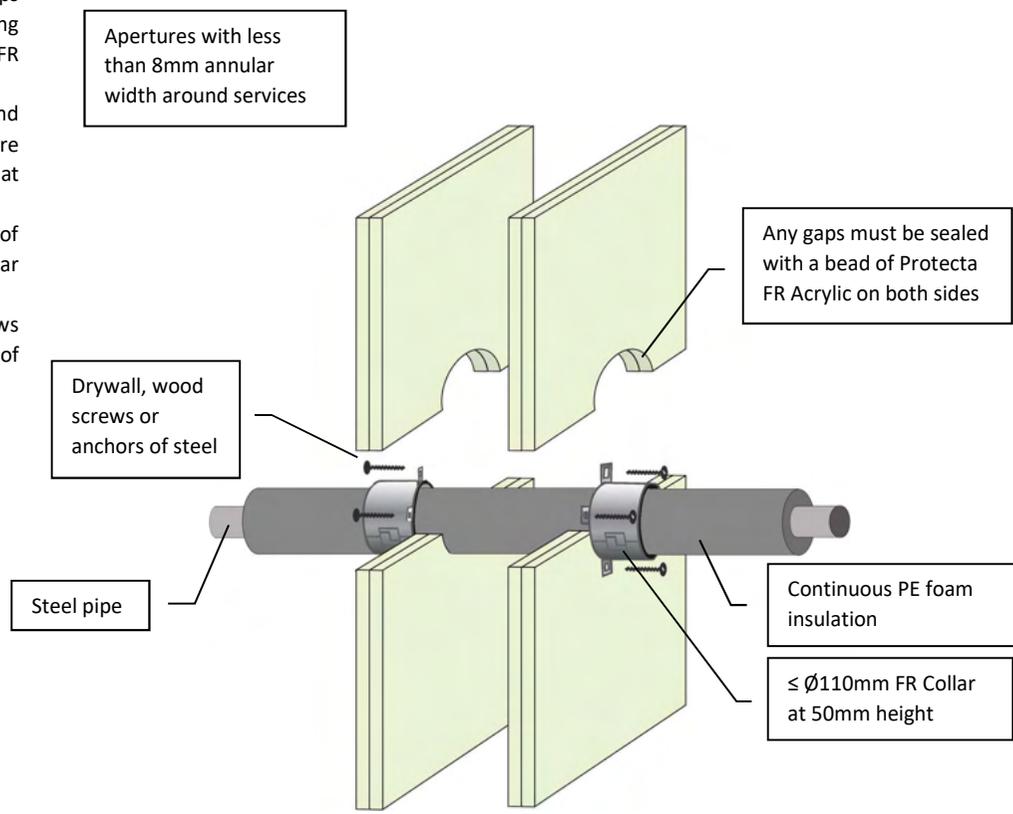
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Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before fitting the collars ensure that any gaps between the 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 of steel



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 pipe insulation
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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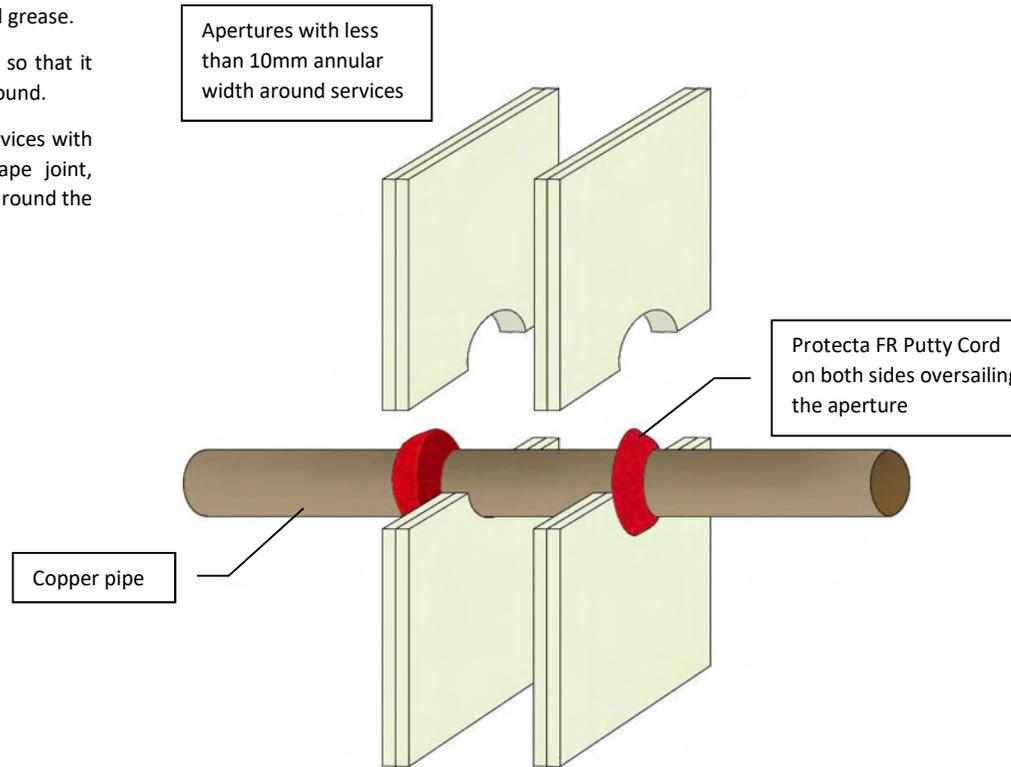
Signed and approved:

Sheet size: **A4** Drawn date & no: 30/8/21

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

Installation Instructions

1. Before 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 21/0041

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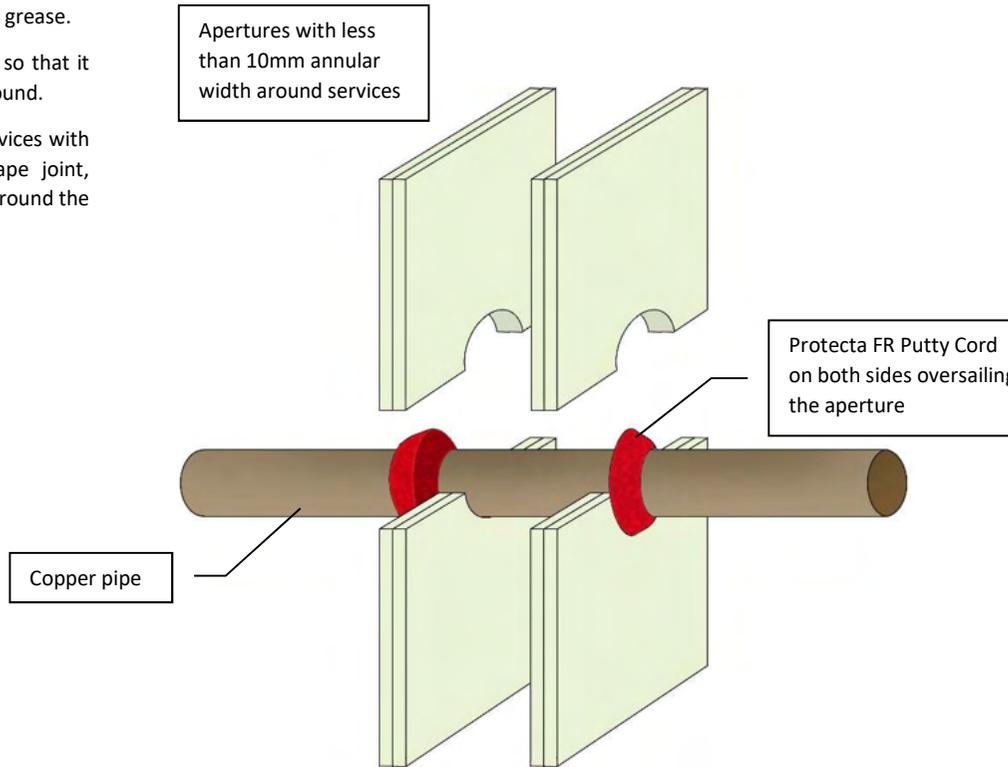
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in 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 $\leq \varnothing 12\text{mm}$	
EI 60 C/C & 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:	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 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.



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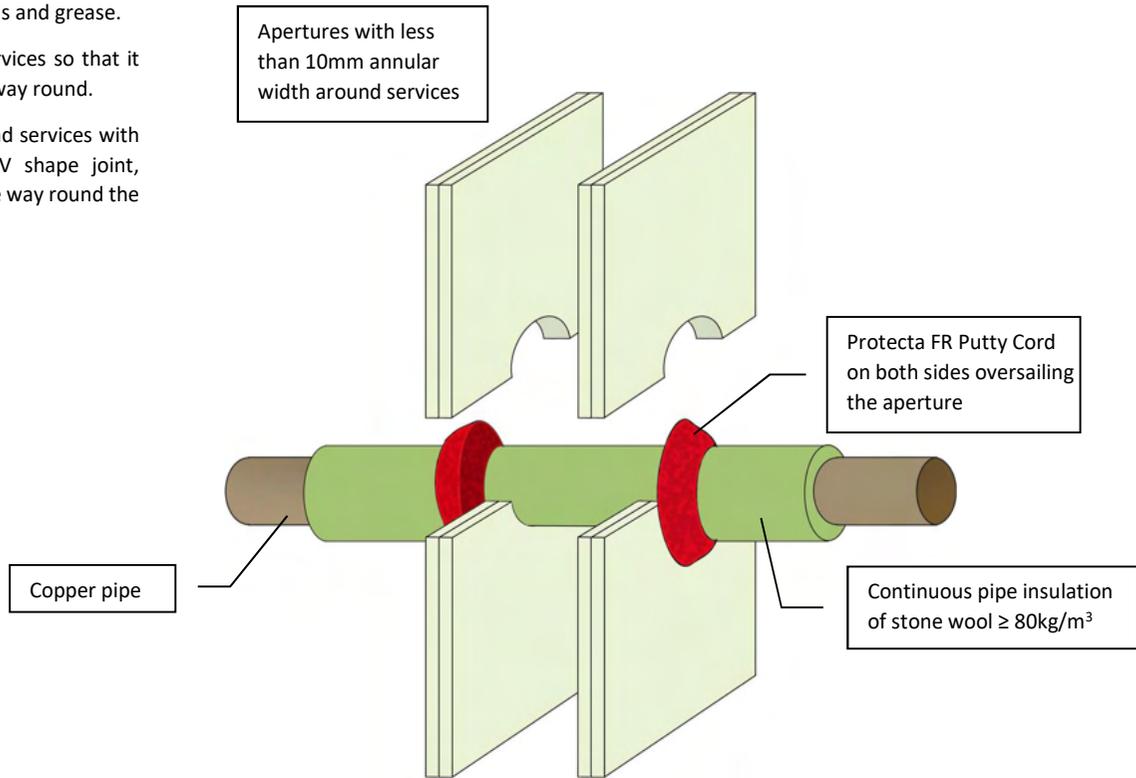
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Putty Cord Ø15mm
Application	Fire stopping of copper pipes in 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 $\leq \text{Ø } 54\text{mm}$	EI 15 C/C & 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:	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 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.



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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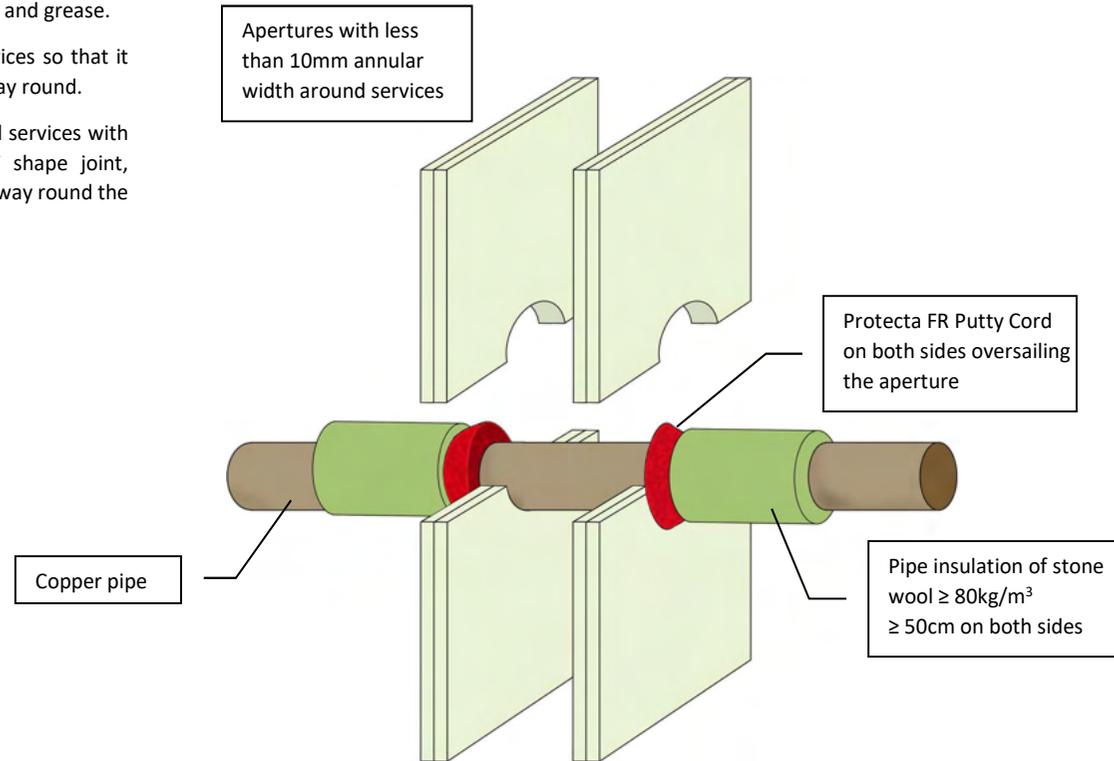
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Scale:	Drawn by:
NTS	K.B

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 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.



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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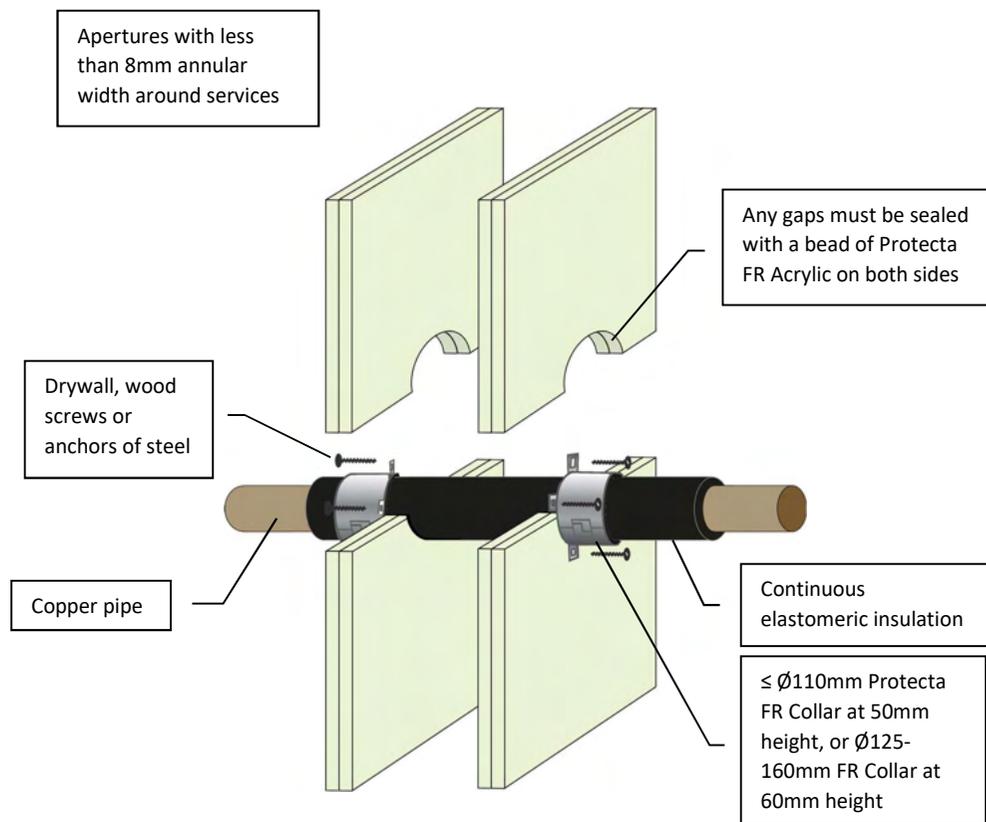
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Signed and approved:

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 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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



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 $\leq \text{Ø}54\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 58 dB

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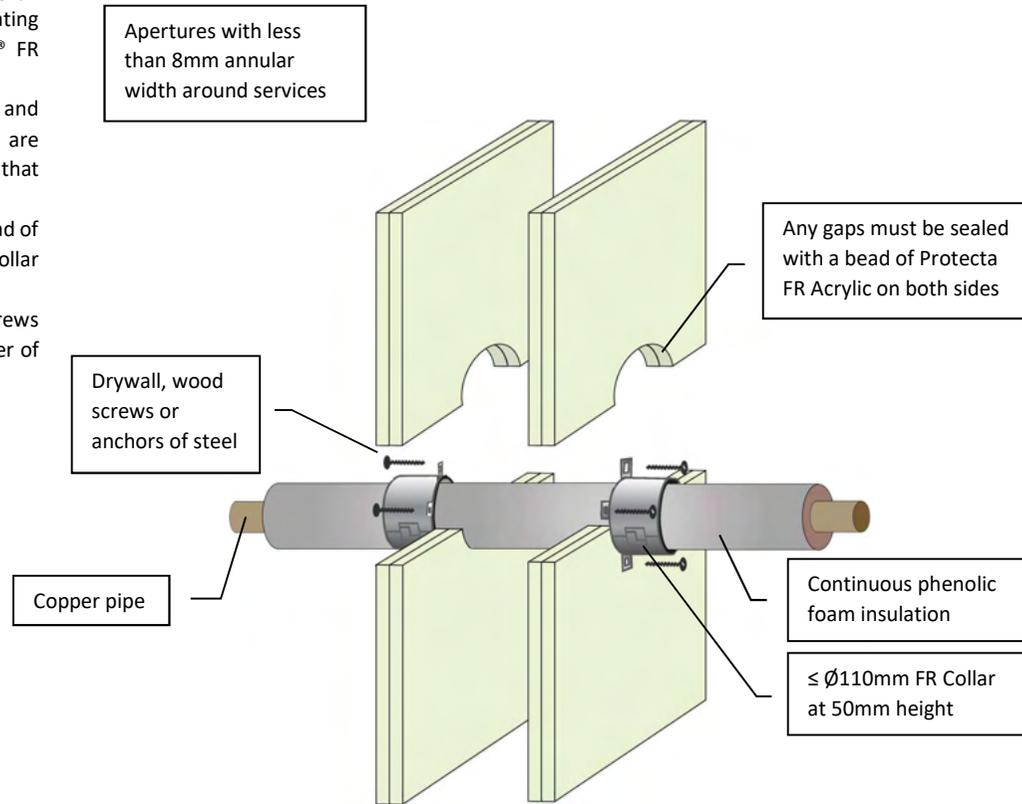
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Scale: **NTS** Drawn by: K.B

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}54\text{mm}$ with 25mm thick pipe insulation
EI 60 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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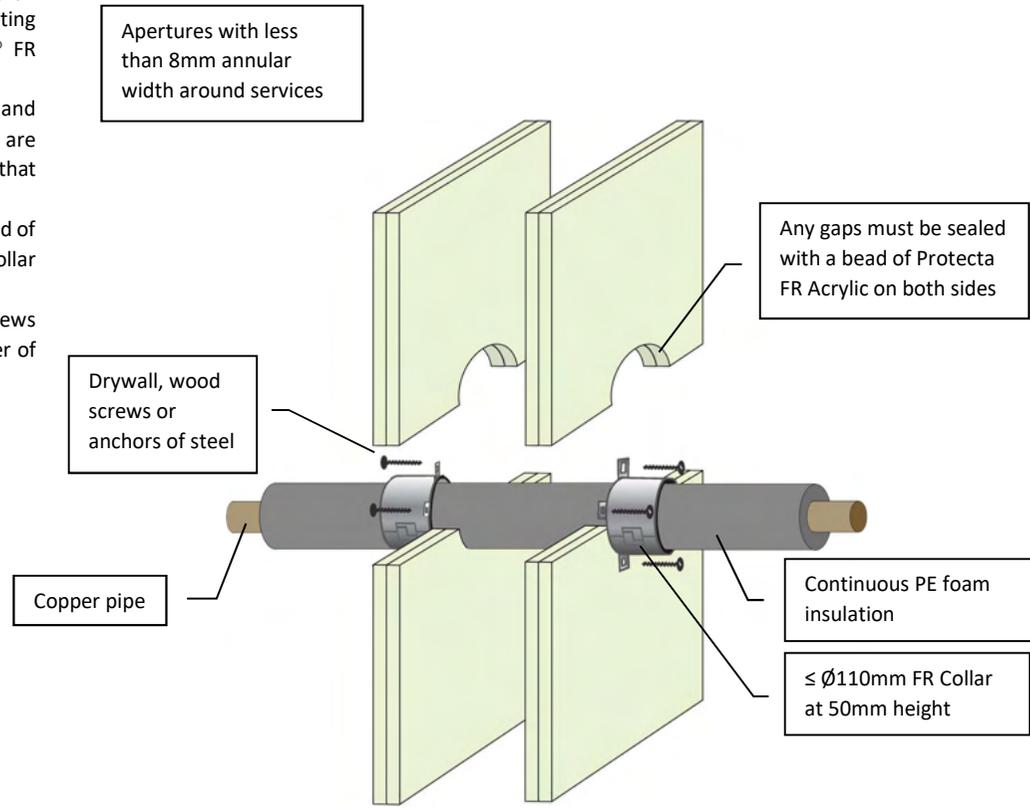
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3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the wall and the collar shell.
4. Attach the collar with $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}54\text{mm}$ with 20mm thick pipe insulation
EI 90 C/C & E 120

Sound reduction (seal only)
Rw 58 dB

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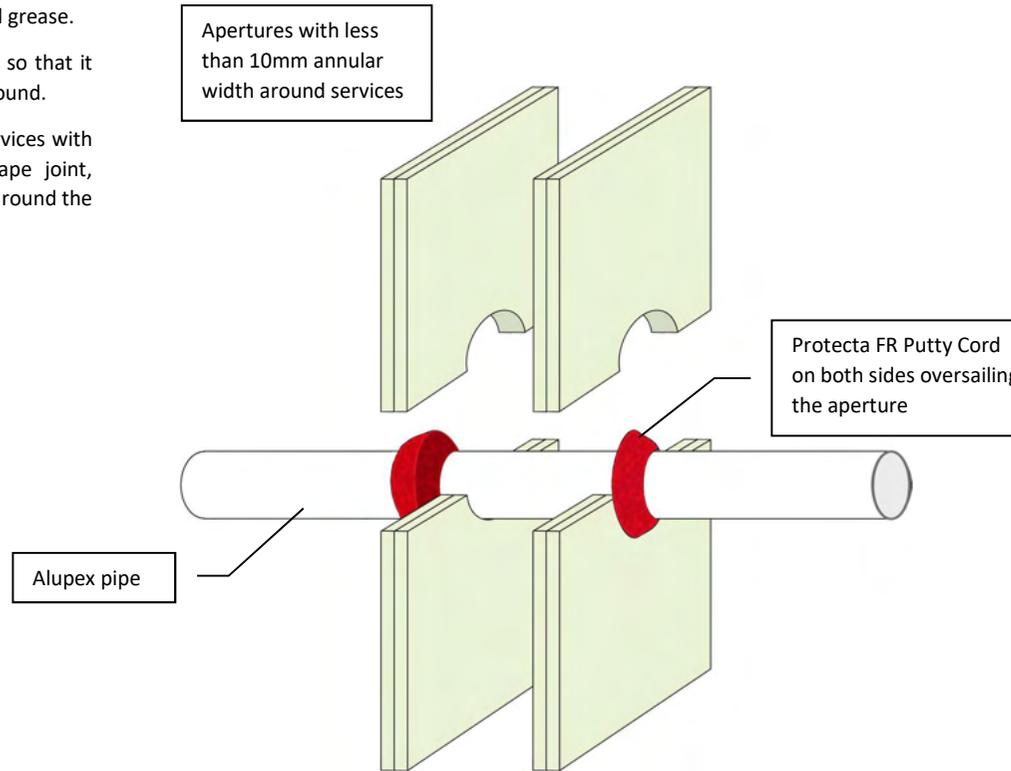
Signed and approved:

Sheet size: **A4** Drawn date & no: 30/8/21

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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 21/0041

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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

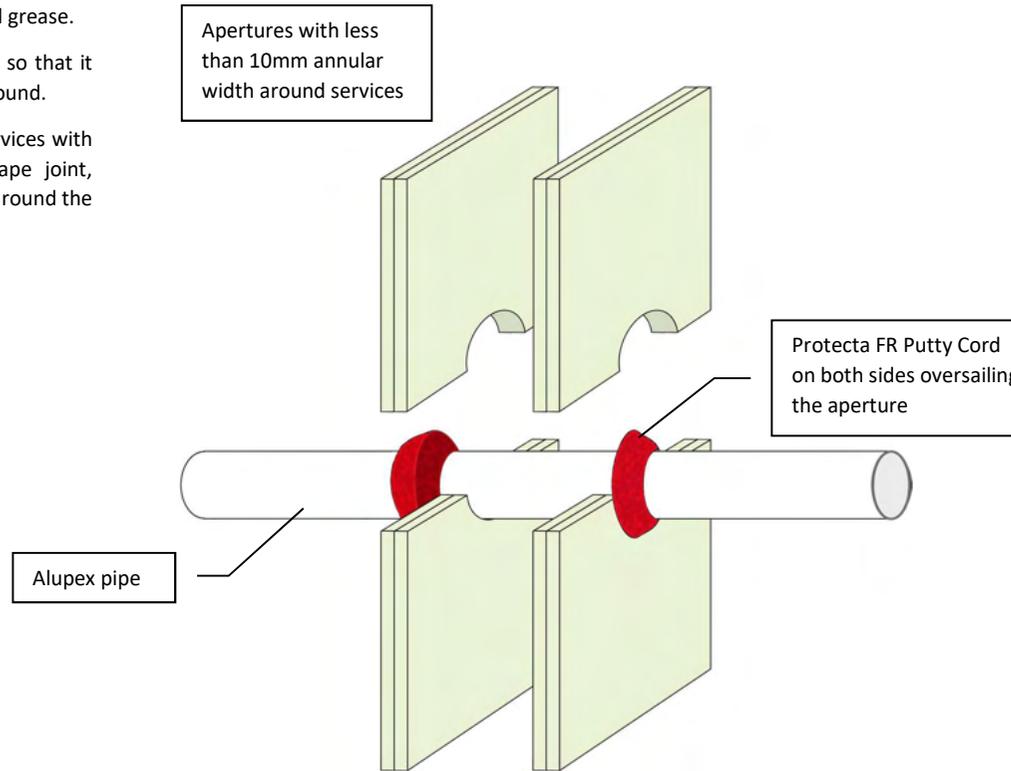
Fire & Sound classification	
Alupex pipe ≤ Ø 16mm	EI 120 C/C & E 120
Alupex pipe ≤ Ø 20mm	EI 90 C/C & E 120

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Huddersfield, West Yorkshire, HD1 6SB
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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.



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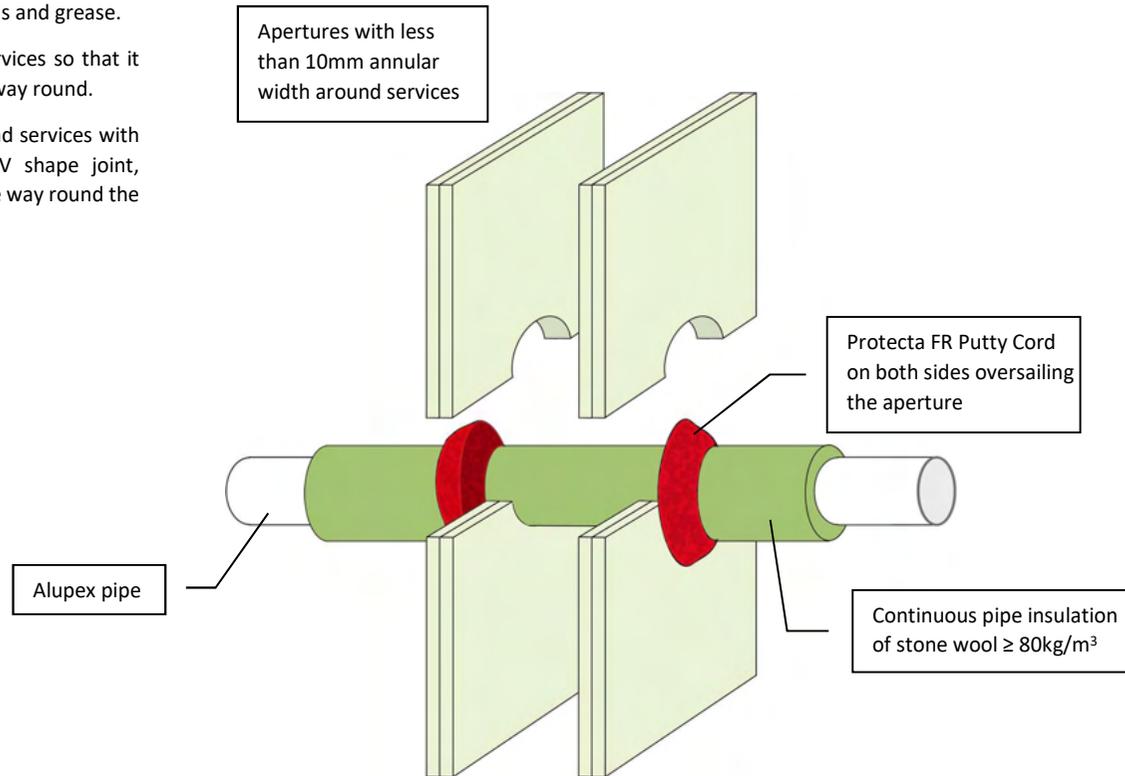
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Signed and approved:

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 $\leq \varnothing 75\text{mm}$	
EI 90 C/C & 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:	Drawn date & no:
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NTS	K.B

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.



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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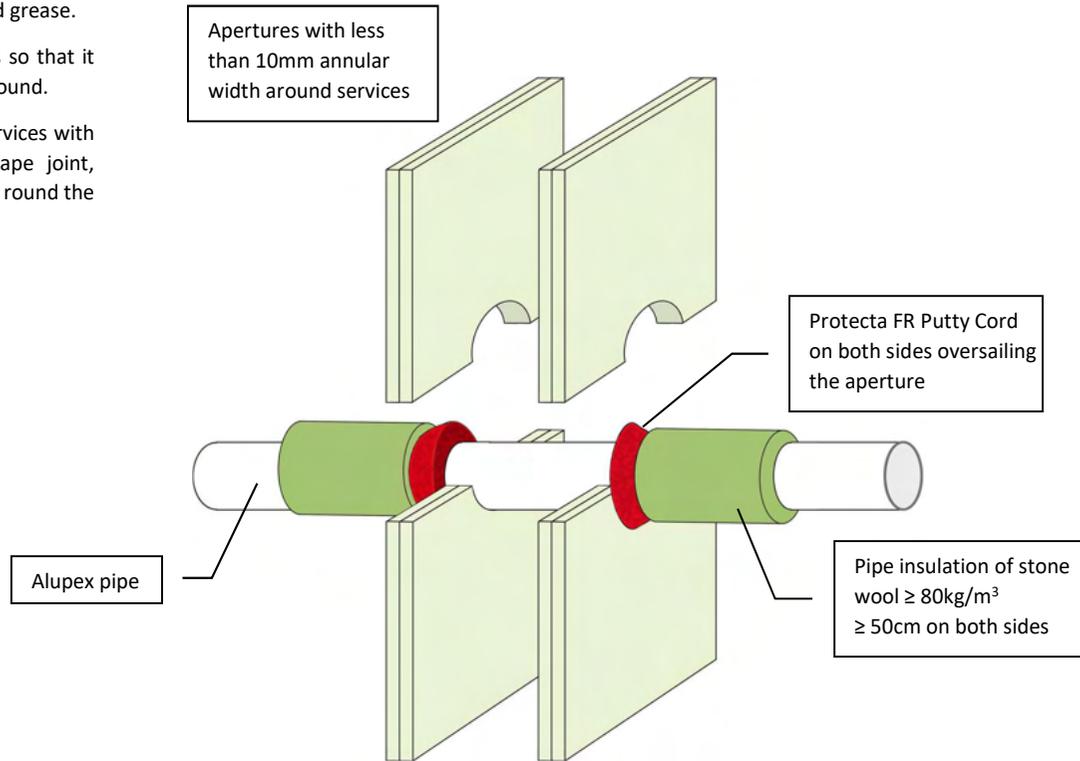
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Installation Instructions

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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.



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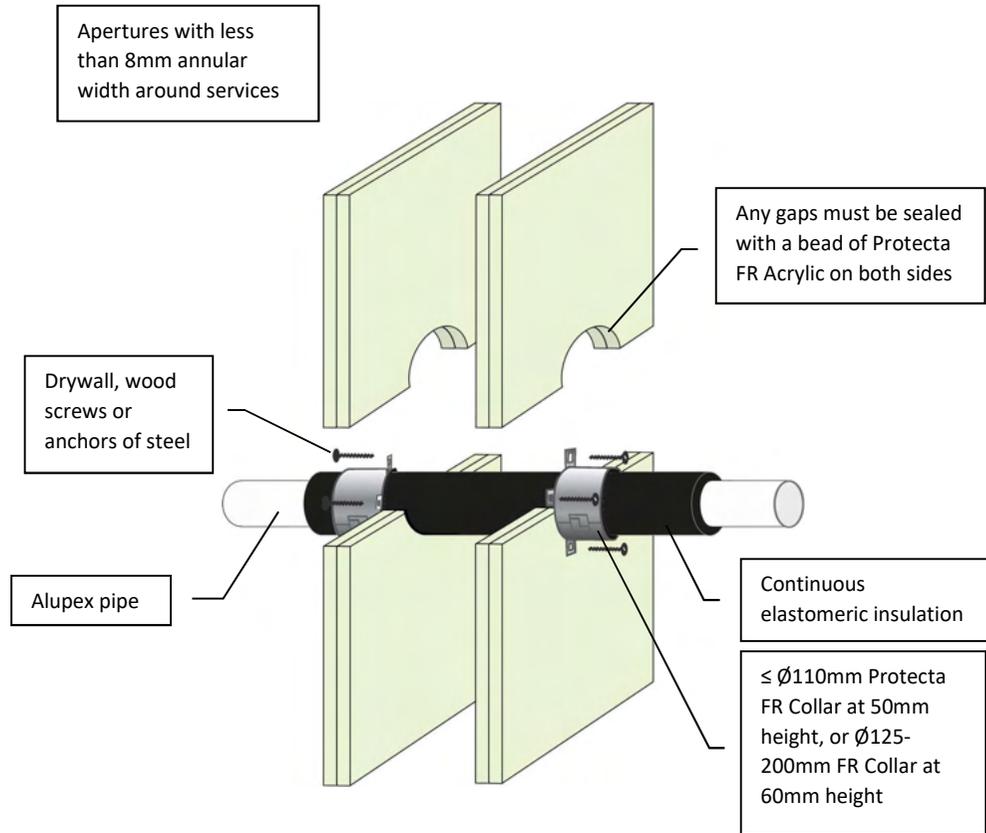
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Installation Instructions

1. Before fitting the collars ensure that 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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel.



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 $\leq \text{Ø}75\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

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

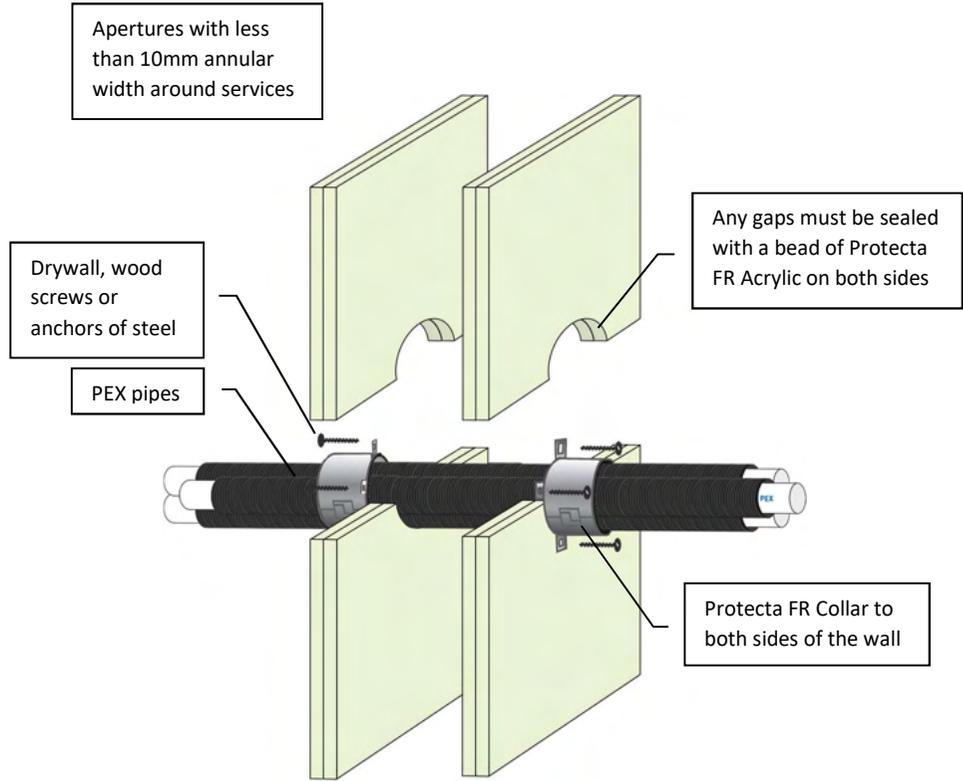
Signed and approved:

Sheet size: **A4** Drawn date & no: 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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



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 $\leq \text{Ø} 25\text{mm}$, single or in a bundle $\leq \text{Ø}55\text{mm}$, with collars $\leq \text{Ø}55\text{mm}$ at $\geq 30\text{mm}$ height

EI 90 & E 120

Sound reduction (seal only) 58dB

Protecta[®]

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ETA 21/0070

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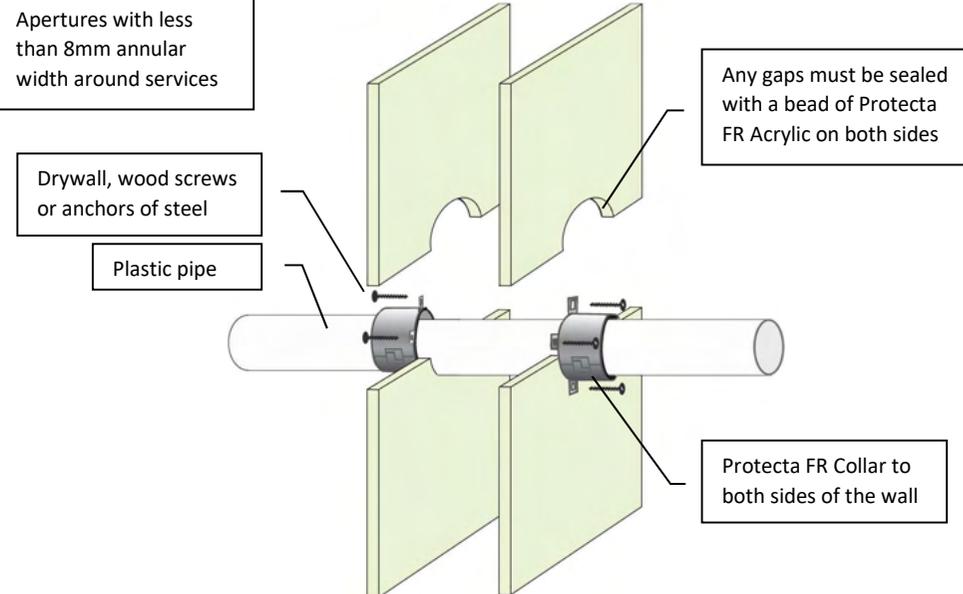
Signed and approved:

Sheet size: **A4** Drawn date & no: **27/7/19**

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 $\geq \text{Ø}4\text{mm}$ 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)

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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Signed and approved:



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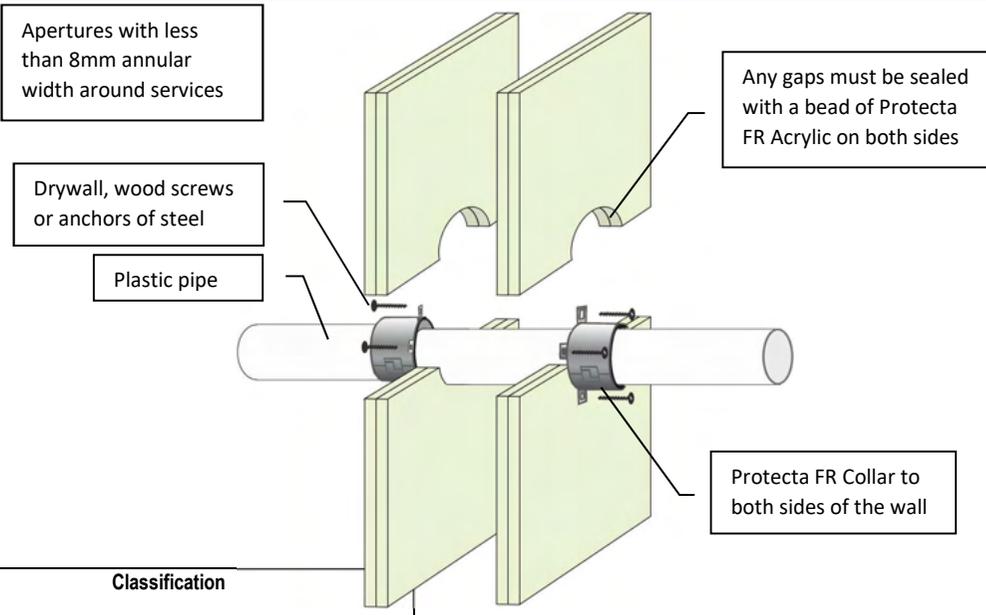
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 30/8/21

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

Installation Instructions

1. Before fitting the 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



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



Protecta®

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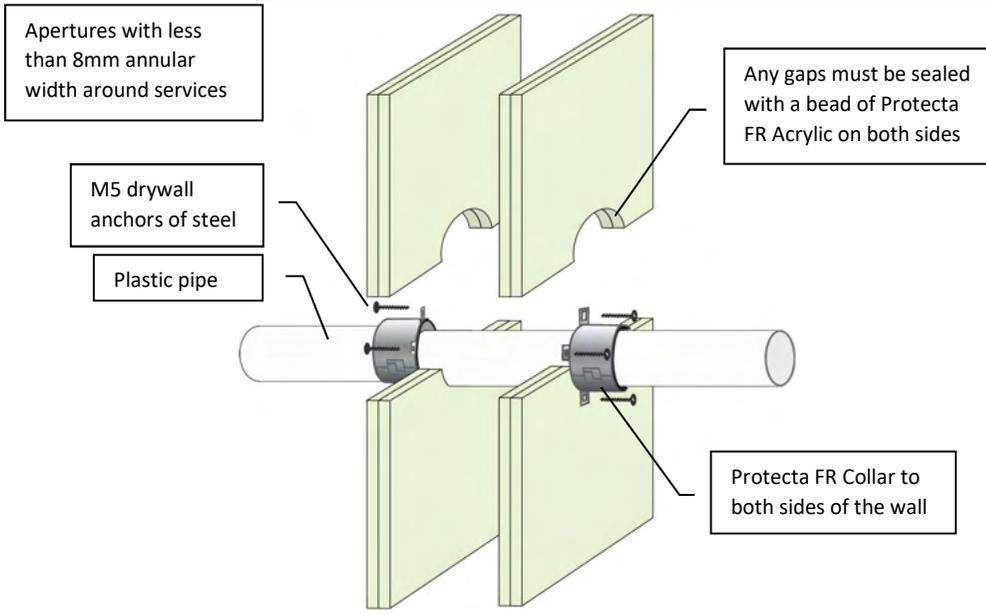
Signed and approved:

Sheet size: **A4** Drawn date & no: **30/8/21**

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

Installation Instructions

1. Before fitting the 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

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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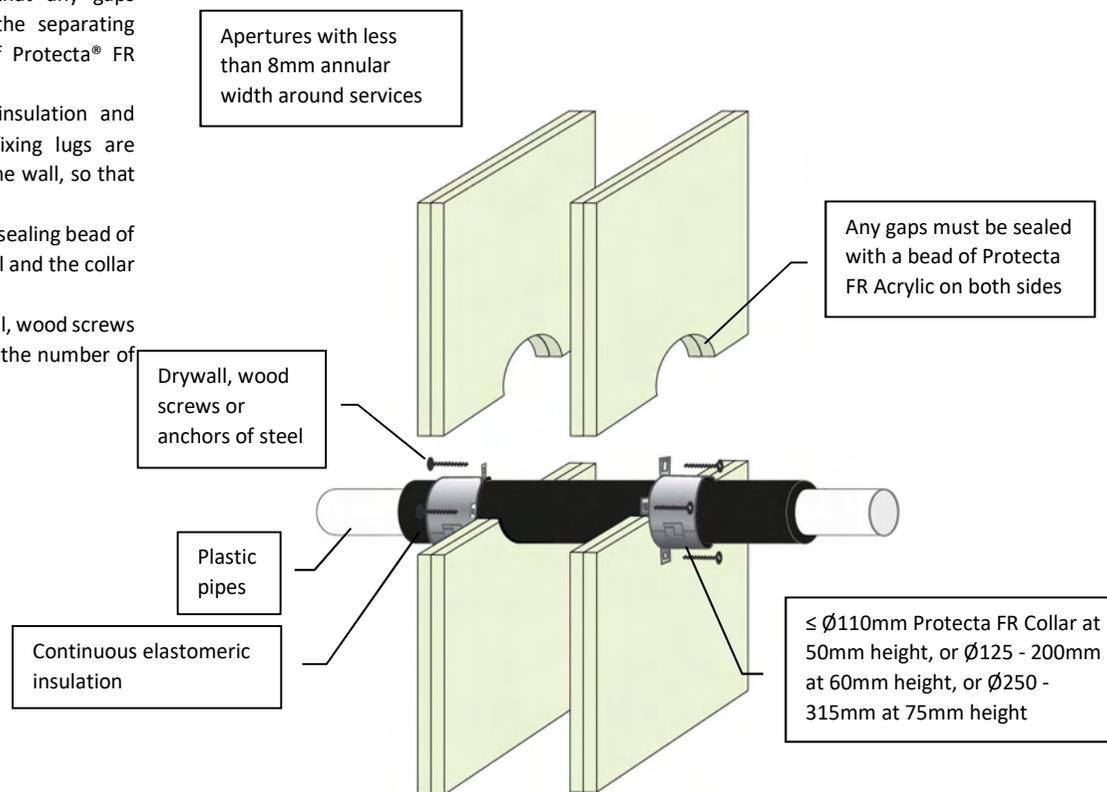
Signed and approved:

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.



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



ETA 21/0070

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Signed and approved:

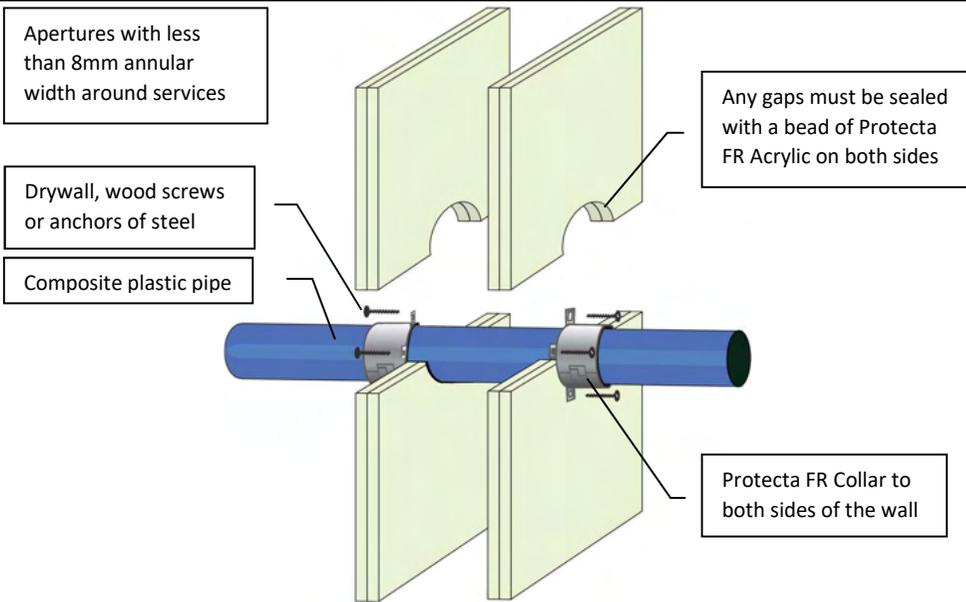


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Sheet size: A4	Drawn date & no: 30/8/21
Scale: NTS	Drawn by: K.B

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 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
≤ Ø50mm Aquatherm Green SDR9	50mm	EI 120 C/C
≤ Ø110mm Aquatherm Green SDR9	50mm	EI 60 C/C (E 120)
≤ Ø50mm BluePower	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm BluePower	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U (E 120)
Ø125mm BluePower	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U
Ø160mm BluePower	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U
≤ Ø50mm Geberit Silent-PP	50mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø110mm Geberit Silent-PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 120)
≤ Ø50mm Polo-Kal NG pipes	50mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø110mm Polo-Kal NG pipes	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
Ø125mm Polo-Kal NG pipes	60mm	EI 120 C/C, EI 120 U/C (E 120 C/U, E 120 U/U)
Ø160mm Polo-Kal NG pipes	60mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø50mm Rehau Raupiano Plus	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
≤ Ø110mm Rehau Raupiano Plus	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 120)
≤ Ø160mm Rehau Raupiano Plus	60mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø110mm Uponor Decibel pipes	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 120)
≤ Ø50mm Wavin SiTech	50mm	EI 120 C/C, EI 120 U/C, EI 120 C/U, EI 120 U/U
≤ Ø110mm Wavin SiTech	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 120)



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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.

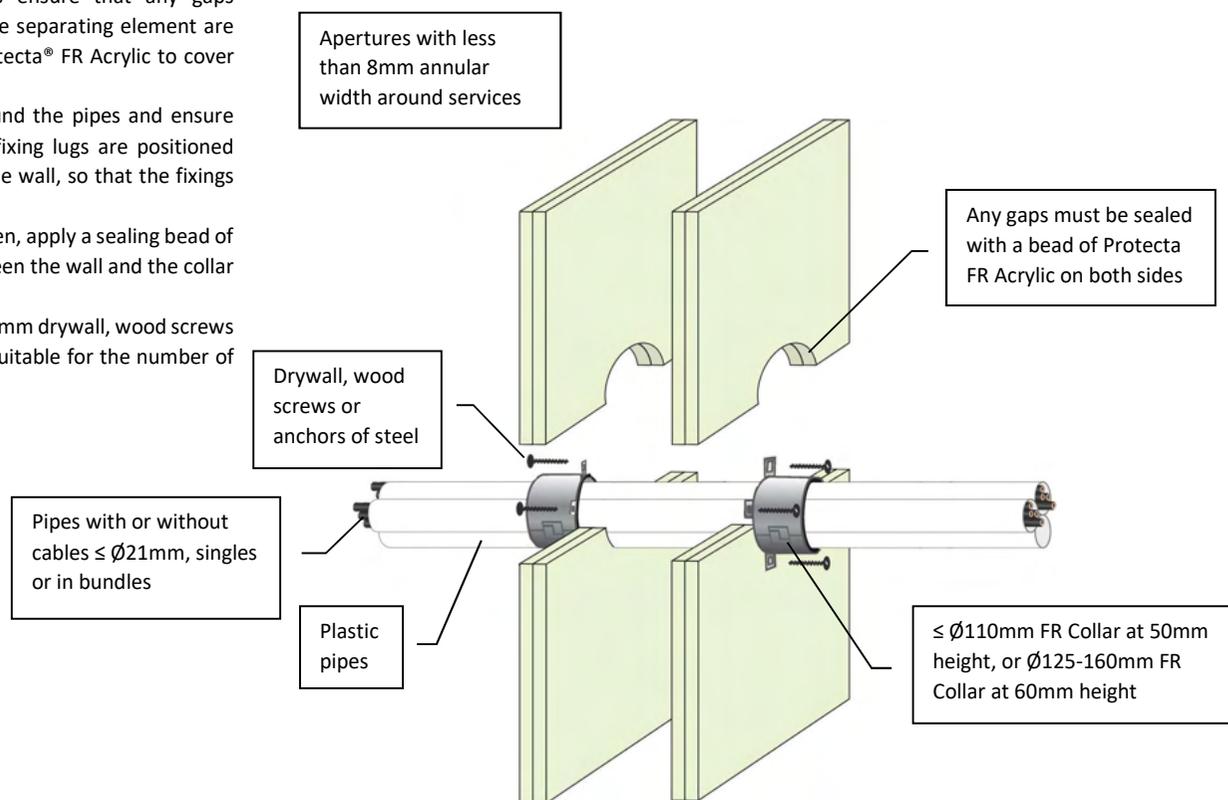
Sound reduction (seal only) Rw 58dB

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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 ≥ Ø4mm drywall, wood screws or anchors of steel



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



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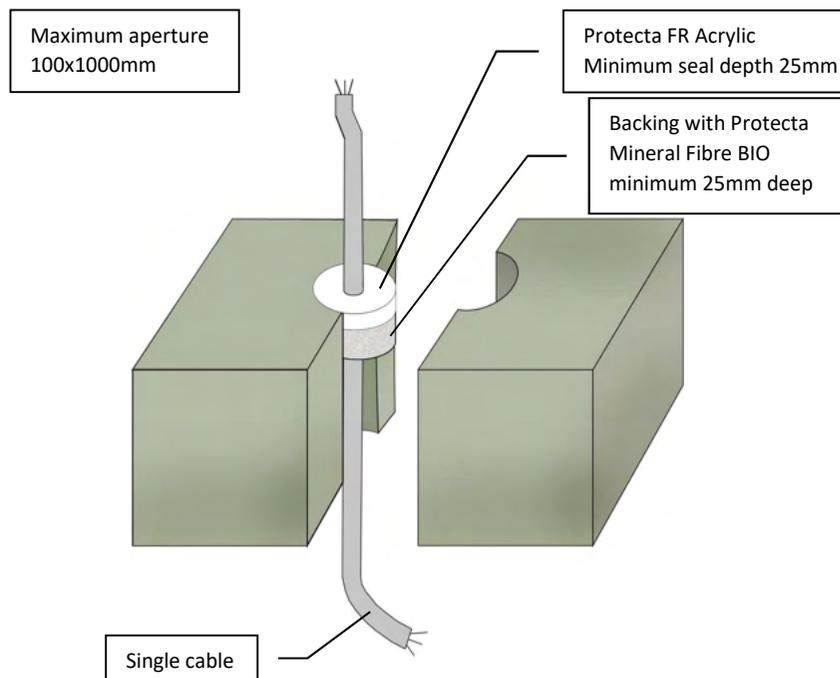
Appendix II

-

Service penetration solutions with annular gaps $\leq 30\text{mm}$

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.



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/m³

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

Protecta[®]

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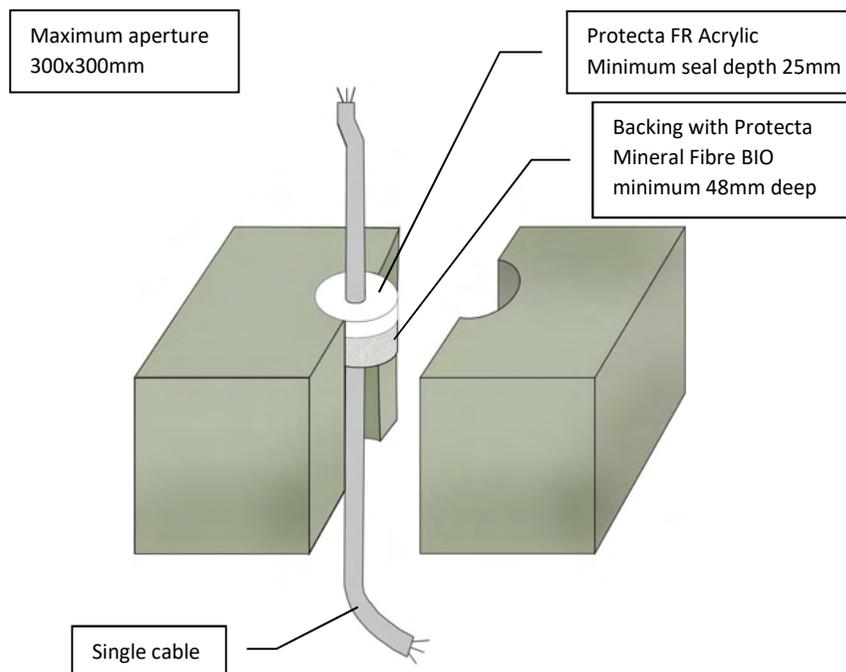
Signed and approved:

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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. 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.



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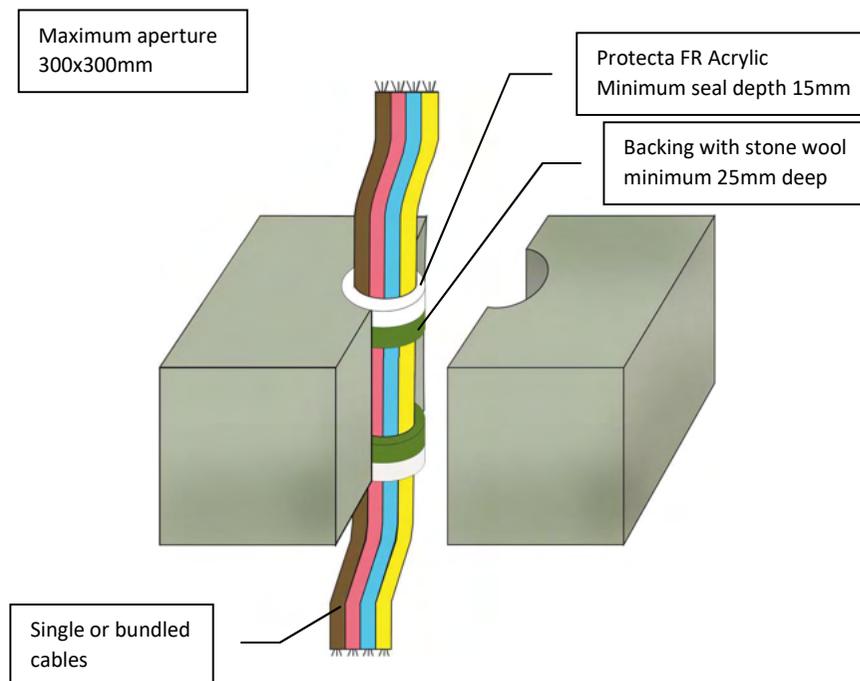
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Acrylic Protecta Mineral Fibre BIO
Application	Fire stopping of cables in rigid 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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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.



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/m³

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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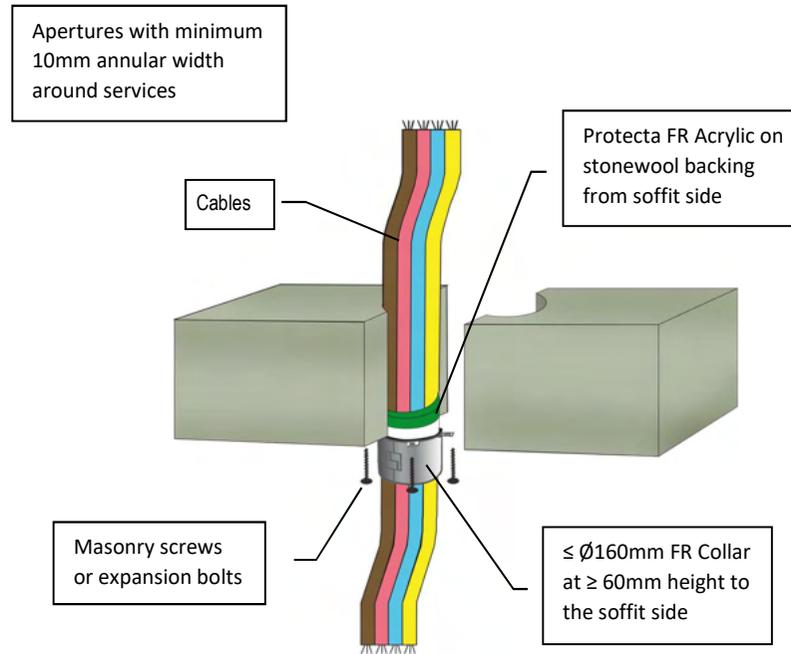
Signed and approved:

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m³

Fire & Sound classification

Cables $\leq \text{Ø}21\text{mm}$ in a bundle $\leq \text{Ø}160\text{mm}$
EI 180 & E 180

Sound reduction (seal only)
Rw 62dB

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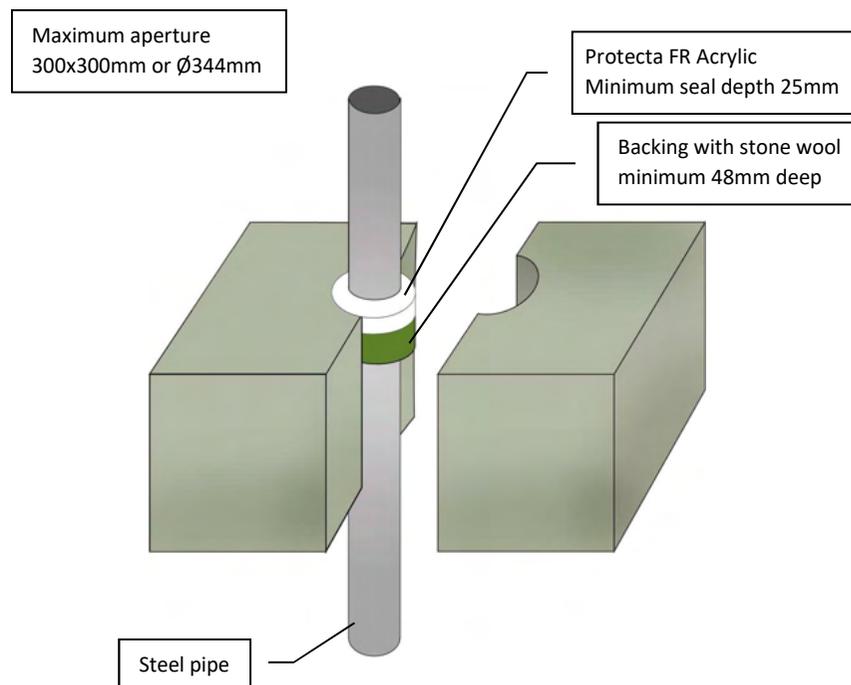
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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. 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.



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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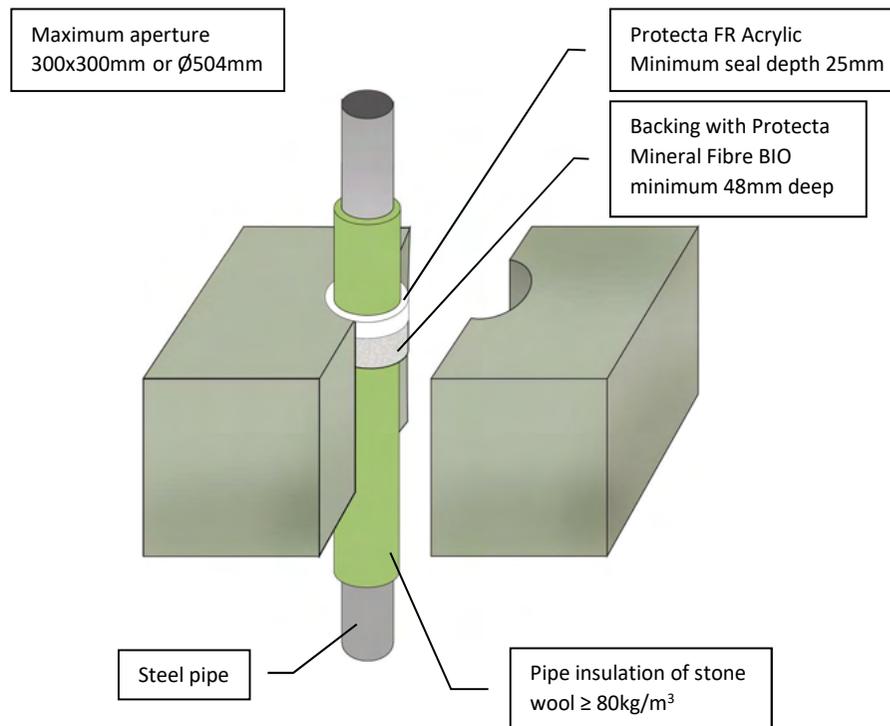
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Signed and approved:

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

Installation Instructions

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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.



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 ≤ Ø324mm with 20 - 80mm thick continuous pipe insulation EI 240 C/U & E 240	
Sound reduction (seal only) Rw 62dB	
	
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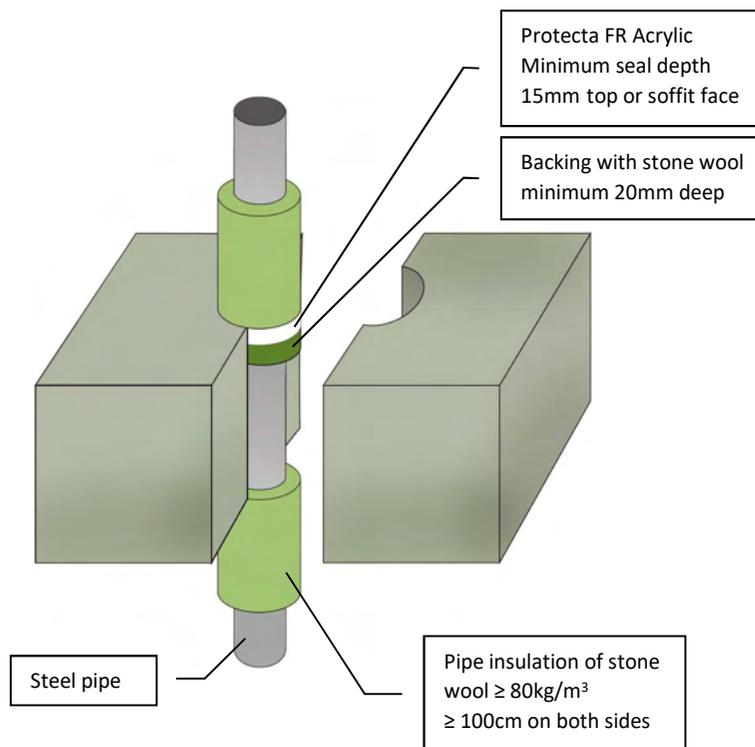
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Signed and approved:

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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.



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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

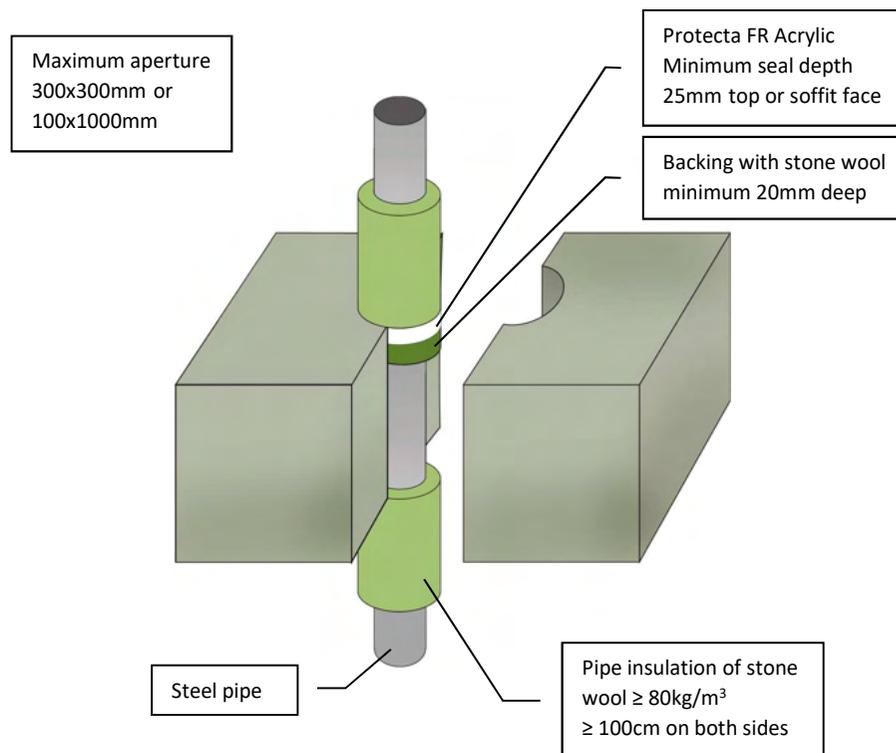
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Sheet size: **A4** Drawn date & no: 27/4/21

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. 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 21/0035

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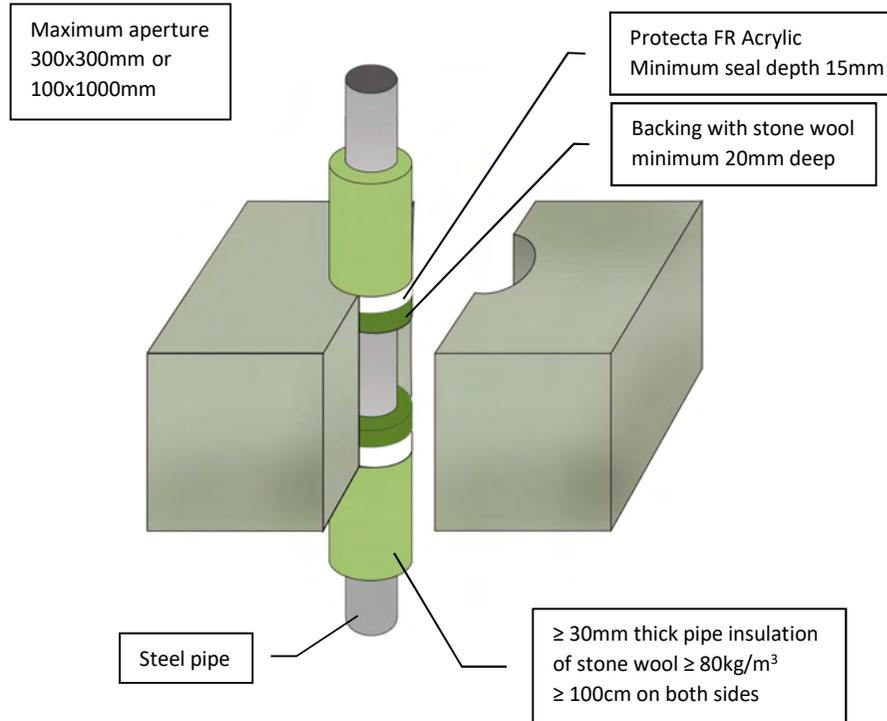
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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/m ³
Fire & Sound classification	
Steel pipe ≤ Ø54mm with ≥ 20mm thick pipe insulation EI 120 C/U & E 120	
Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation EI 90 C/U & E 120	
Sound reduction (seal only) Rw 62dB	
	
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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.



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 ≤ Ø219mm	EI 120 C/U & E 240
Sound reduction (seal only)	Rw 62dB

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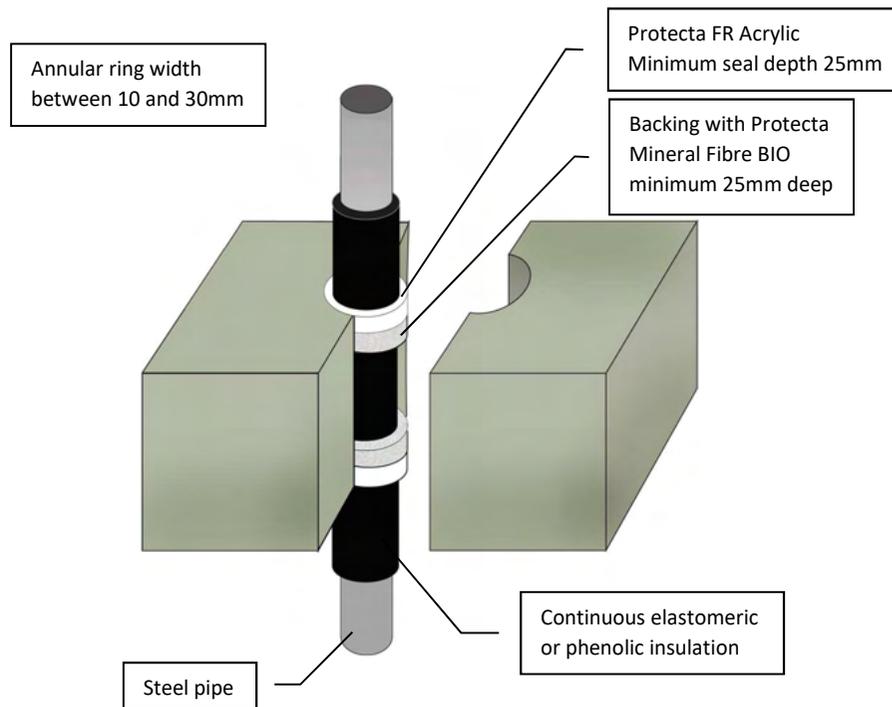
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Sheet size:	Drawn date & no:
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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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.



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 ≤ 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

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ETA 21/0035

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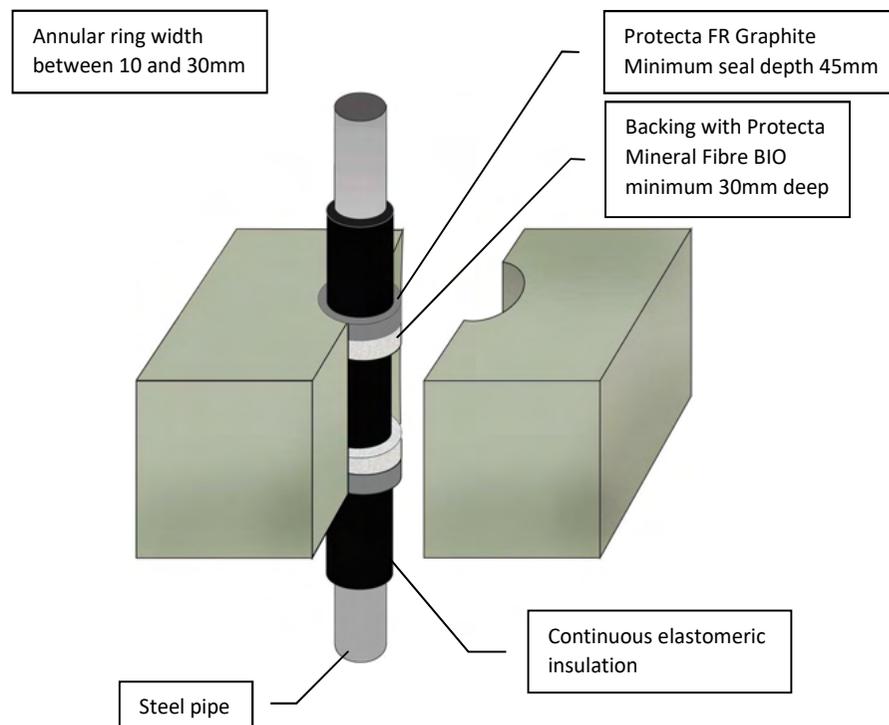
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Sheet size: **A4** Drawn date & no: 17/4/21

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.



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/m³.

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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ETA 21/0040

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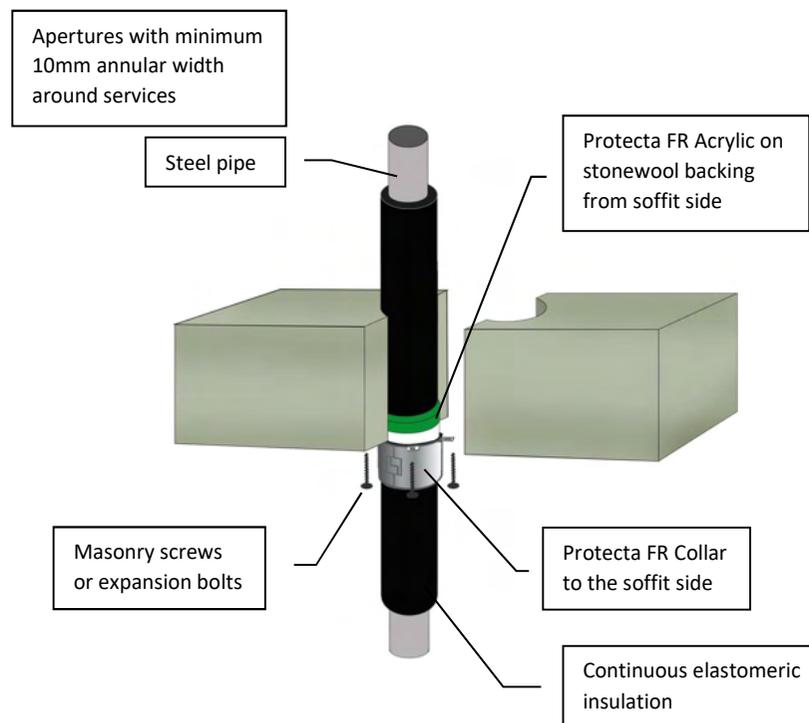
Signed and approved:

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 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}42\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}63\text{mm}$ FR Collar at 50mm height EI 120 C/C & E 120

Steel pipe $\leq \text{Ø}42\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}160\text{mm}$ at 60mm height EI 60 C/C & E 60

Steel pipe $\leq \text{Ø}54\text{mm}$ with 19mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height EI 60 C/C & E 120

Sound reduction (seal only) Rw 62dB

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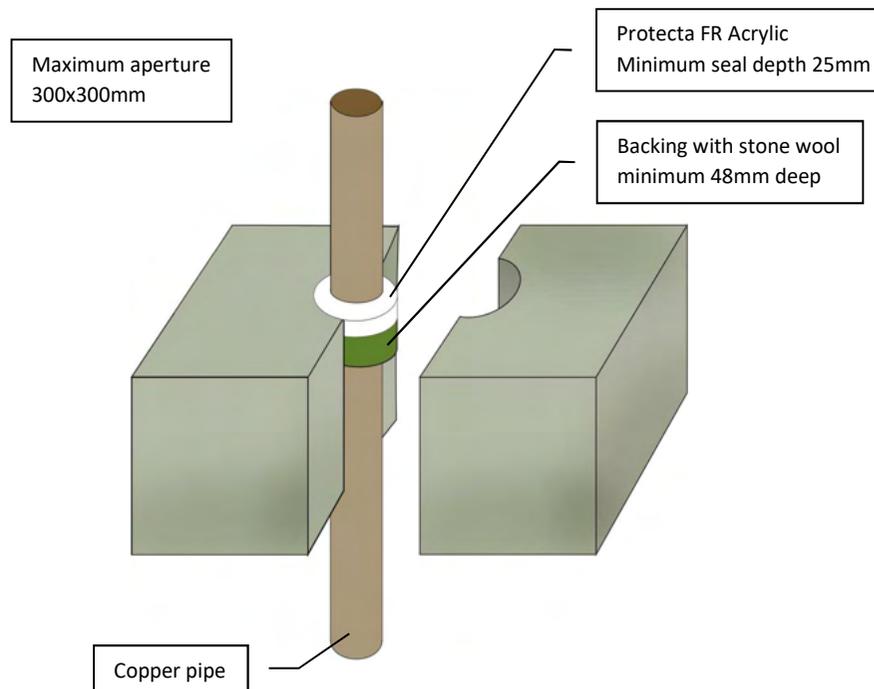
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Sheet size: **A4** Drawn date & no: 20/8/21

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.
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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.



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 ≤ 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



ETA 21/0035

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Email: post.uk@polyseam.com

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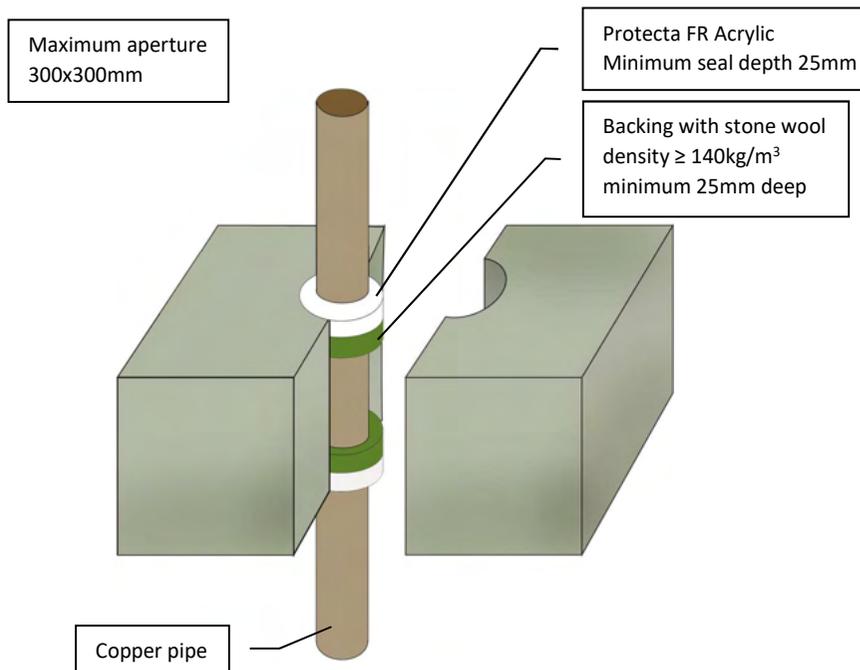
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Scale: **NTS** Drawn by: **K.B**

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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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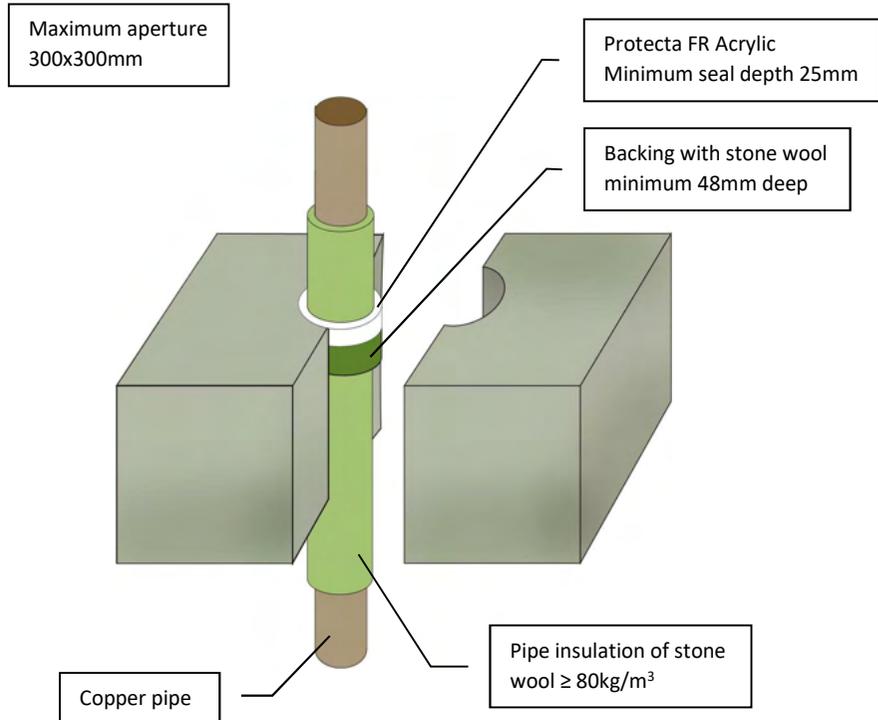
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Client:

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/m ³

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

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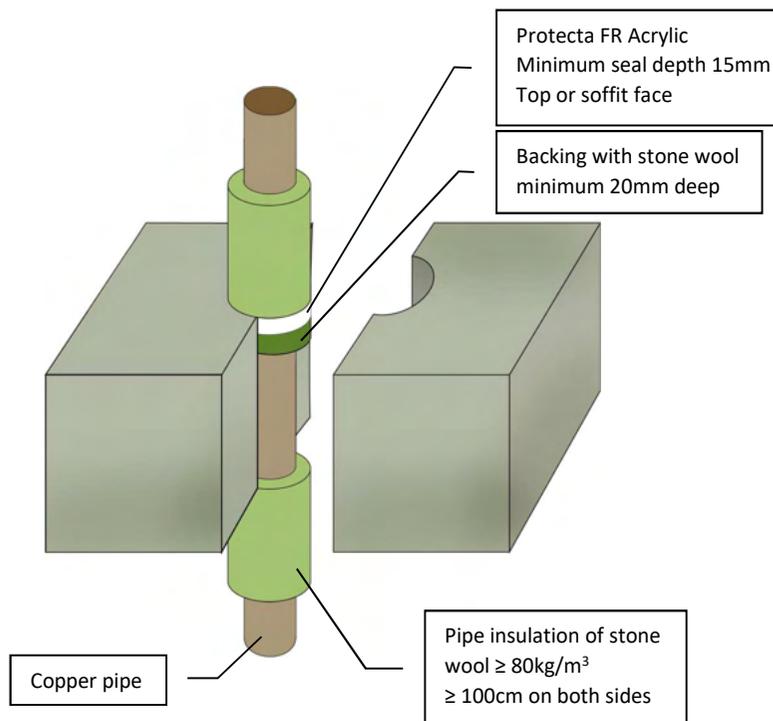
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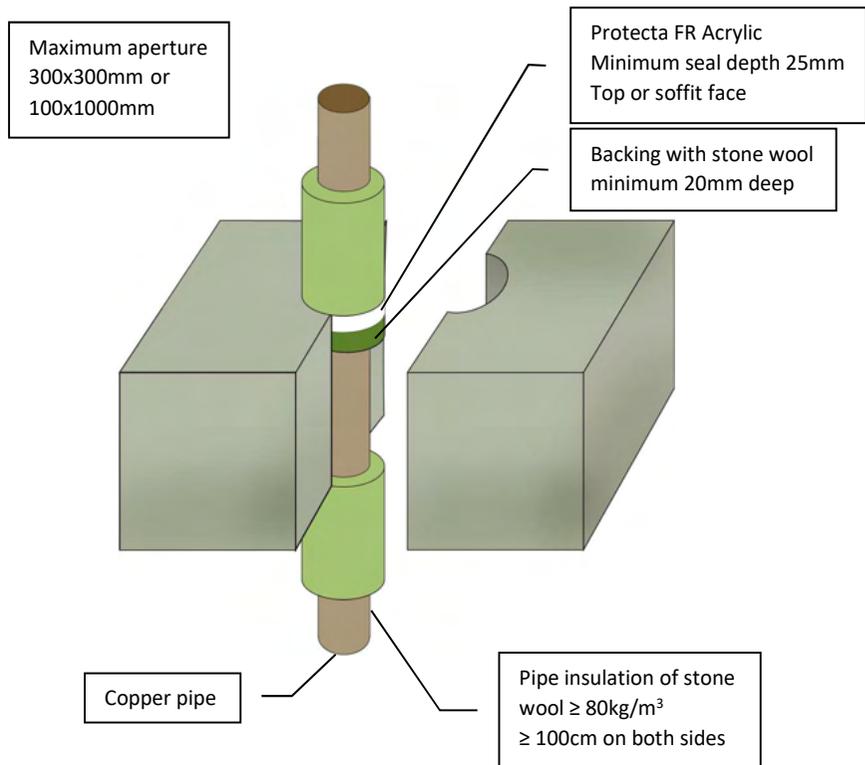
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Signed and approved:

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/m ³
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
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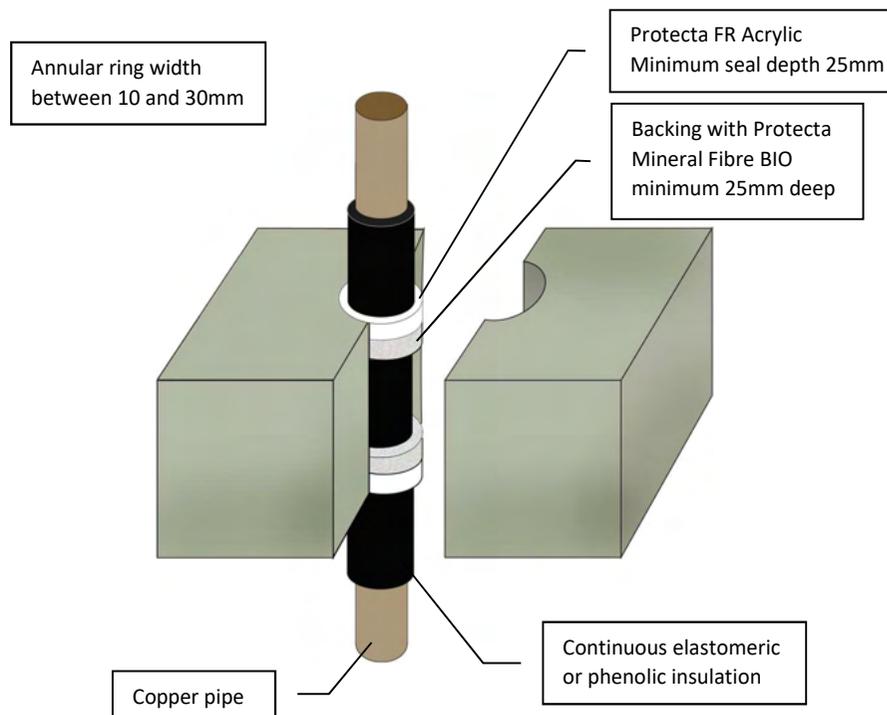
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Signed and approved:

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/m ³
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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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/m³

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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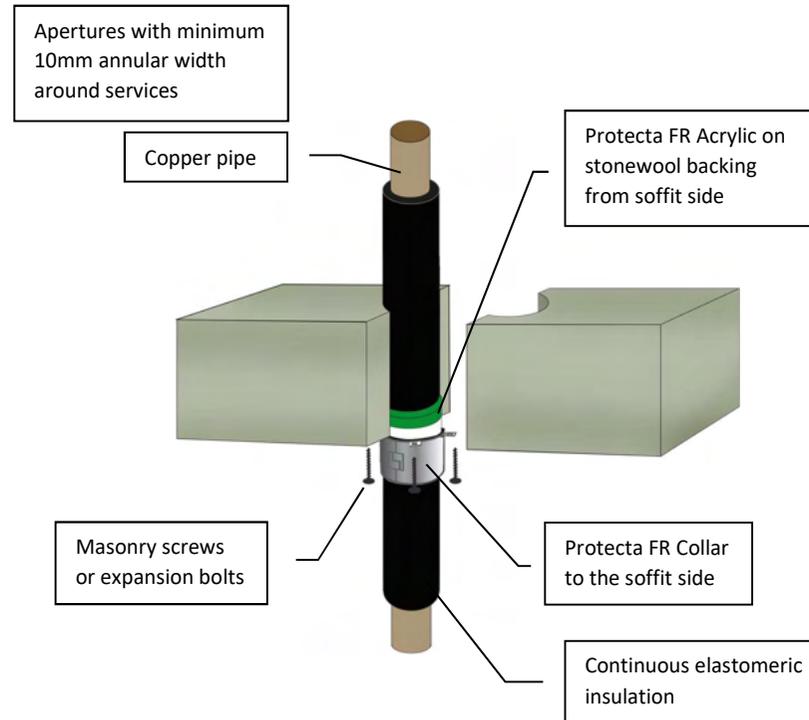
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Installation Instructions

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\leq \text{Ø}42\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}63\text{mm}$ FR Collar at 50mm height EI 120 C/C & E 120

Copper pipe $\leq \text{Ø}42\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}160\text{mm}$ at 60mm height EI 60 C/C & E 60

Copper pipe $\leq \text{Ø}54\text{mm}$ with 19mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height EI 60 C/C & E 120

Sound reduction (seal only) Rw 62dB

Protecta
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ETA 21/0070

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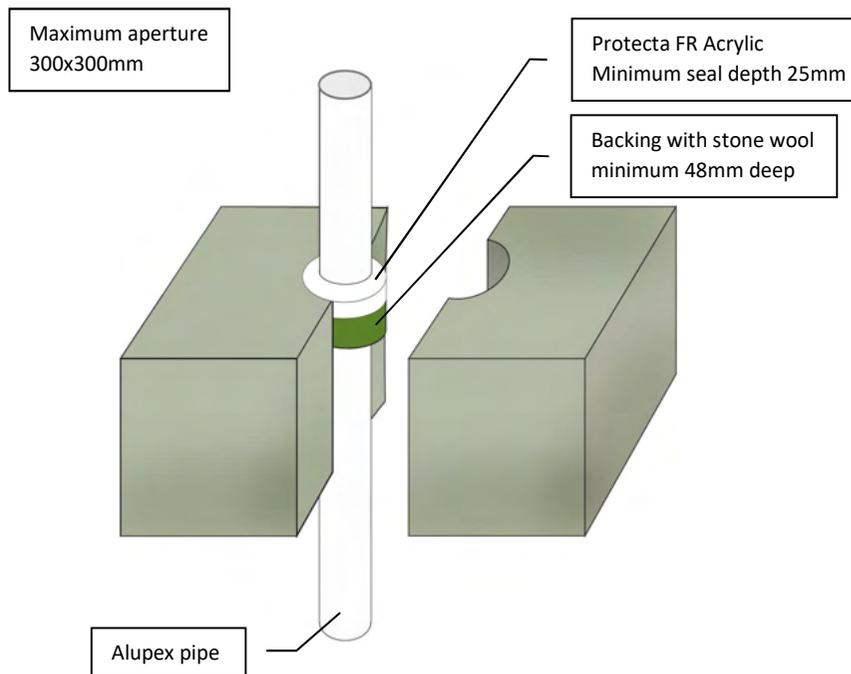
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0035



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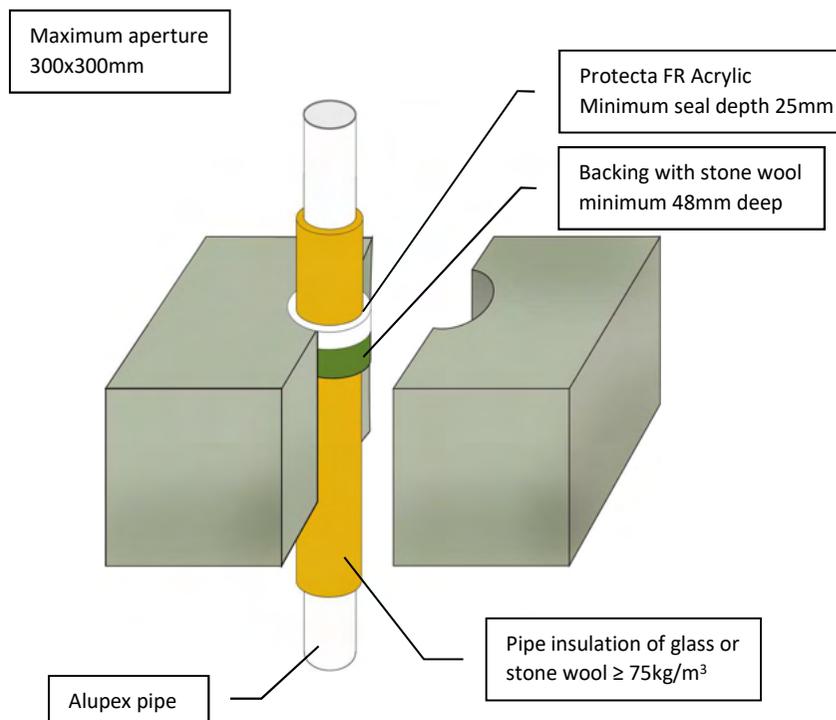
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Client:

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/m ³

Fire & Sound classification	
Alupex pipe ≤ Ø75mm with 20 - 50mm thick continuous pipe insulation	
	EI 120 C/C & E 180
Sound reduction (seal only)	
	Rw 62dB

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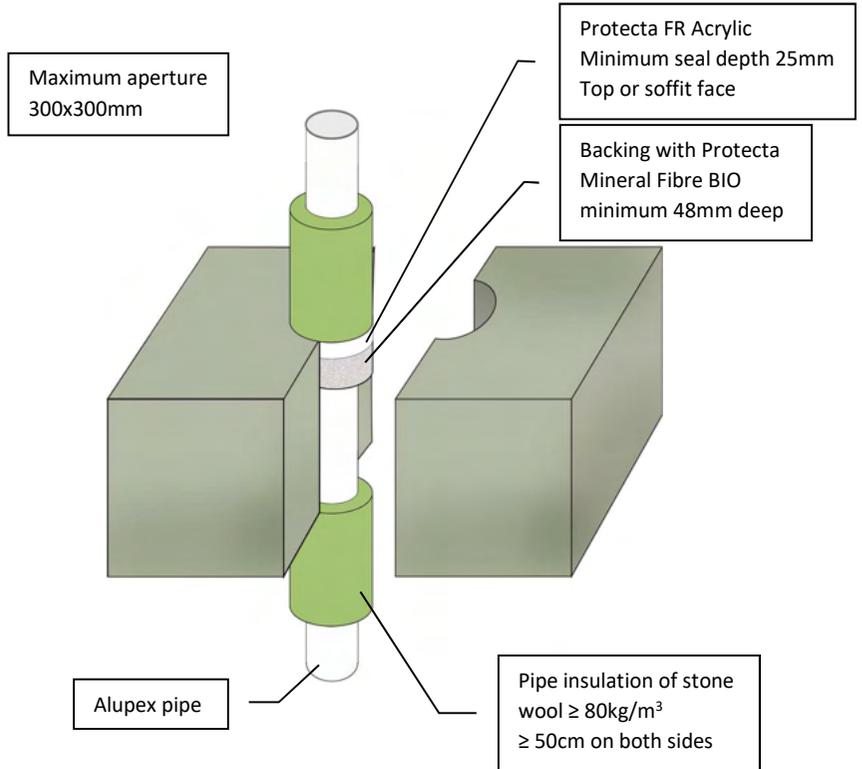
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Client:

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

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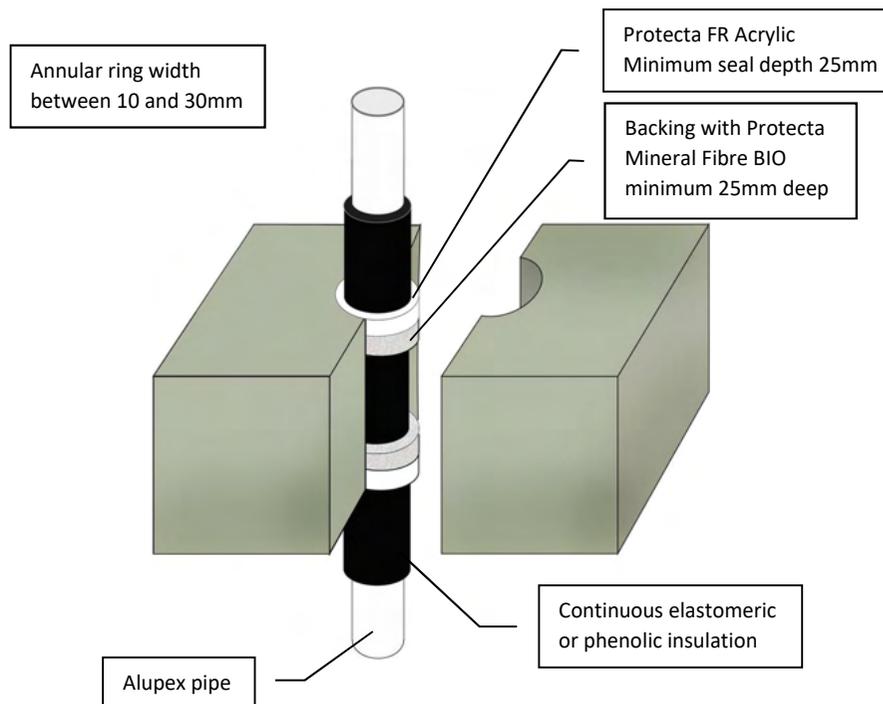
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Client:

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 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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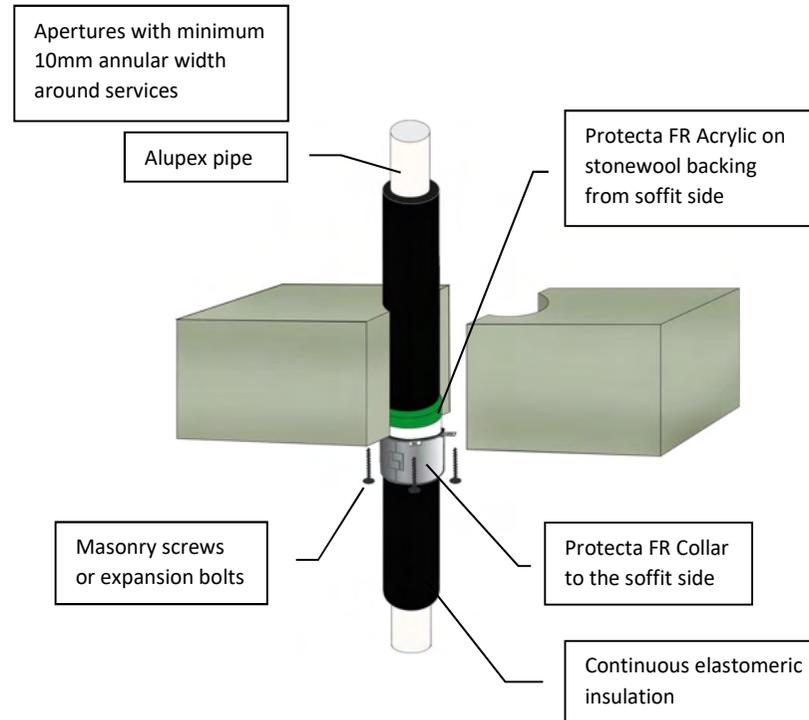
Signed and approved:

Sheet size: **A4** Drawn date & no: 10/8/19

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m³

Fire & Sound classification

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 9mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height EI 120 C/C & E 120

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 10 – 50mm thick pipe insulation with $\leq \text{Ø}110\text{mm}$ FR Collar at 50mm height, or $\text{Ø}125\text{-}200\text{mm}$ at 60mm height EI 90 C/C & E 120

Sound reduction (seal only) Rw 62dB

Protecta[®]
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ETA 21/0070

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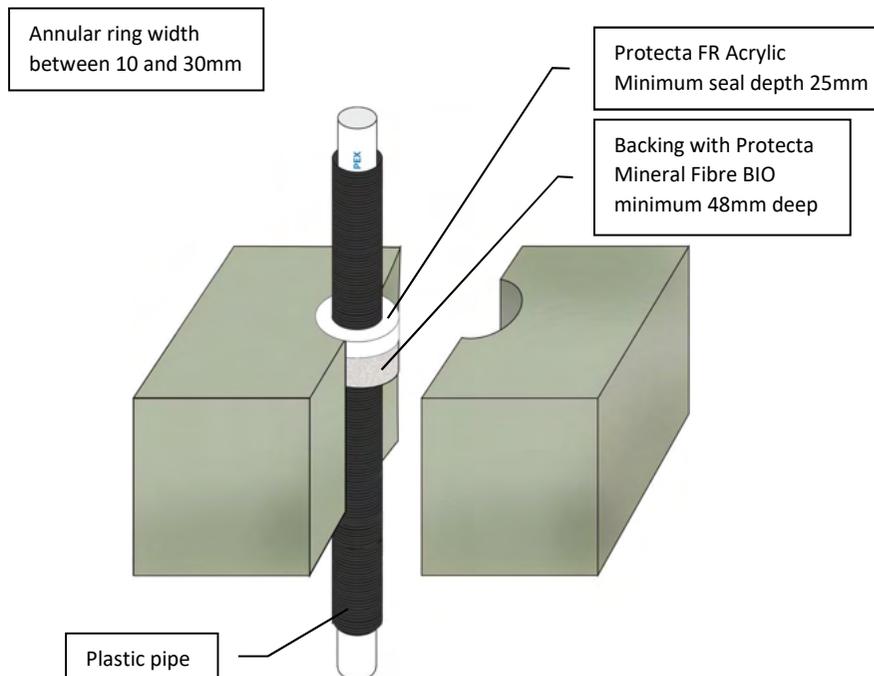
Signed and approved:

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

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

Installation Instructions

1. Before 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 21/0035

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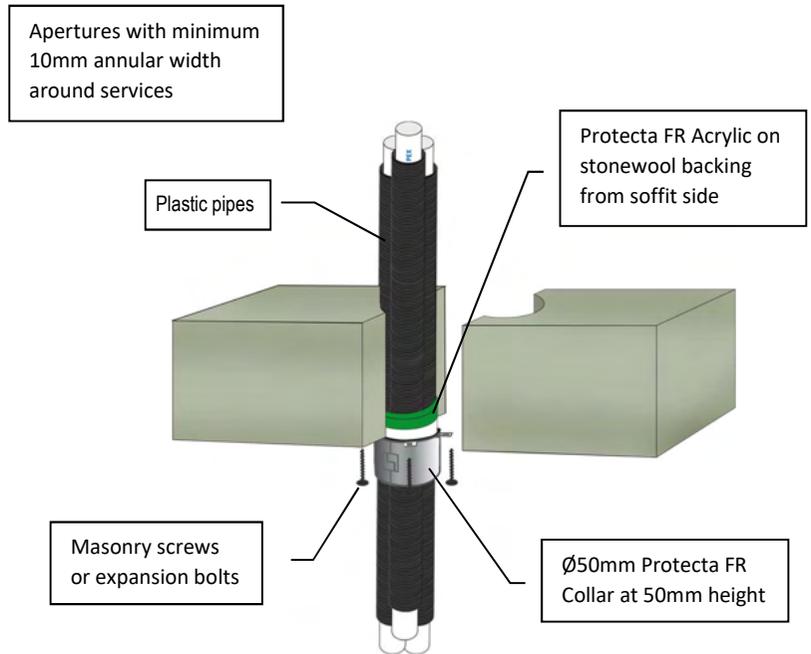
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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
 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	4/3/15
Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Client:

Job Title:

Products Protecta FR Collar
Protecta FR Acrylic
Stonewool

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/m³

Fire & Sound classification

PEX pipe-in-pipes $\leq \text{Ø}25\text{mm}$, single, or in a bundle $\leq \text{Ø}50\text{mm}$ EI 90 C/C & E 90

Sound reduction (seal only) Rw 62dB

Protecta[®]

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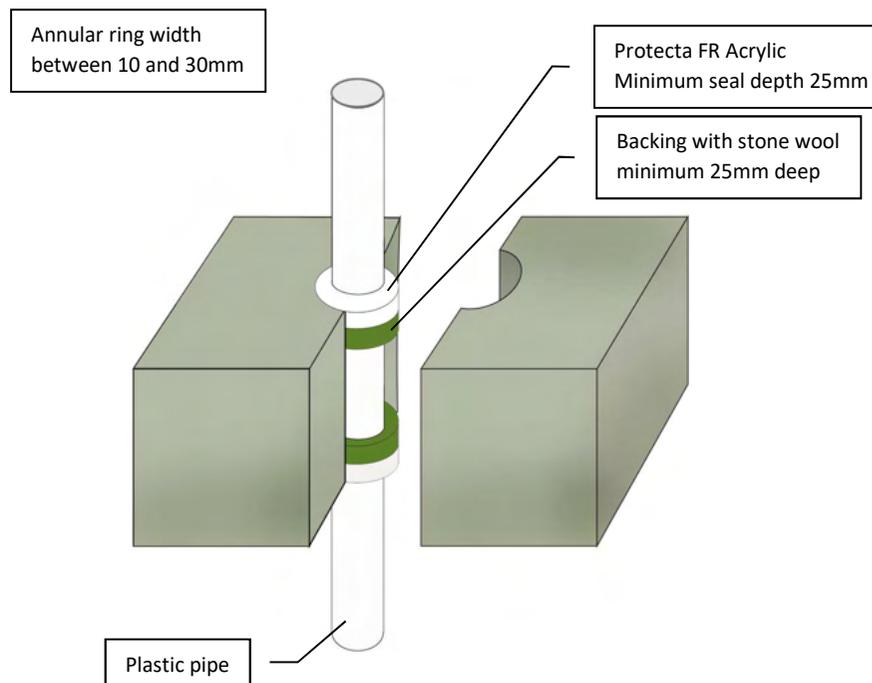
Signed and approved:

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 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.



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/m³

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 - 2.4mm EI 240 U/C & E 240

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

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

Sound reduction (seal only) Rw 62dB



ETA 21/0035

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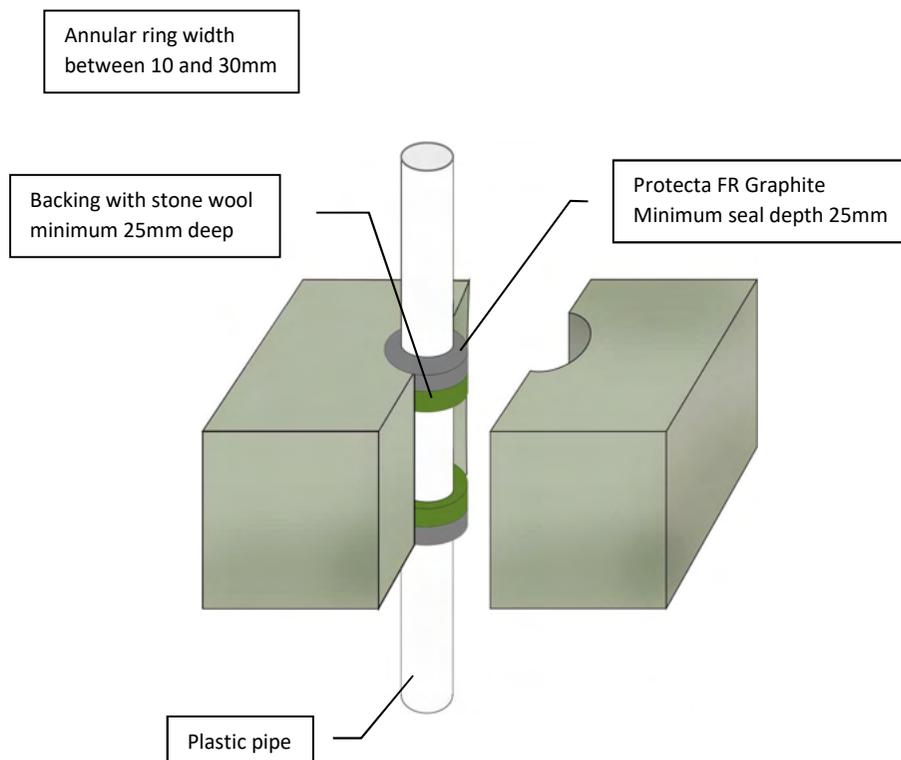
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	10/8/19
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.



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 ≤ 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



ETA 21/0040


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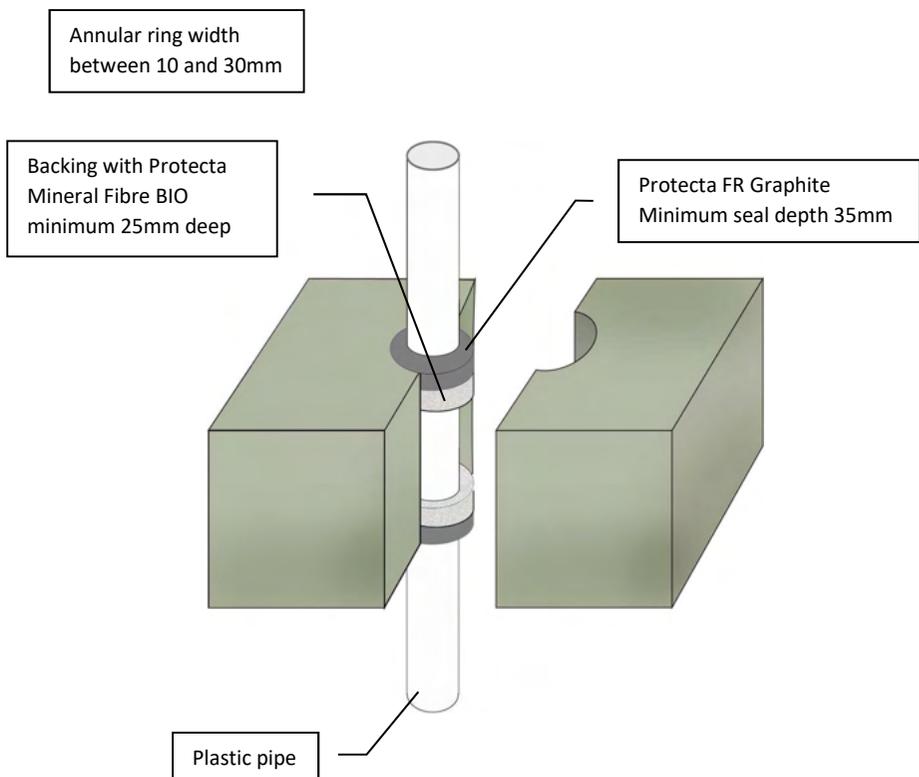
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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.



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 ≤ 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

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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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.

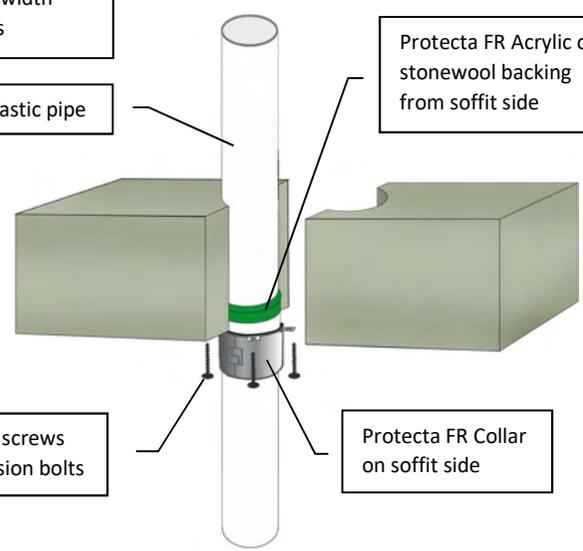
Apertures with minimum 10mm annular width around services

Plastic pipe

Protecta FR Acrylic on stonewool backing from soffit side

Masonry screws or expansion bolts

Protecta FR Collar on soffit side



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
≤ Ø400mm 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
Ø315x18.7mm PE, ABS & SAN+PVC	75mm	EI 240 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
≤ 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



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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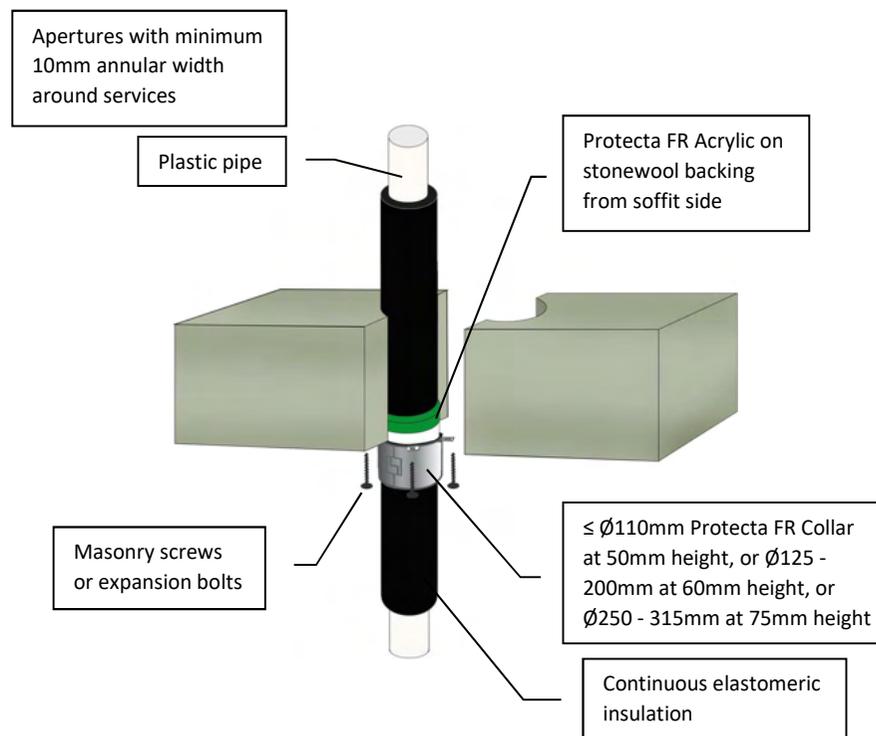
Signed and approved:

Sheet size: **A4** Drawn date & no: **20/8/19**

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m ³

Fire & Sound classification	
PE pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 9mm thick pipe insulation	EI 180 C/C & E 180
PE pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 10 – 50mm thick pipe insulation	EI 120 C/C & E 120
PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 9.1mm and 9mm thick pipe insulation	EI 120 C/C & E 180
PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 9.1mm and 10 – 50mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB



ETA 21/0070

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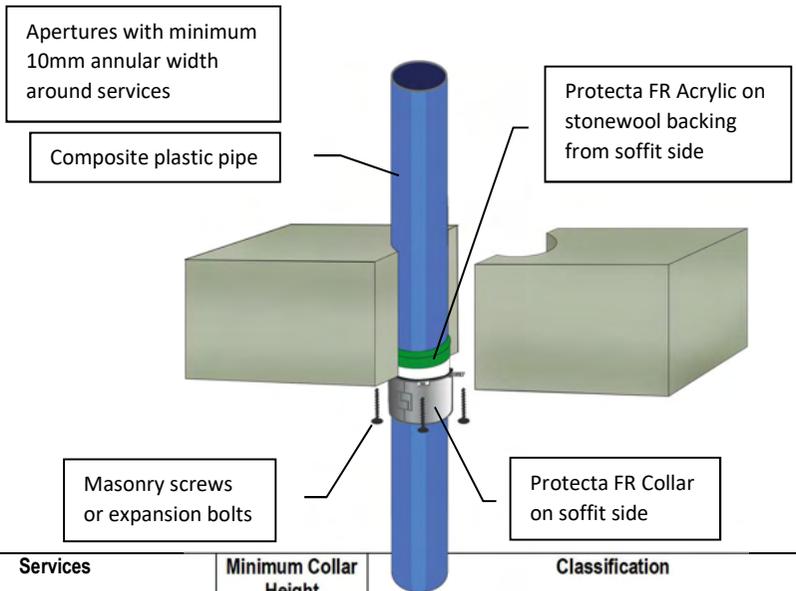
Signed and approved:


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Sheet size:	Drawn date & no:
A4	22/8/21
Scale:	Drawn by:
NTS	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 with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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



ETA 21/0070

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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

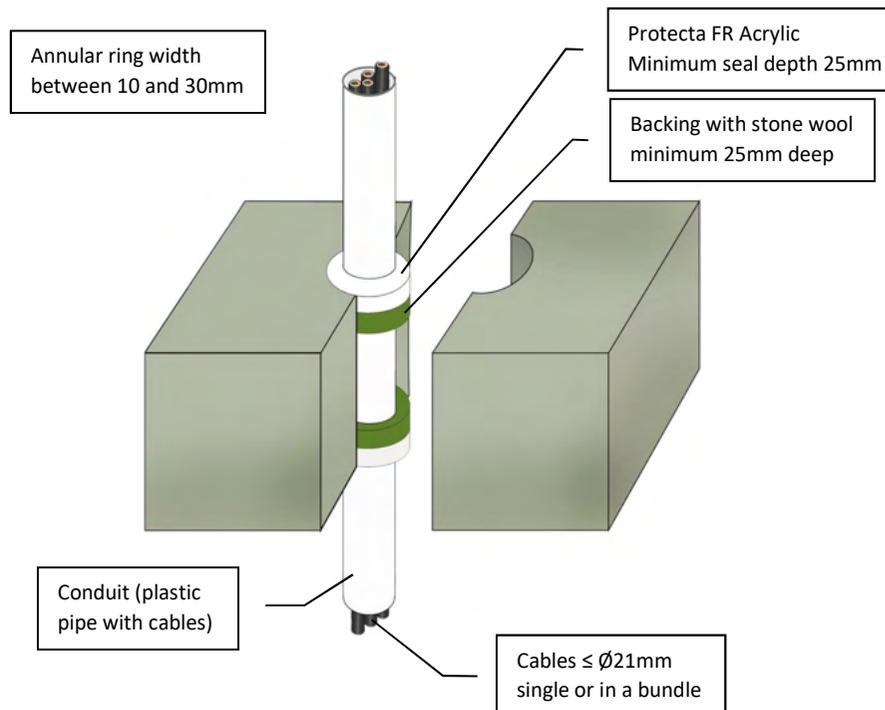
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Sheet size: **A4** Drawn date & no: **20/8/21**

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.



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/m³

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 – 2.4mm
EI 180 U/C & E 180

PP conduit/pipe ≤ Ø40mm with wall thickness 1.2 – 1.8mm
EI 180 U/C & E 180

Sound reduction (seal only) Rw 62dB



ETA 21/0035



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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

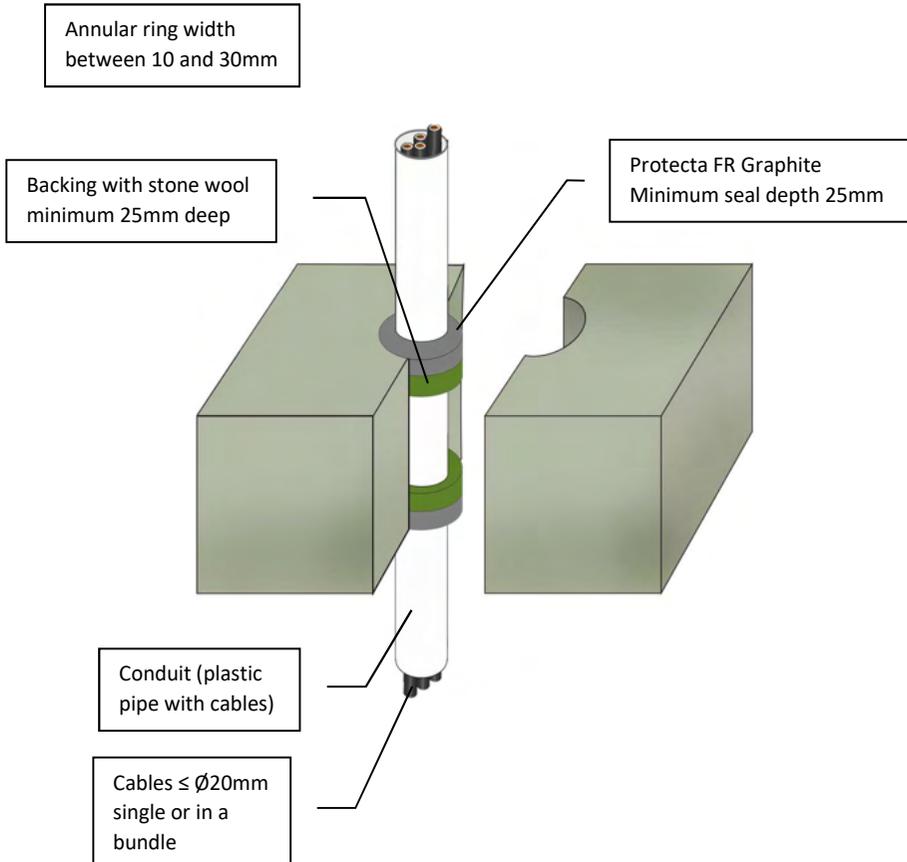
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Scale: **NTS** Drawn by: K.B

Installation Instructions

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 21/0040

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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/m³

Fire & Sound classification

PE, ABS or SAN+PVC conduit/pipe $\leq \varnothing 110\text{mm}$ with wall thickness 2.4 – 10.0mm	EI 60 U/C
PP conduit/pipe $\leq \varnothing 110\text{mm}$ with wall thickness 2.7mm	EI 90 U/C
PVC conduit/pipe $\leq \varnothing 110\text{mm}$ with wall thickness 1.8 – 6.6mm	EI 90 U/C
Sound reduction (seal only)	Rw 53dB

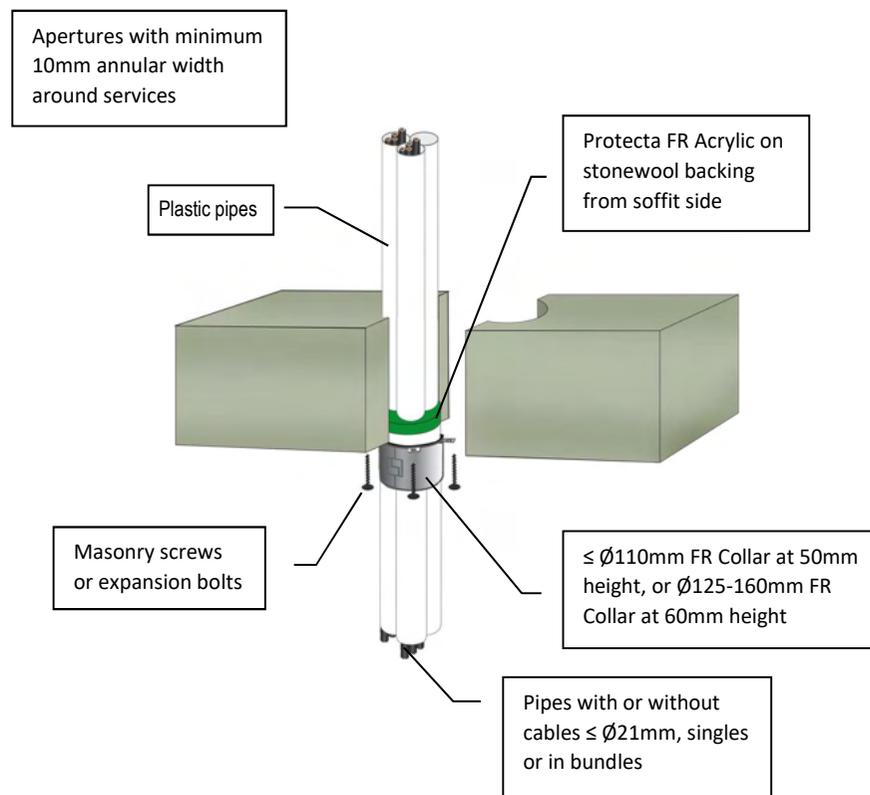
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Sheet size:	Drawn date & no:
A4	11/11/18

Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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/m ³

Fire & Sound classification	
PVC pipes $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.0 – 2.4mm	EI 90 C/U & E 90
PE & ABS pipes $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 2.0 – 3.0mm	EI 90 C/U & E 90
PP pipes $\leq \text{Ø}32\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 4.4mm	EI 90 C/U & E 90
Sound reduction (seal only)	Rw 62dB

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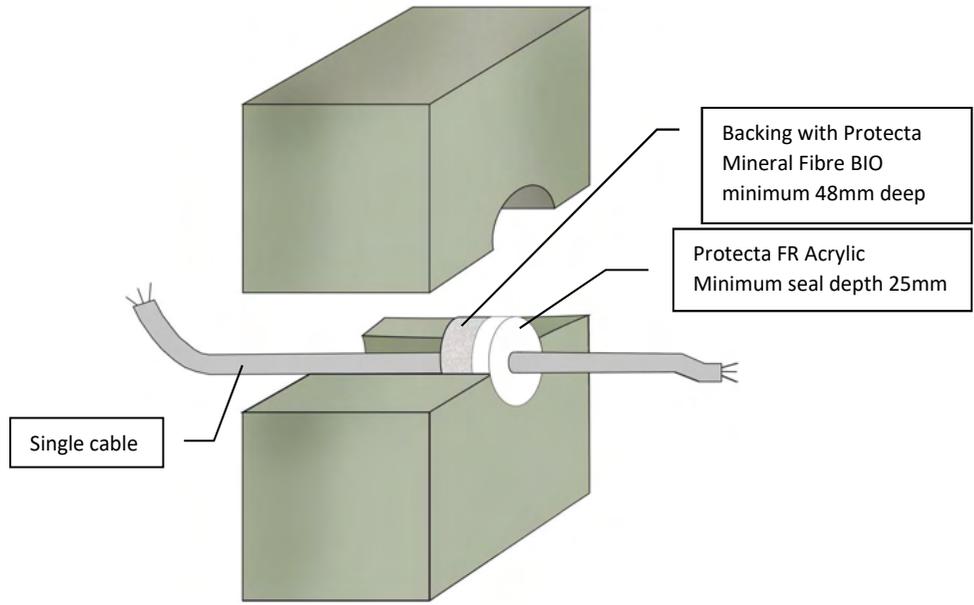
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Signed and approved:

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 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cable $\leq \text{Ø}21\text{mm}$ in maximum aperture 300x300mm	EI 60 & E 240
Cable $\leq \text{Ø}21\text{mm}$ in maximum aperture $\text{Ø}87\text{mm}$	EI 90 & E 240
Cable $\leq \text{Ø}21\text{mm}$ in maximum aperture 35x35mm or $\text{Ø} 36\text{mm}$	EI 120 & E 240
Sound reduction (seal only)	Rw 62 dB

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ETA 21/0035

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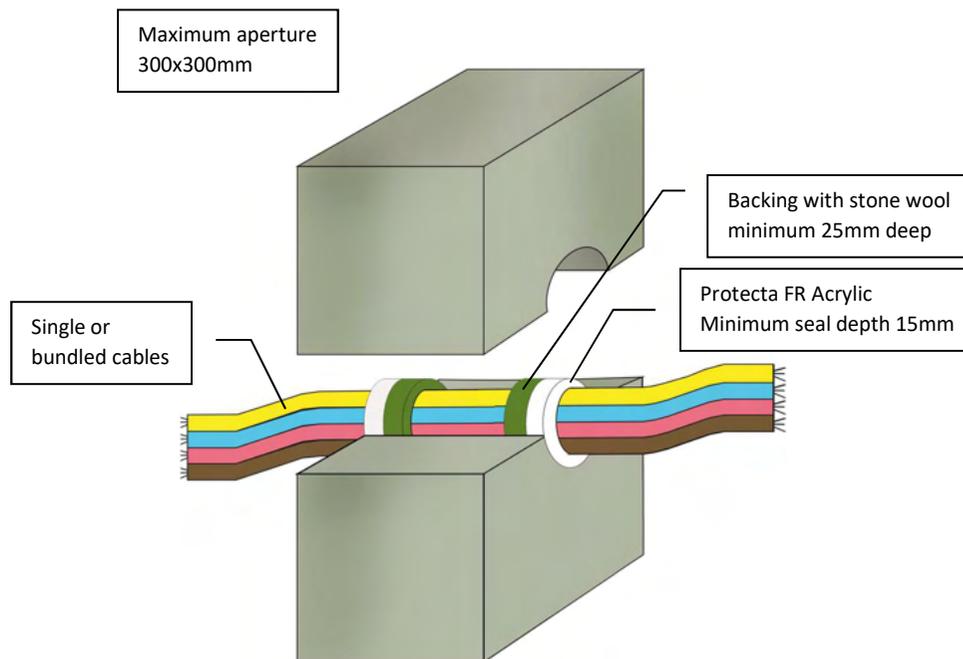
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Sheet size: **A4** Drawn date & no: **7/3/15**

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.



Client:

Job Title:

Products Protecta FR Acrylic
Stone wool

Application Fire stopping of cables in rigid walls

Construction Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cables $\leq \varnothing 21\text{mm}$ single or in a bundle $\leq \varnothing 100\text{mm}$ EI 120 & E 240

Cables $\leq \varnothing 80\text{mm}$ single or in a bundle $\leq \varnothing 100\text{mm}$ EI 60 & E 120

Sound reduction (seal only) Rw 62 dB

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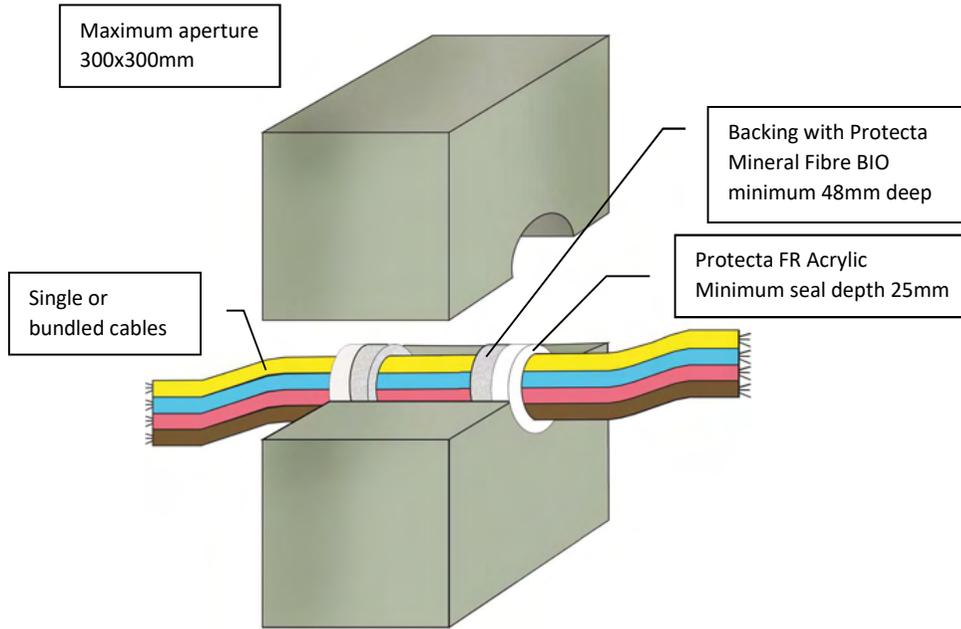
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Scale: **NTS** Drawn by: K.B

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cables $\leq \varnothing 21\text{mm}$ single or in a bundle $\leq \varnothing 100\text{mm}$ EI 240 & E 240

Cables $\leq \varnothing 80\text{mm}$ single or in a bundle $\leq \varnothing 100\text{mm}$ EI 60 & E 240

Sound reduction (seal only) Rw 62 dB

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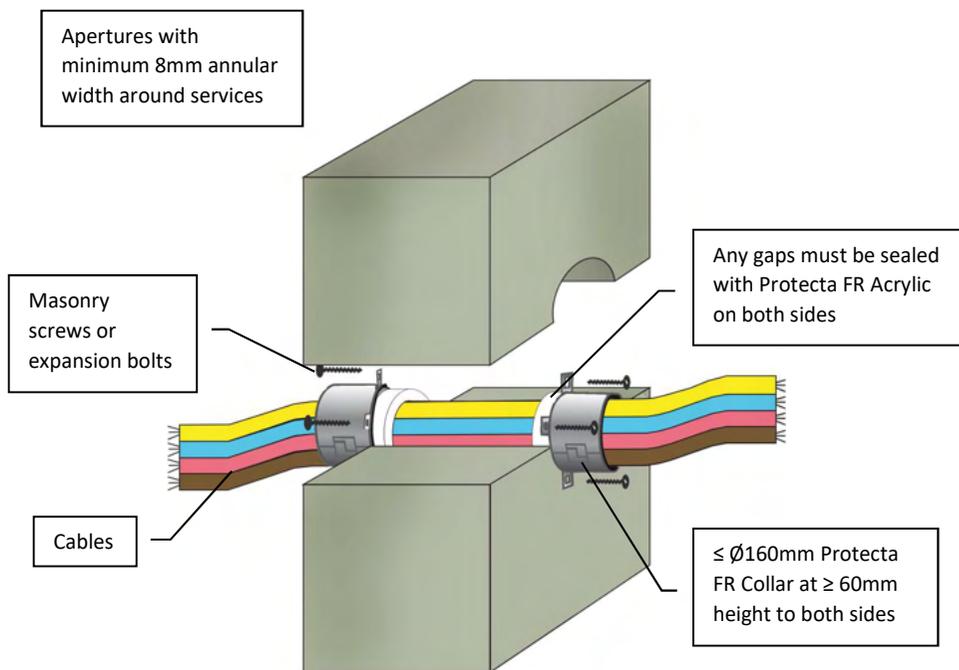
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Scale: **NTS** Drawn by: K.B

Installation Instructions

1. Before 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cables $\leq \text{Ø}80\text{mm}$ in a bundle $\leq \text{Ø}160\text{mm}$
EI 60 & E 120

Sound reduction (seal only)
Rw 62 dB

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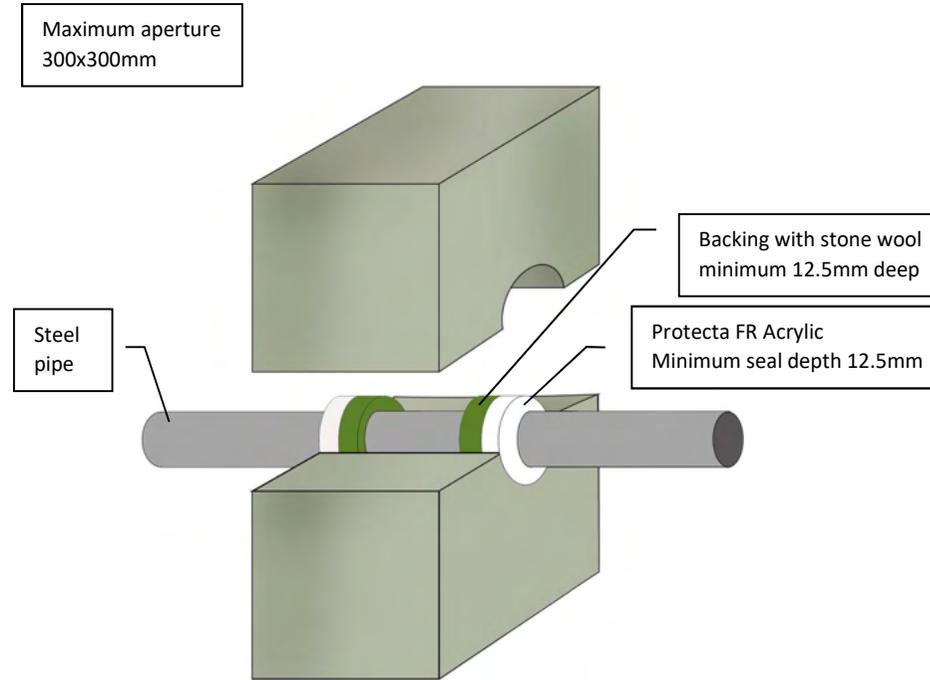
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Installation Instructions

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. 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
Steel pipe $\leq \text{Ø}30\text{mm}$ without pipe insulation	EI 90 C/C & E 90
Sound reduction (seal only)	Rw 62dB

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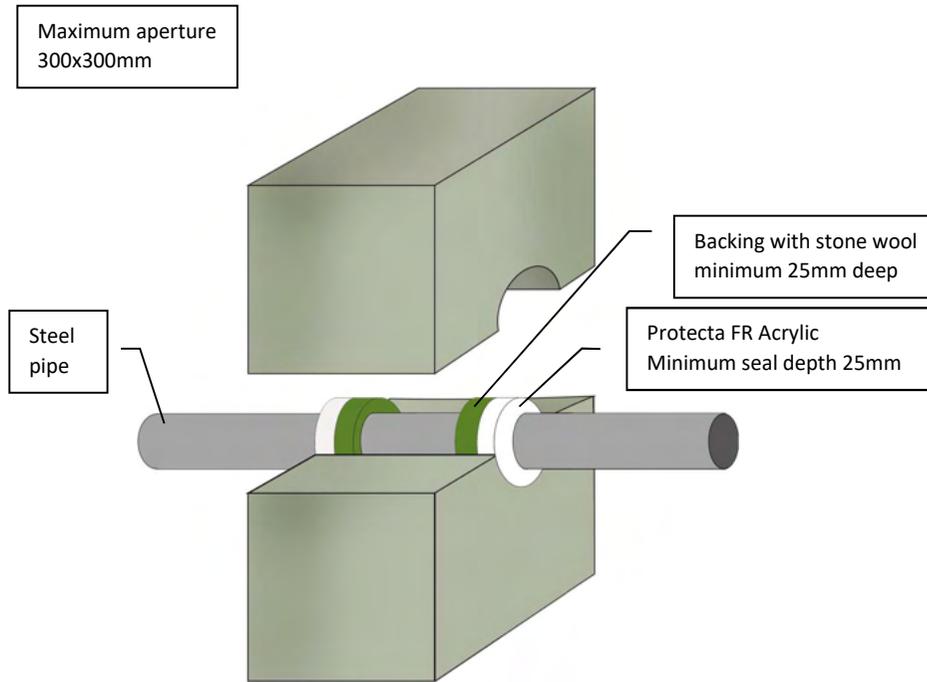
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A4	8/4/18

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. 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\varnothing 22 - \varnothing 30\text{mm}$ without pipe insulation

EI 120 C/C & E 120

Sound reduction (seal only)

Rw 62dB

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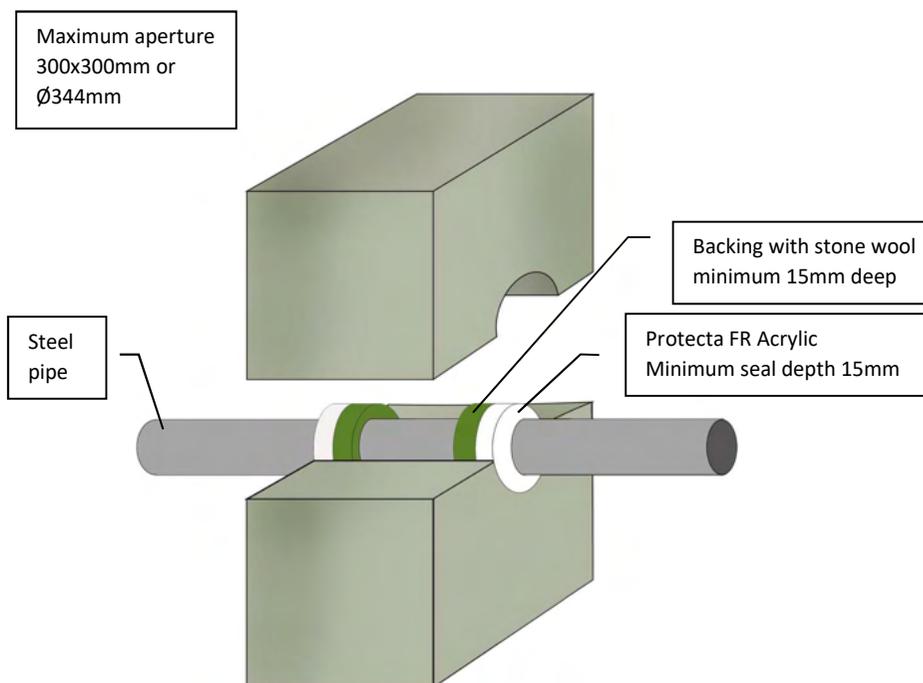
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Installation Instructions

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. 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}324\text{mm}$ without pipe insulation

E 120 C/U

Sound reduction (seal only)

Rw 62dB

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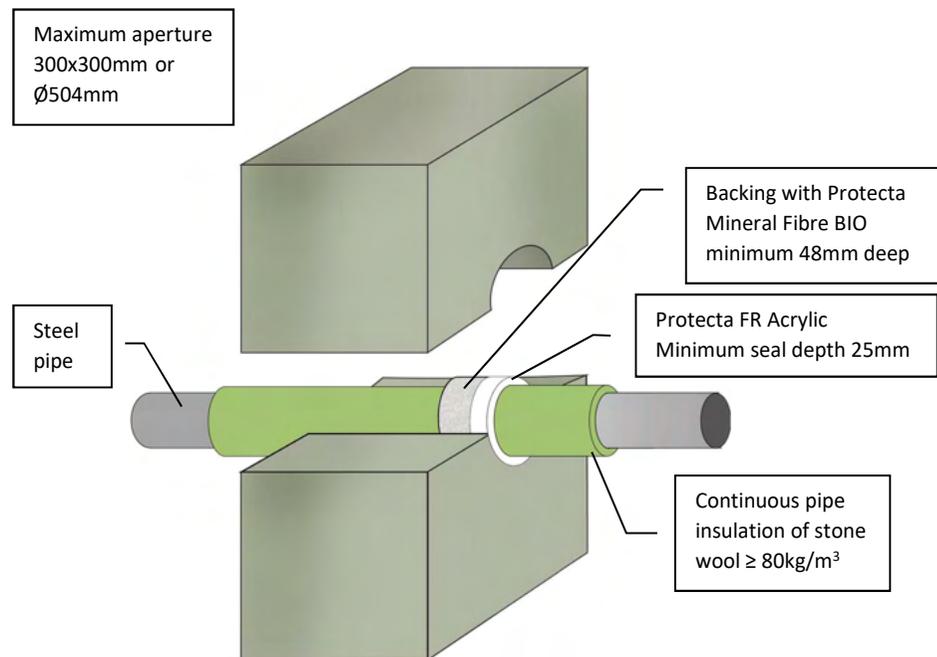
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Scale: **NTS** Drawn by: K.B

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.



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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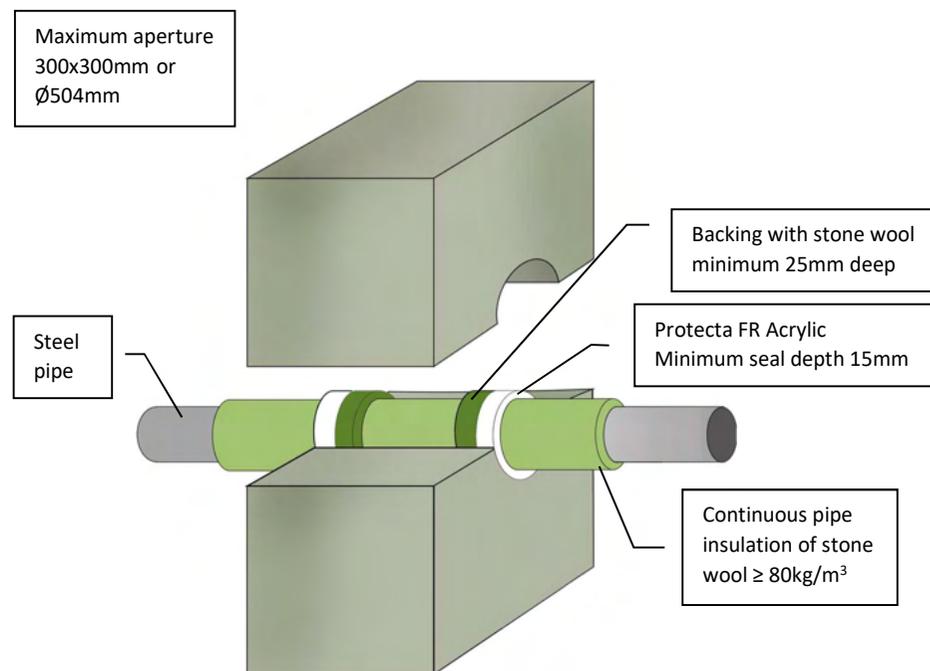
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Sheet size: **A4**
Drawn date & no: 9/4/18

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. 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.



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 ≤ Ø324mm with 30-80mm thick 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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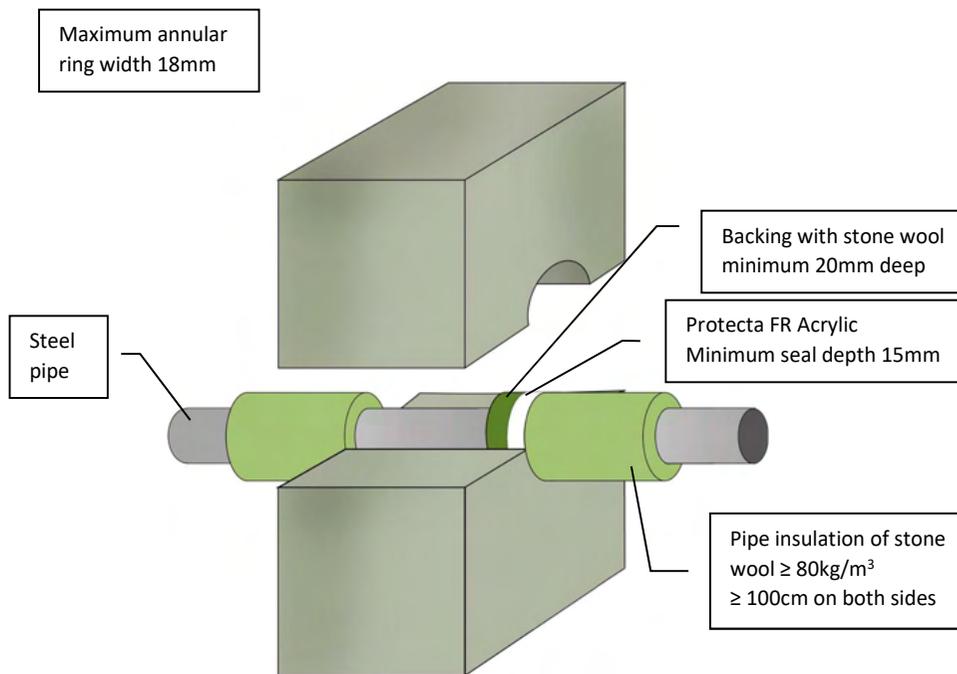
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Sheet size: **A4** Drawn date & no: 20/4/15

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

Installation Instructions

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5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \varnothing 40\text{mm}$ with $\geq 20\text{mm}$ thick pipe insulation
EI 240 C/U & E 240

Steel pipe $\leq \varnothing 219\text{mm}$ with $\geq 30\text{mm}$ thick pipe insulation
EI 90 C/U & E 180

Sound reduction (seal only)
Rw 62dB

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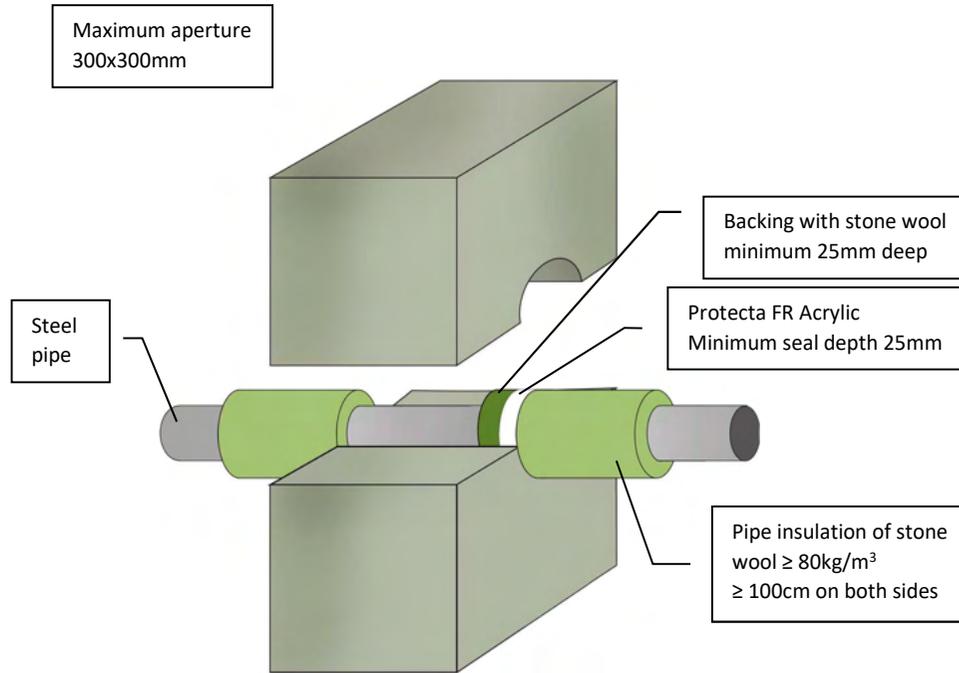
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Scale: **NTS** Drawn by: K.B

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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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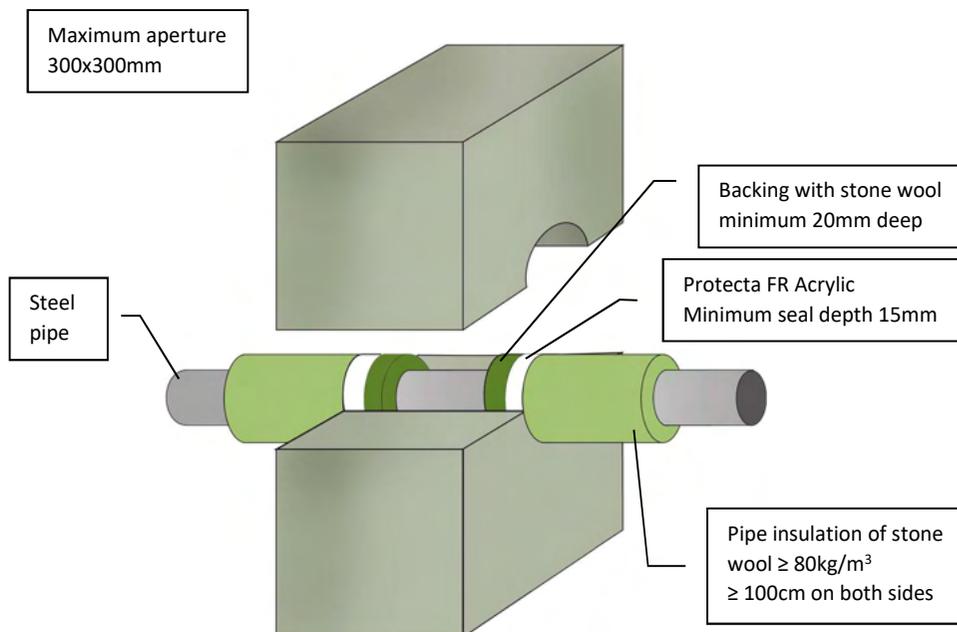
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Client:

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 ≤ Ø219mm with ≥ 30mm thick pipe insulation

EI 120 C/U & E 240

Sound reduction (seal only)

Rw 62dB

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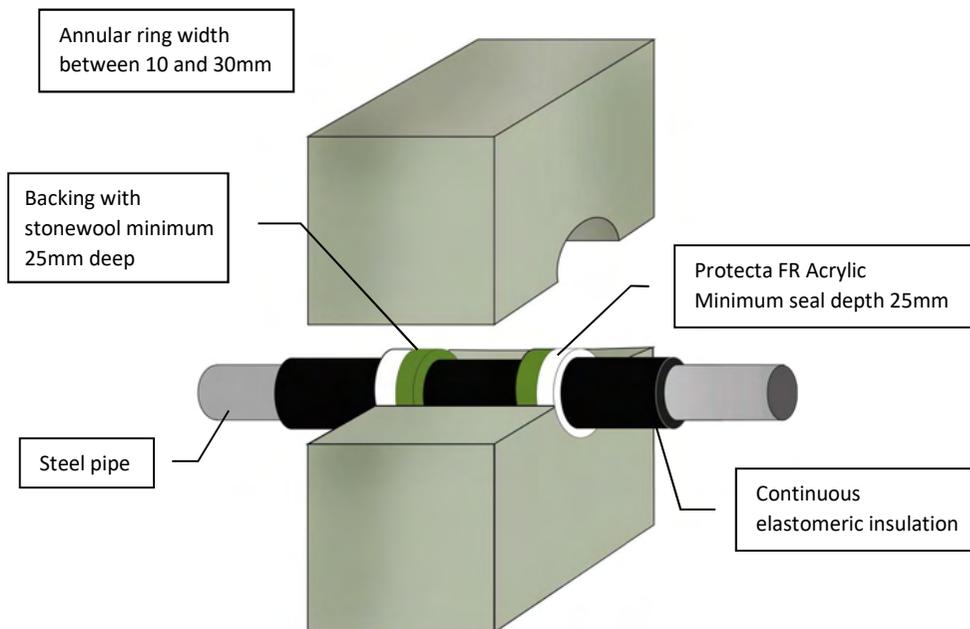
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Client:

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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}22\text{mm}$ with 13mm thick pipe insulation	EI 180 C/U & E 240
Steel pipe $\leq \text{Ø}40\text{mm}$ with 13 – 19mm thick pipe insulation	EI 120 C/C & E 120
Steel pipe $\leq \text{Ø}114\text{mm}$ with 13 – 25mm thick pipe insulation	EI 90 C/U & E 120
Steel pipe $\leq \text{Ø}114\text{mm}$ with 26 – 50mm thick pipe insulation	EI 60 C/U & E 60
Steel pipe $\leq \text{Ø}165\text{mm}$ with 13 – 25mm thick pipe insulation	EI 60 C/U & E 60
Sound reduction (seal only)	Rw 62dB



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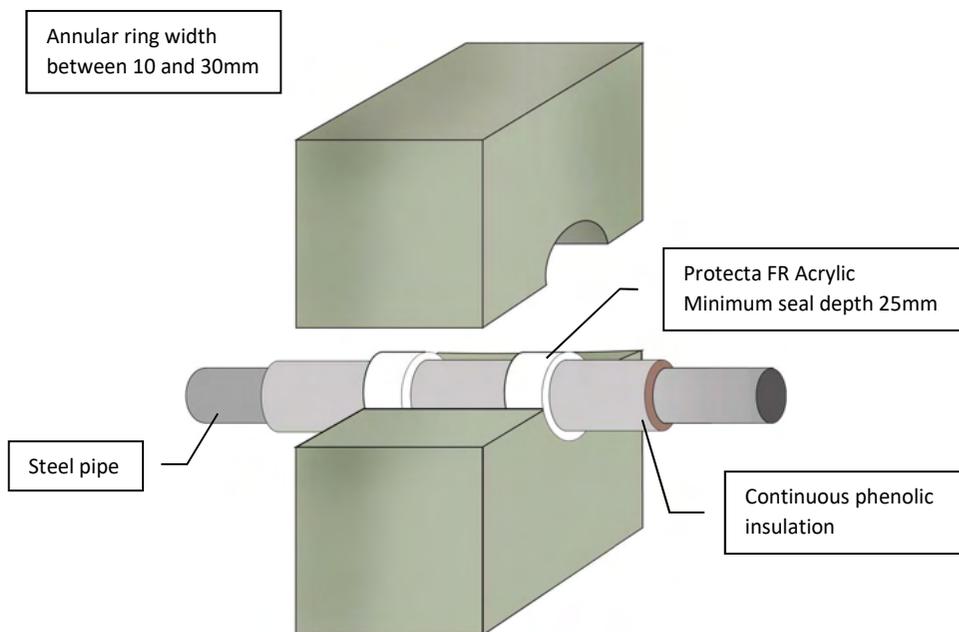
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

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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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipe $\leq \text{Ø}16\text{mm}$ with 15mm thick pipe insulation EI 90 C/U & E 90

Steel pipe $\leq \text{Ø}273\text{mm}$ with 25mm thick pipe insulation EI 60 C/U & E 90

Steel pipe $\leq \text{Ø}273\text{mm}$ with 26 – 100mm thick pipe insulation EI 60 C/U & E 60

Sound reduction (seal only) Rw 62dB

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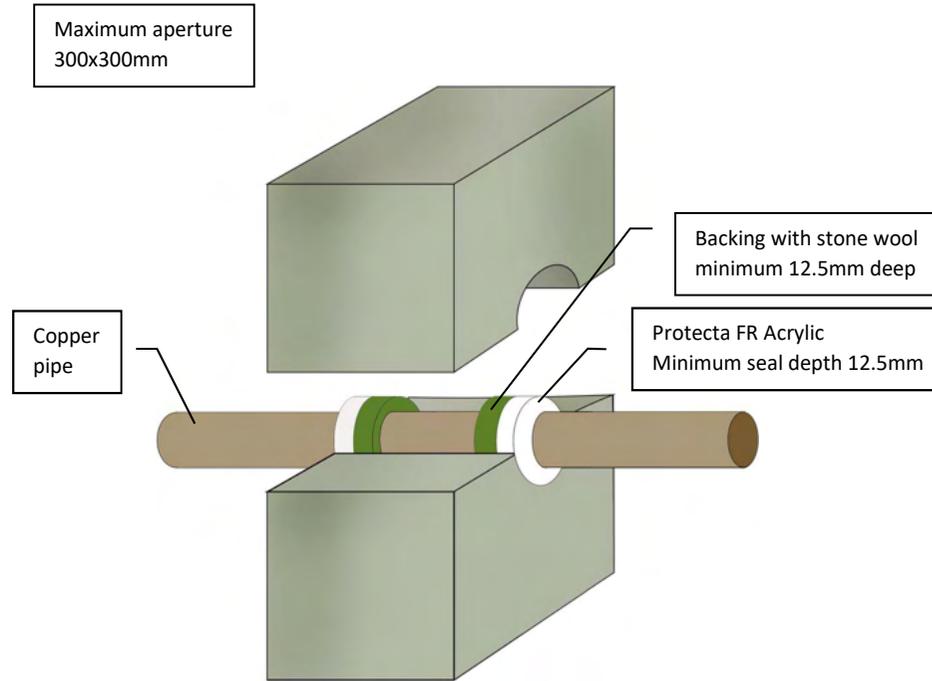
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Scale: **NTS** Drawn by: K.B

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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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
Copper pipe $\leq \text{Ø}12\text{mm}$ without pipe insulation	EI 60 C/C & E 90
Copper pipe $\text{Ø}13\text{-}\text{Ø}22\text{mm}$ without pipe insulation	EI 30 C/C & E 90
Sound reduction (seal only)	Rw 62dB

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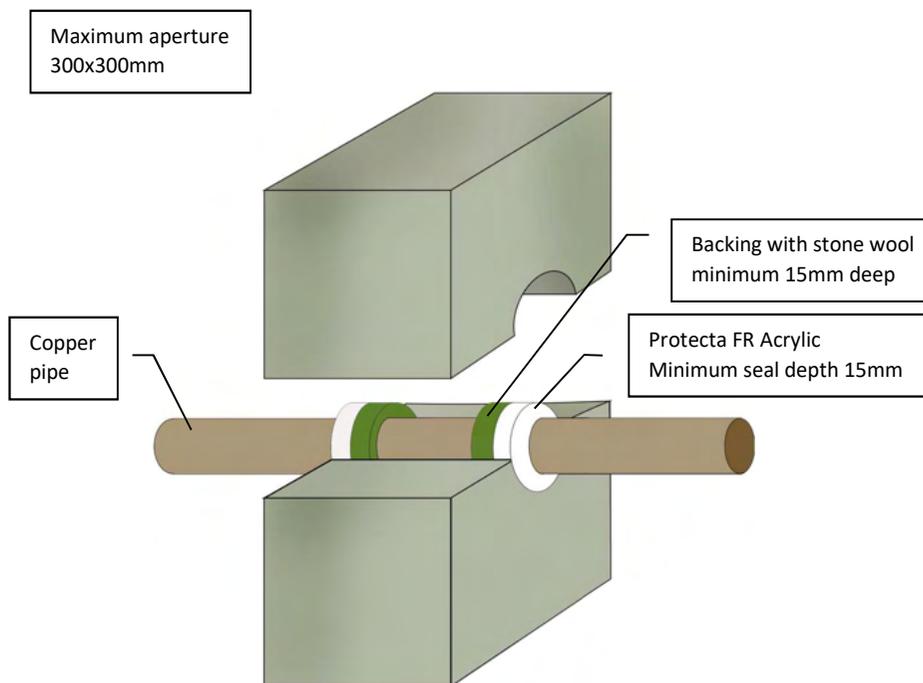
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Signed and approved:

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

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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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}54\text{mm}$ without pipe insulation
E 120 C/C

Sound reduction (seal only)
Rw 62dB

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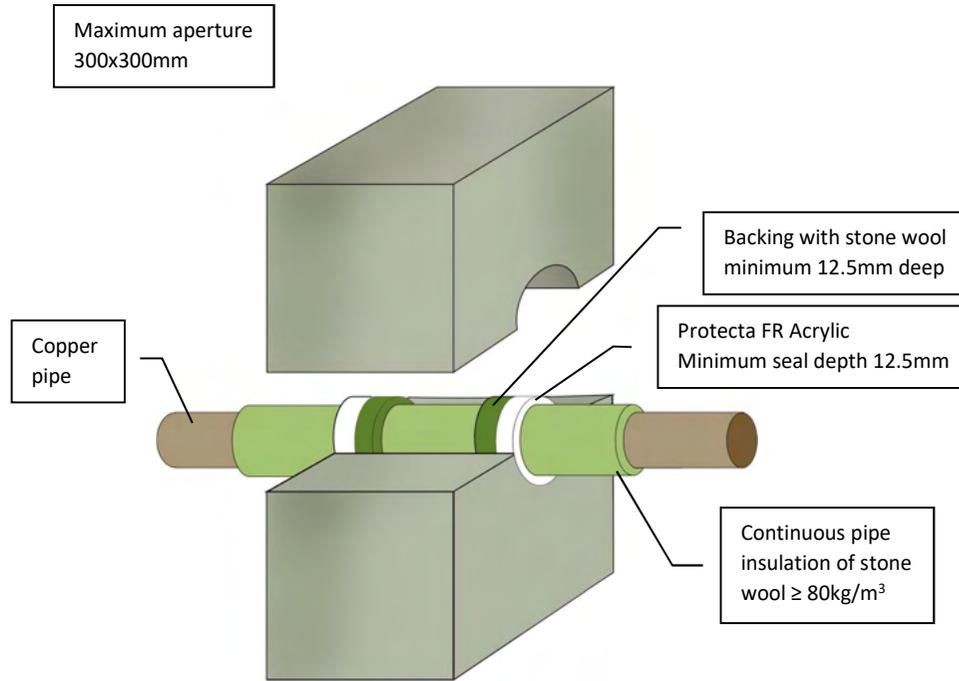
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6. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
Copper pipe $\leq \text{Ø}54\text{mm}$ with 20-80mm thick pipe insulation	EI 60 C/C & E 120
Sound reduction (seal only)	Rw 62dB

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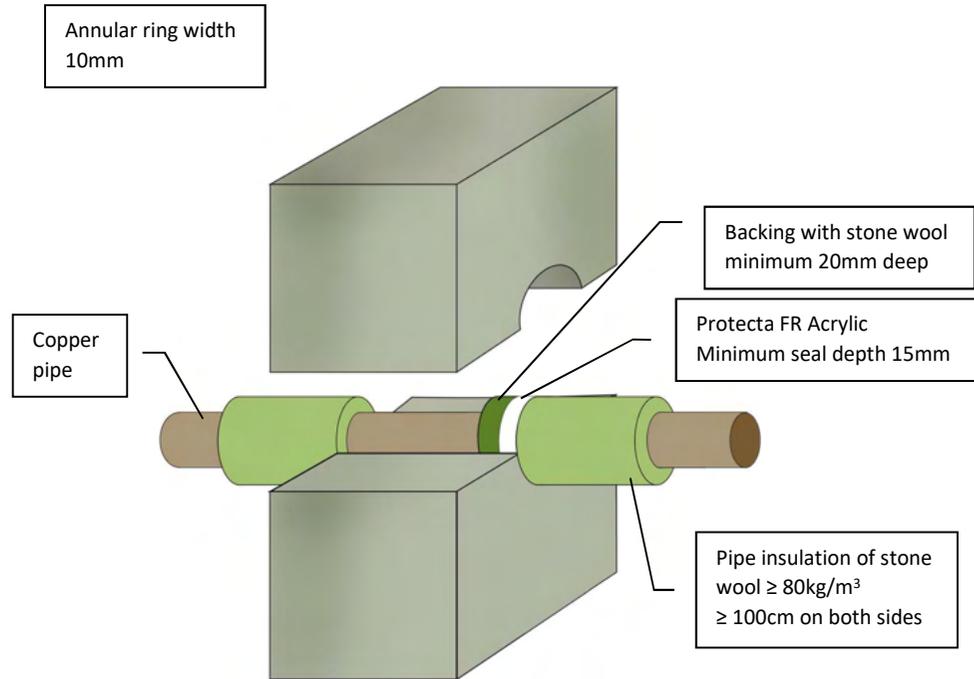
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Client:

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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}12\text{mm}$ with $\geq 20\text{mm}$ thick pipe insulation
EI 240 C/U & E 240

Copper pipe $\leq \text{Ø}54\text{mm}$ with $\geq 20\text{mm}$ thick pipe insulation
EI 180 C/U & E 240

Sound reduction (seal only)
Rw 62dB

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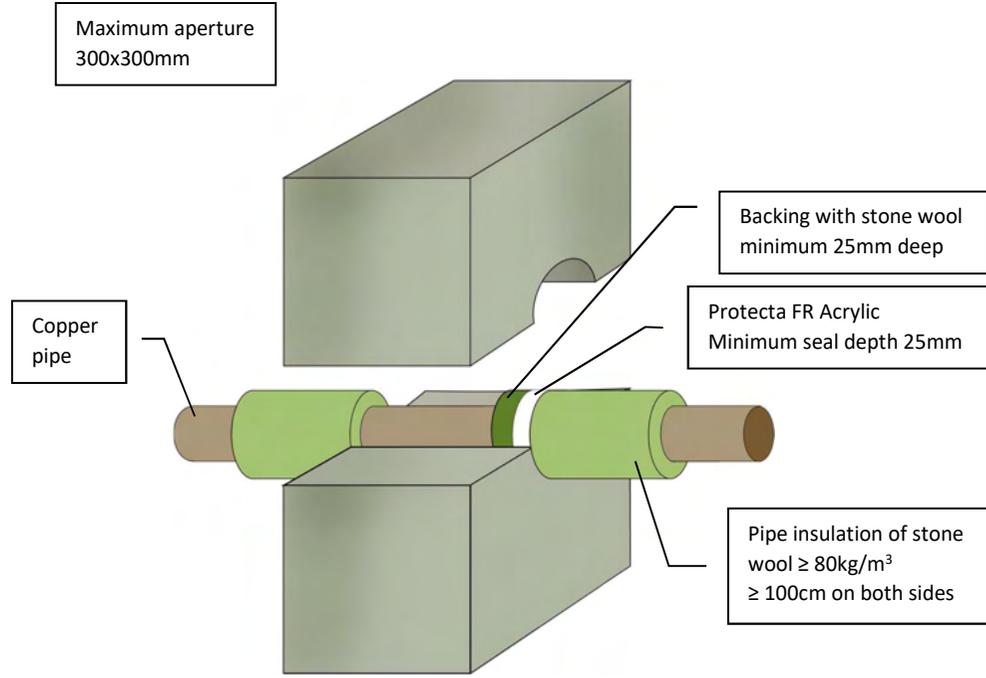
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Client:

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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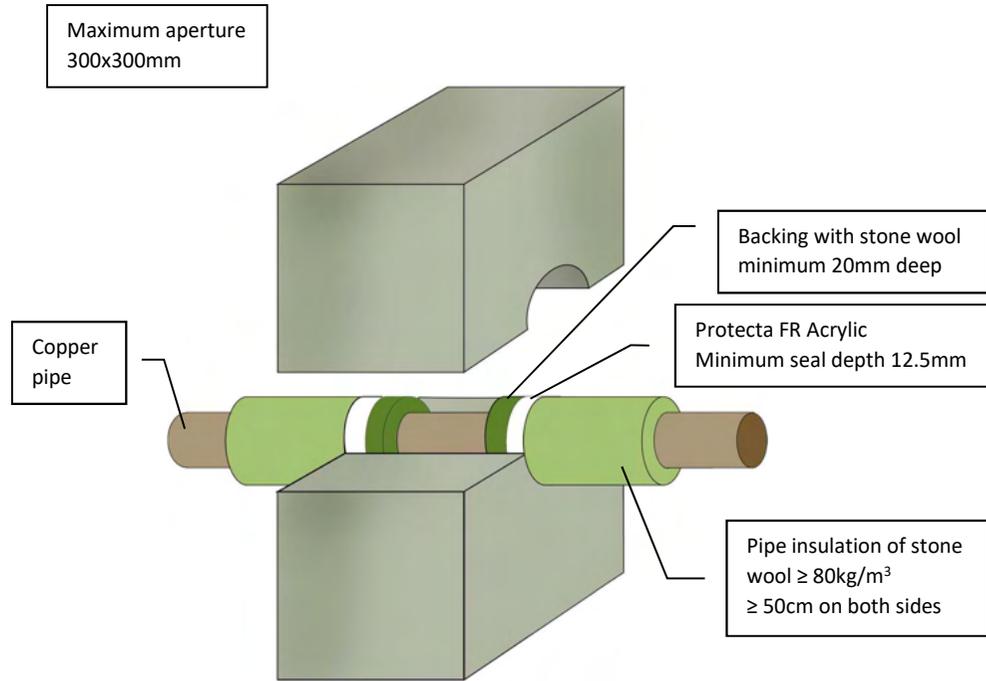
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4. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}54\text{mm}$ with $\geq 20\text{mm}$ thick pipe insulation
EI 120 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



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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

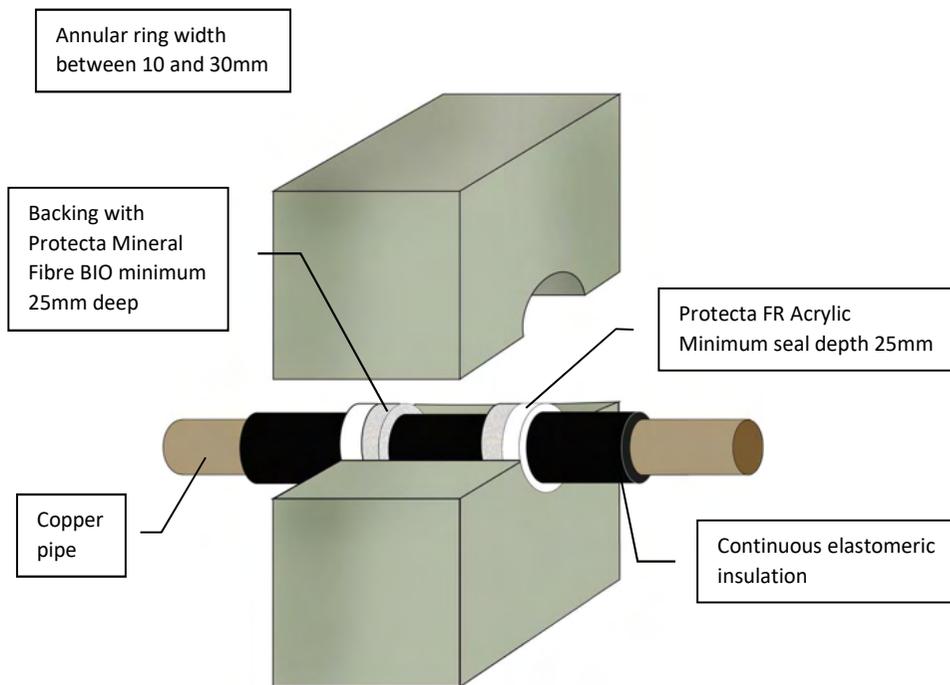
Signed and approved:

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. 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}12\text{mm}$ with 9mm thick pipe insulation EI 120 C/C & E 120

Copper pipe $\leq \text{Ø}54\text{mm}$ with 9-13mm thick pipe insulation EI 60 C/C & E 120

Copper pipe $\leq \text{Ø}54\text{mm}$ with 14-25mm thick pipe insulation EI 60 C/C & E 60

Sound reduction (seal only) Rw 62dB

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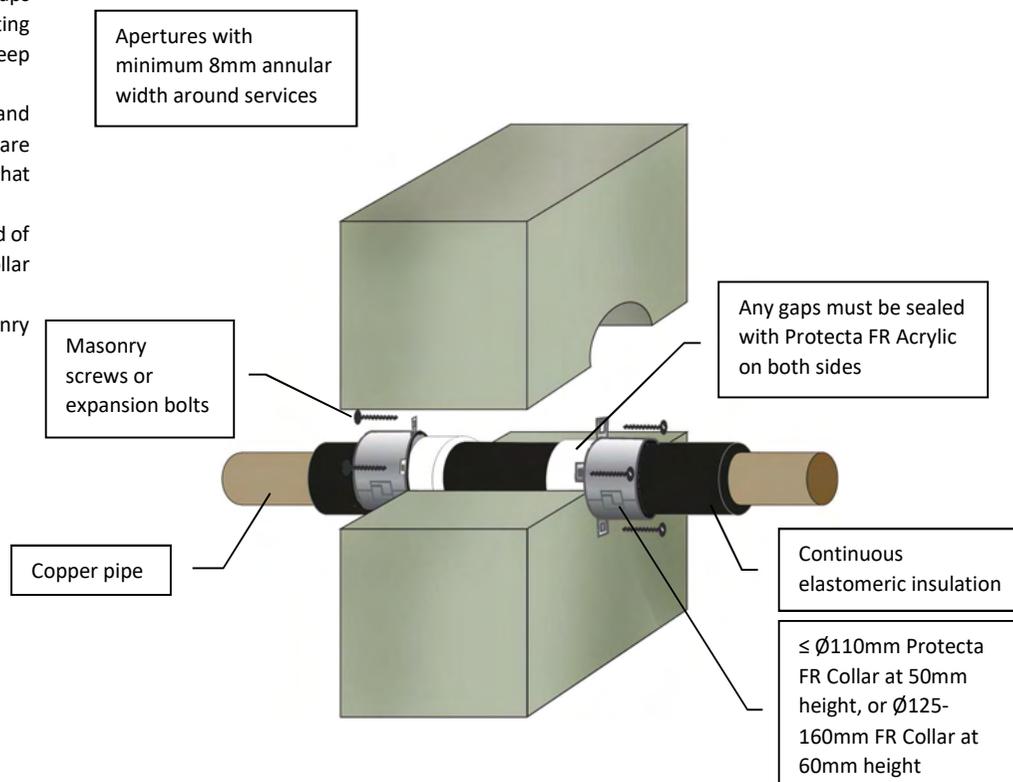
Signed and approved:

Sheet size: **A4** Drawn date & no: 9/3/15

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipe $\leq \text{Ø}54\text{mm}$ with 14 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 62 dB

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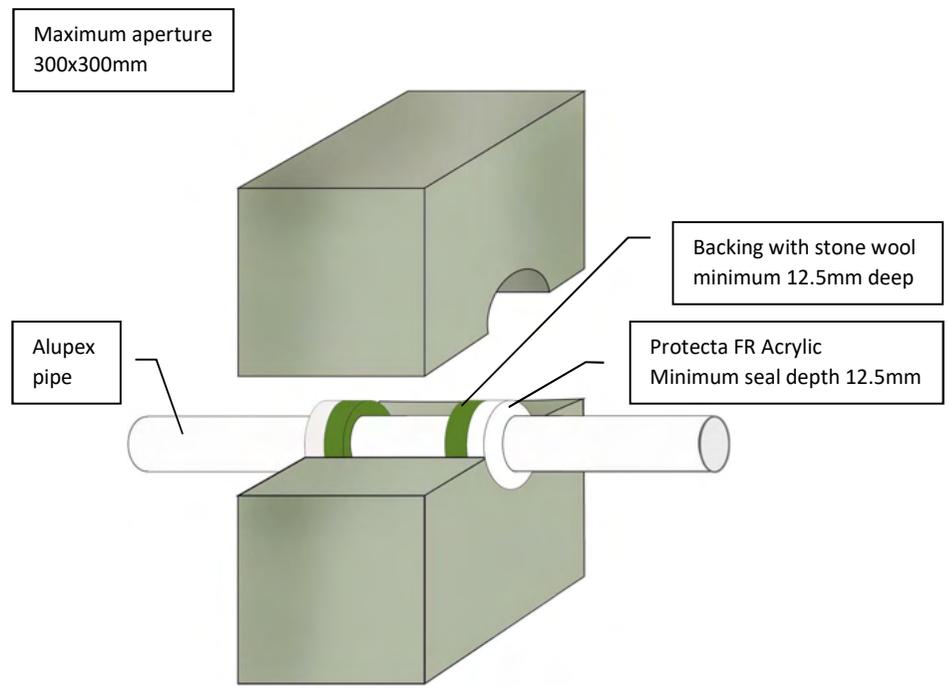
Signed and approved:

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. 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \varnothing 20\text{mm}$ without pipe insulation

EI 120 C/C & E 120

Sound reduction (seal only)

Rw 62dB

Protecta®
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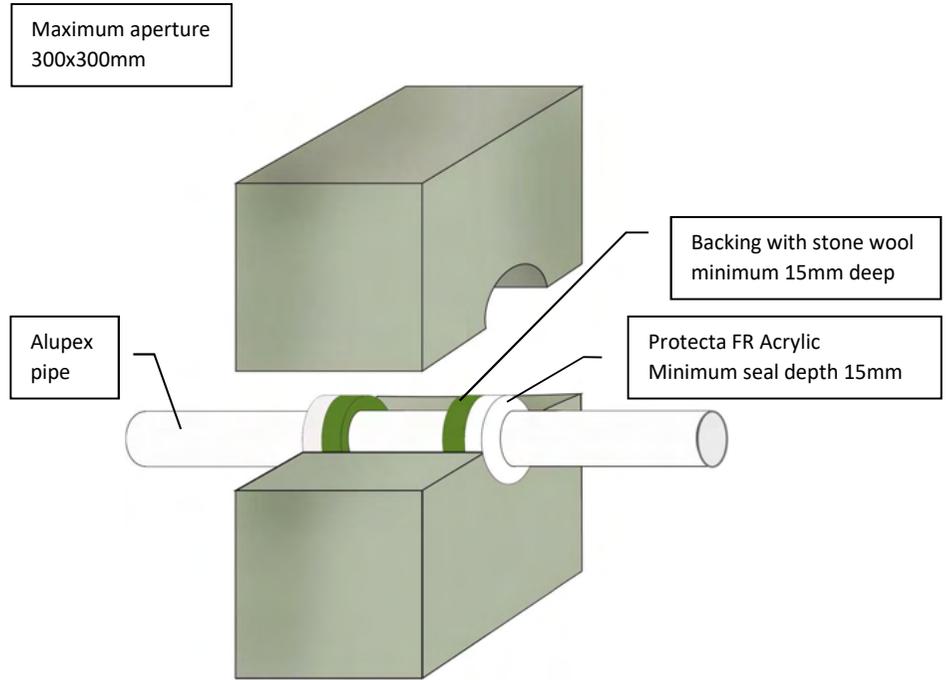
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Sheet size: **A4** Drawn date & no: **8/4/18**

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \varnothing 75\text{mm}$ without pipe insulation

EI 30 C/C & E 120

Sound reduction (seal only)

Rw 62dB

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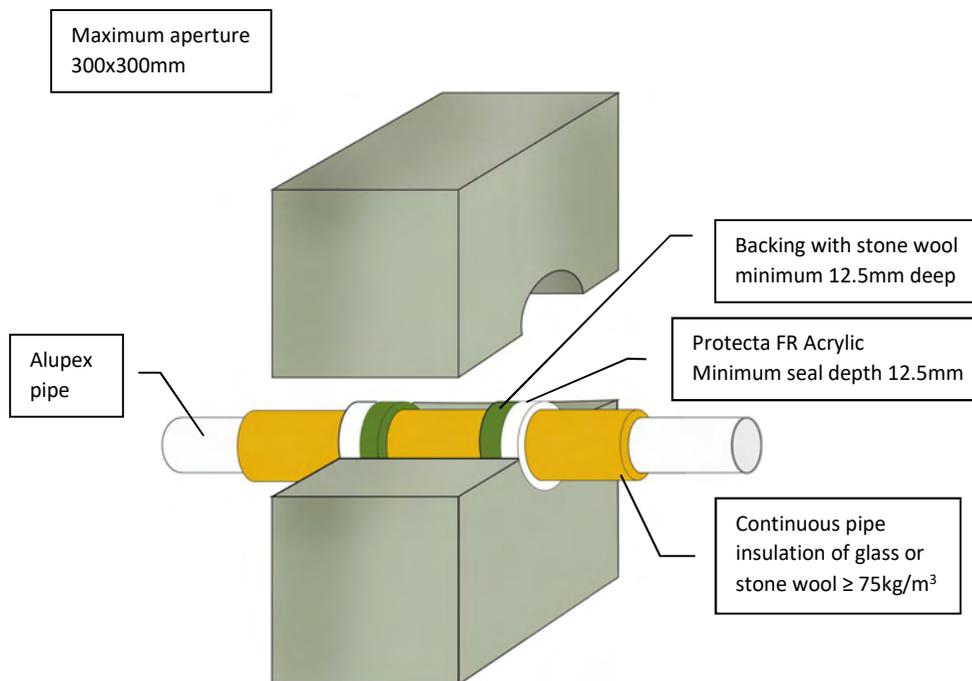
Signed and approved:

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.



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 ≥ 650 kg/m³

Fire & Sound classification

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

Sound reduction (seal only)
Rw 62dB

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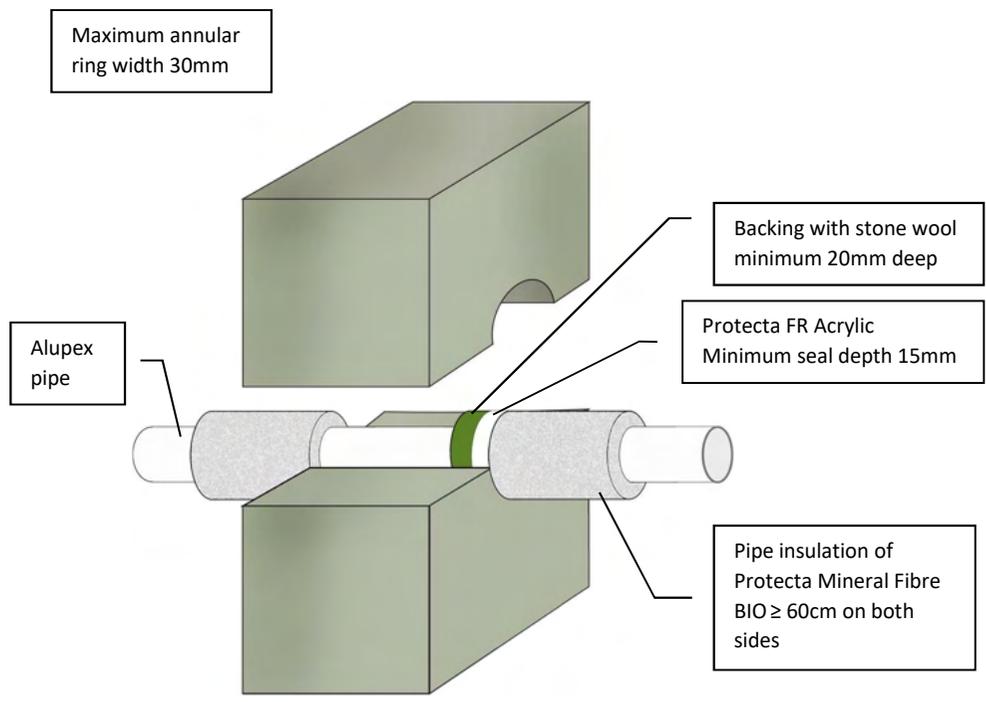
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Sheet size: **A4** Drawn date & no: **14/8/19**

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

Installation Instructions

1. Before installing Protecta® FR 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.



Client:	
Job Title:	
Products	Protecta FR Acrylic Stone wool
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 $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Alupex pipe $\leq \varnothing 75\text{mm}$ with $\geq 25\text{mm}$ thick pipe insulation	
	EI 120 C/U & E 120
Sound reduction (seal only)	
	Rw 62dB
	
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Scale:	Drawn by:
NTS	K.B



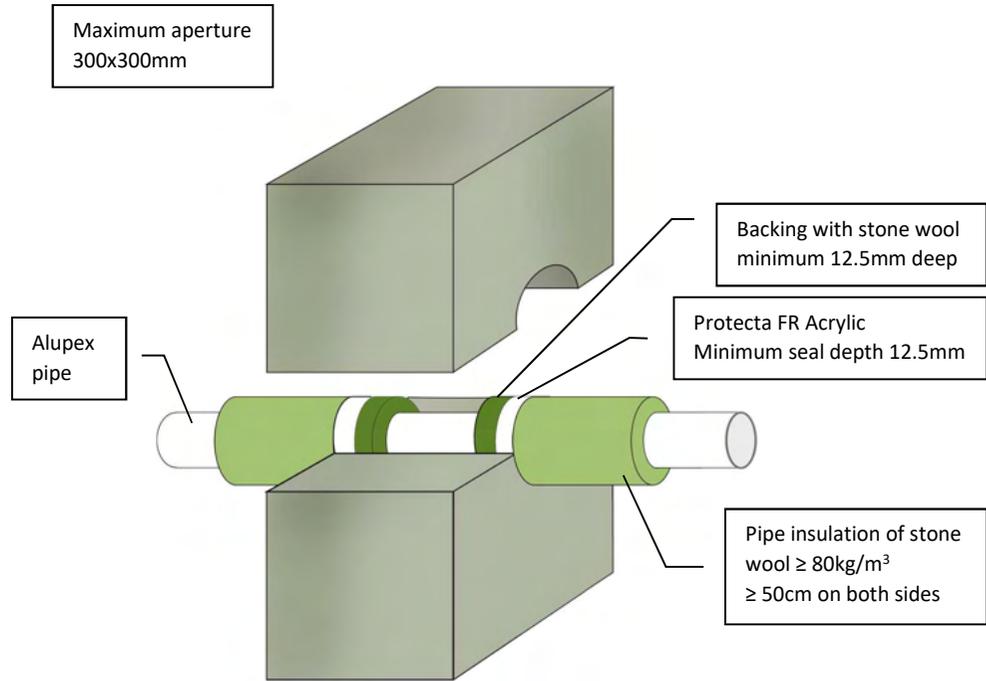
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Installation Instructions

1. Before 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \varnothing 75\text{mm}$ with $\geq 20\text{mm}$ thick pipe insulation
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

Protecta®
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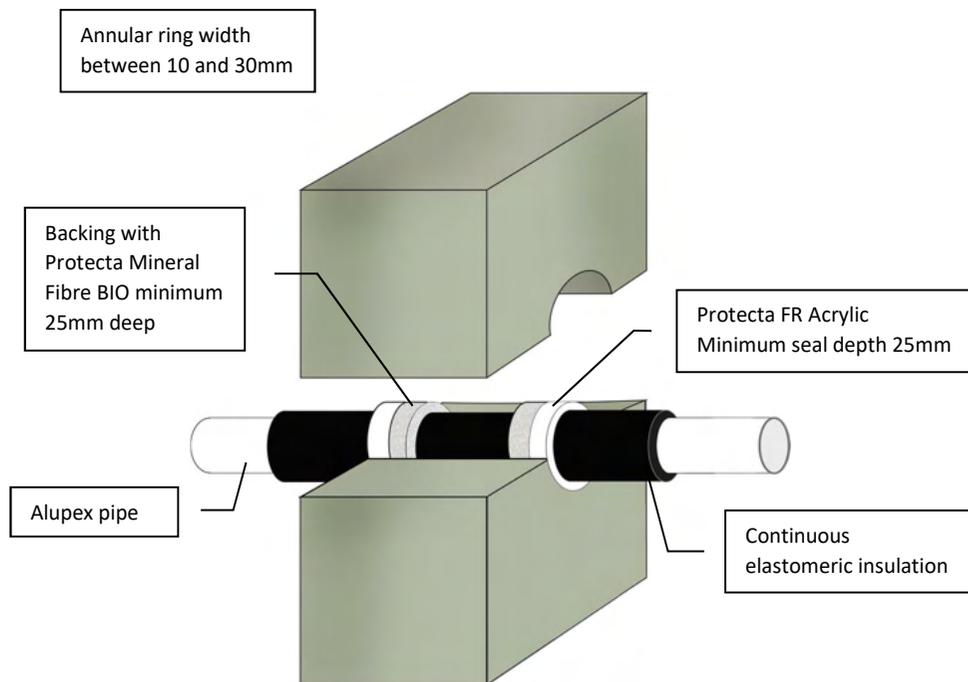
Signed and approved:

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 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \varnothing 16\text{mm}$ with 9mm thick pipe insulation EI 120 C/C & E 120

Alupex pipe $\leq \varnothing 75\text{mm}$ with 9mm thick pipe insulation EI 60 C/C & E 60

Sound reduction (seal only) Rw 62dB

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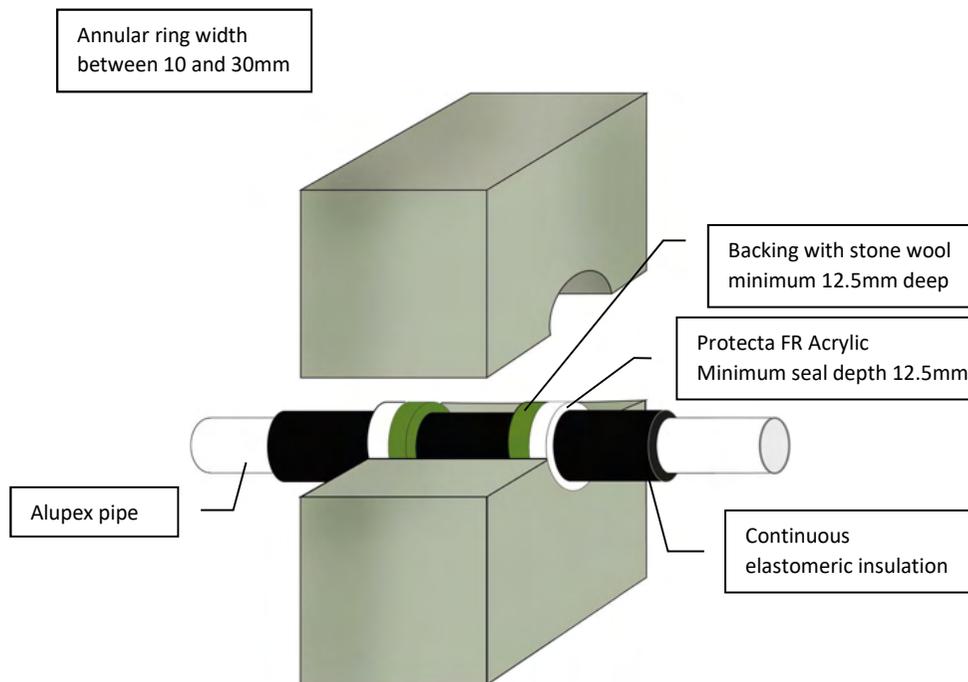
Signed and approved:

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 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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification
Alupex pipe $\leq \varnothing 16\text{mm}$ with 9mm thick pipe insulation EI 90 C/C & E 120

Alupex pipe $\leq \varnothing 75\text{mm}$ with 9mm thick pipe insulation EI 45 C/C & E 60

Alupex pipe $\leq \varnothing 75\text{mm}$ with 13 – 24mm thick pipe insulation EI 60 C/C & E 90

Alupex pipe $\leq \varnothing 75\text{mm}$ with 25mm thick pipe insulation EI 90 C/C & E 90

Sound reduction (seal only) Rw 62dB



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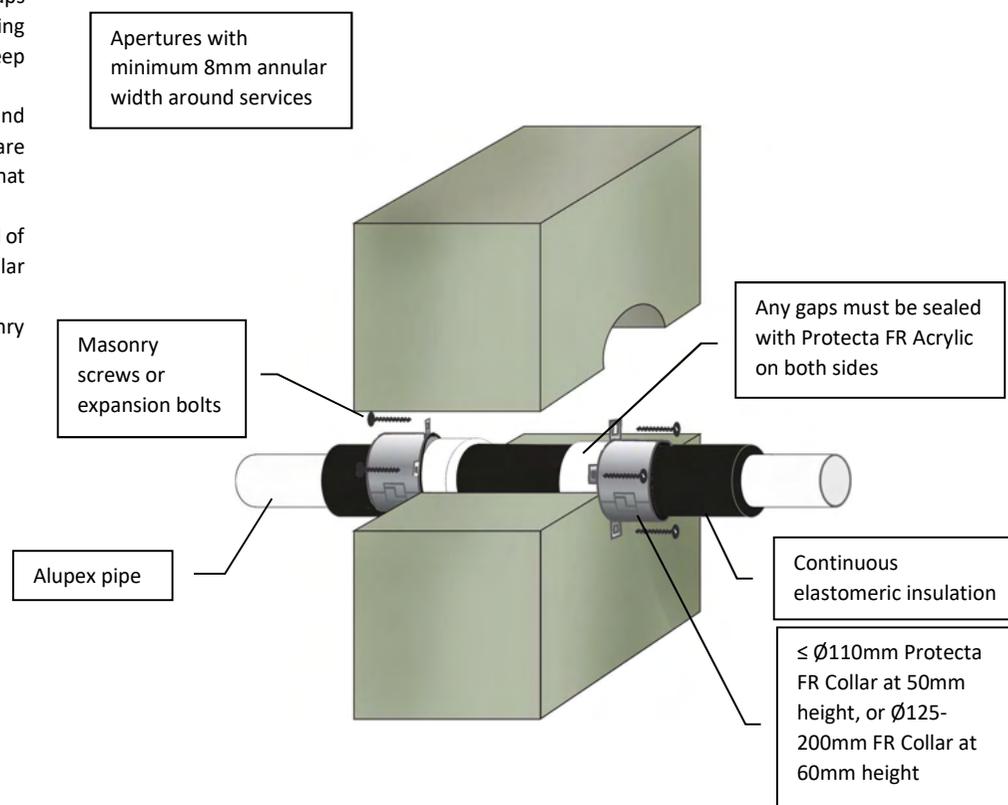
Signed and approved:

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Alupex pipe $\leq \text{Ø}75\text{mm}$ with 26 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 62 dB

Protecta[®]
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ETA 21/0070

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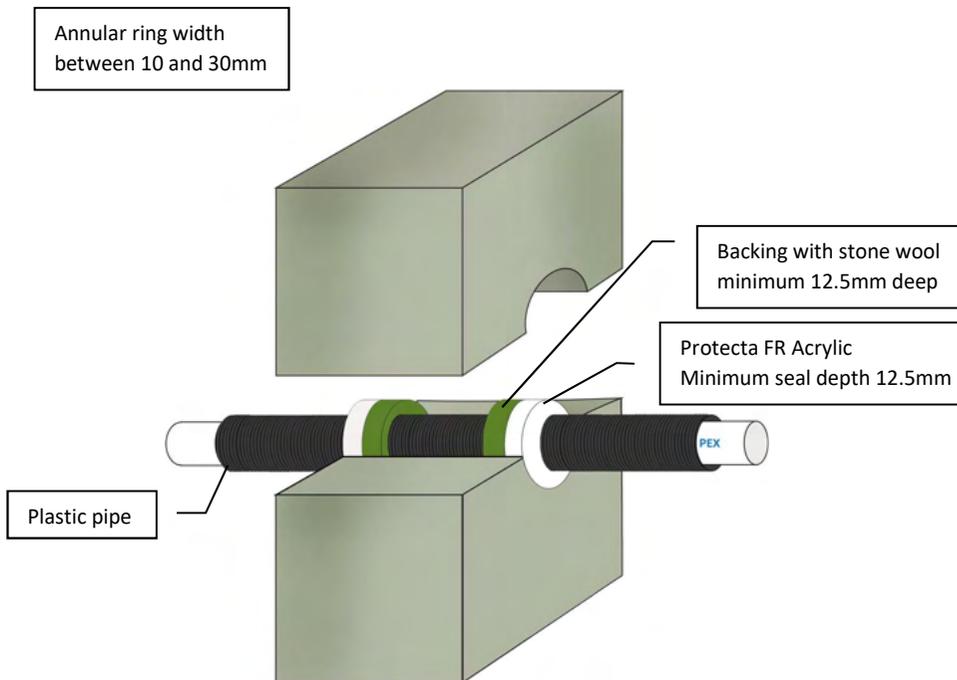
Signed and approved:

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PEX pipe-in-pipe $\leq \text{Ø}25\text{mm}$
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

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ETA 21/0035

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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

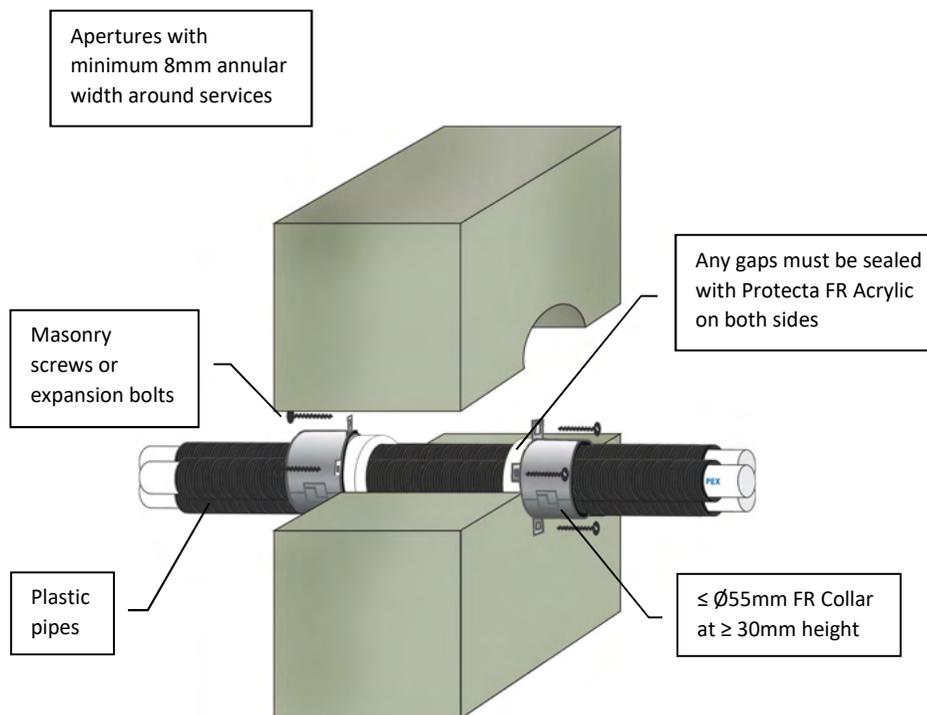
Signed and approved:

Sheet size: **A4** Drawn date & no: 9/4/18

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

Installation Instructions

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PEX pipe-in-pipes $\leq \text{Ø}25\text{mm}$, single, or in a bundle $\leq \text{Ø}55\text{mm}$ EI 90 C/C & E 120

Sound reduction (seal only) Rw 62 dB

Protecta[®]

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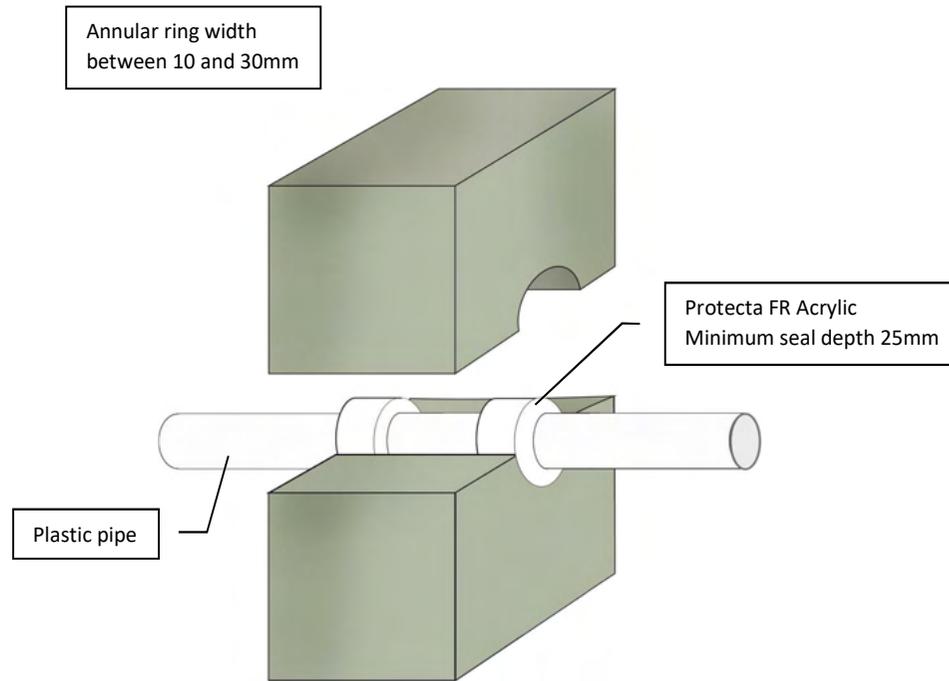
Signed and approved:

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification
 PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 1.0-1.6mm EI 120 C/C & E 120
 PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 1.0-2.4mm EI 90 U/C & E 120
 PE, ABS or SAN+PVC pipe $\text{Ø}20\text{mm}$ with wall thickness 2.0mm EI 120 U/C & E 120
 PE, ABS or SAN+PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 2.0-3.0mm EI 90 C/C & E 90
 PP pipe $\text{Ø}20\text{mm}$ with wall thickness 2.2mm EI 120 U/C & E 120
 PP pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 1.8-4.4mm EI 60 C/C & E 60
 Sound reduction (seal only) Rw 62dB



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ETA 21/0035

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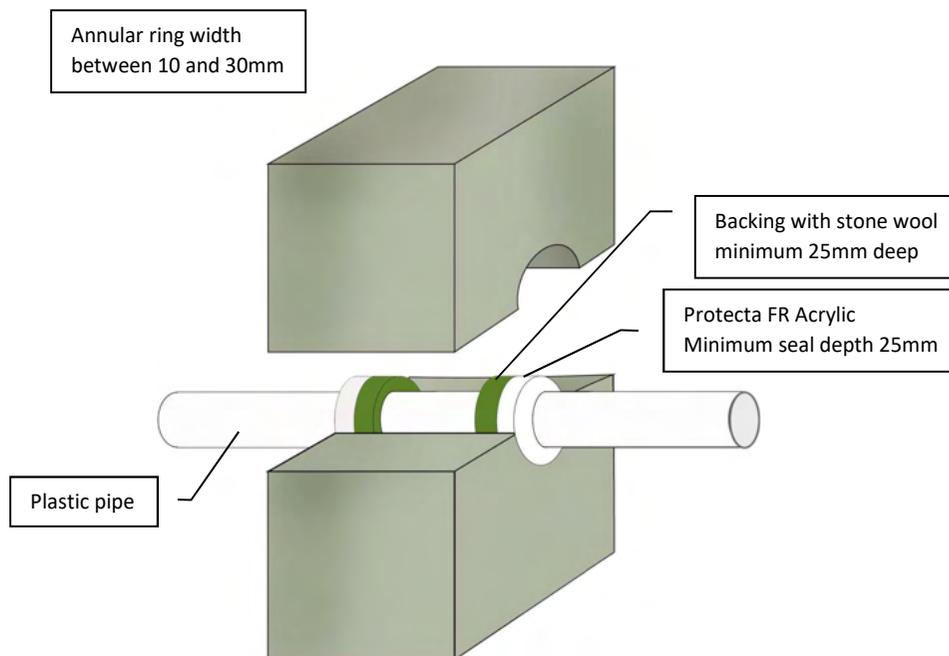
Signed and approved:

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification
PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 1.0-2.4mm EI 240 U/C & E 240

PE, ABS or SAN+PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 2.0-4.4mm EI 120 C/U & E 120

PE, ABS or SAN+PVC pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 2.0mm EI 240 C/U & E 240

PP pipe $\leq \text{Ø}32\text{mm}$ with wall thickness 1.8-4.4mm EI 240 C/U & E 240

Sound reduction (seal only) Rw 62dB



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ETA 21/0035

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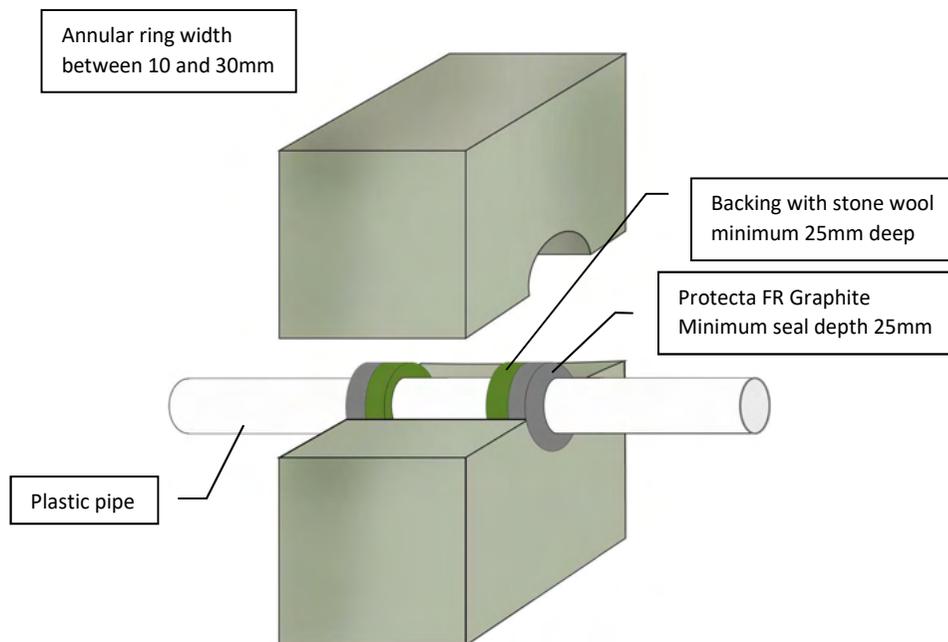
Signed and approved:

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.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
PVC-U or PVC-C pipe $\leq 110 \text{ mm}$ 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 $\leq 40 \text{ mm}$ 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 $\leq 110 \text{ mm}$ 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 $\leq 110 \text{ mm}$ 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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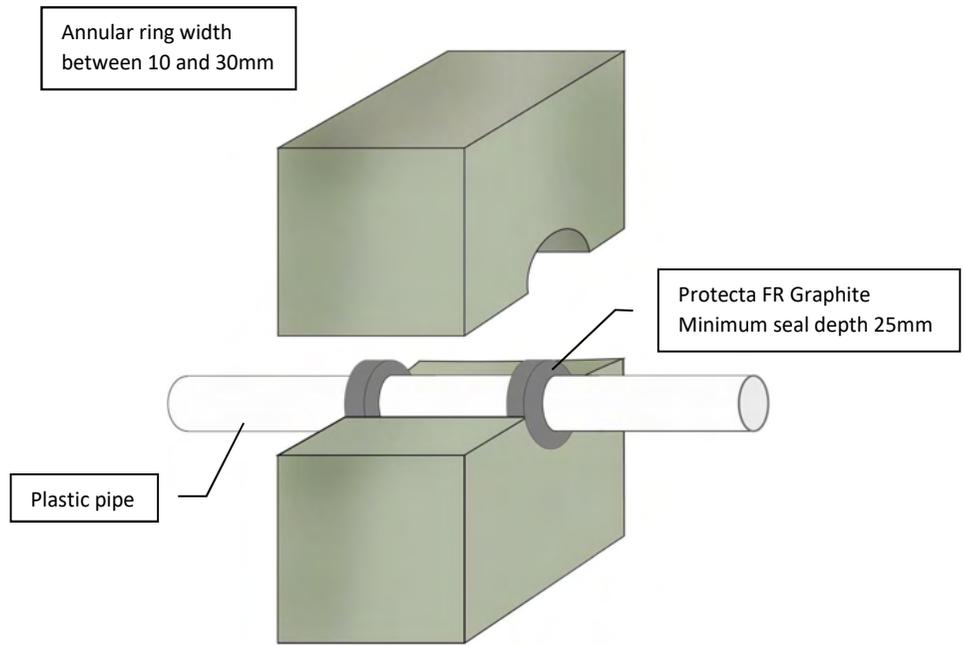
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Sheet size:	Drawn date & no:
A4	11/11/18

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.



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 $\geq 650 \text{ kg/m}^3$

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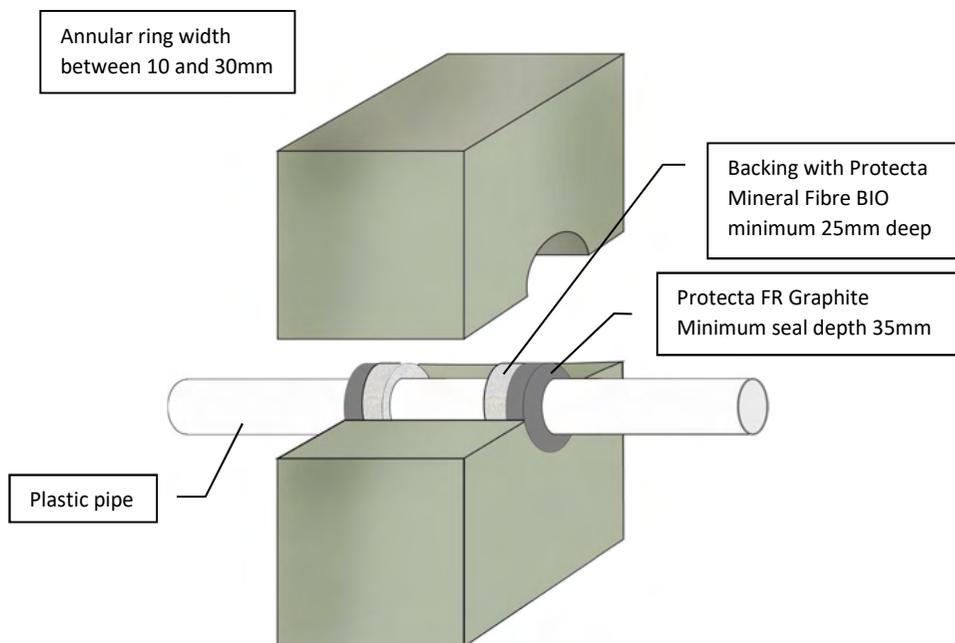
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Sheet size:	Drawn date & no:
A4	11/11/18
Scale:	Drawn by:
NTS	K.B

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.



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 $\geq 650 \text{ kg/m}^3$

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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ETA 21/0040

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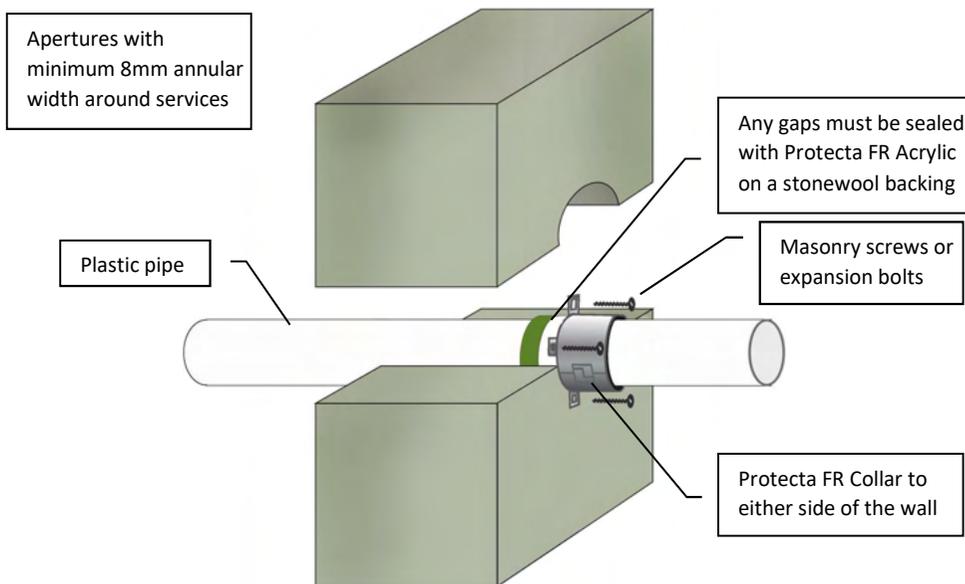
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

Installation Instructions

1. Before fitting the 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 with $\geq \text{Ø}4 \times 40\text{mm}$ 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

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 $\geq 650 \text{ kg/m}^3$

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



ETA 21/0070

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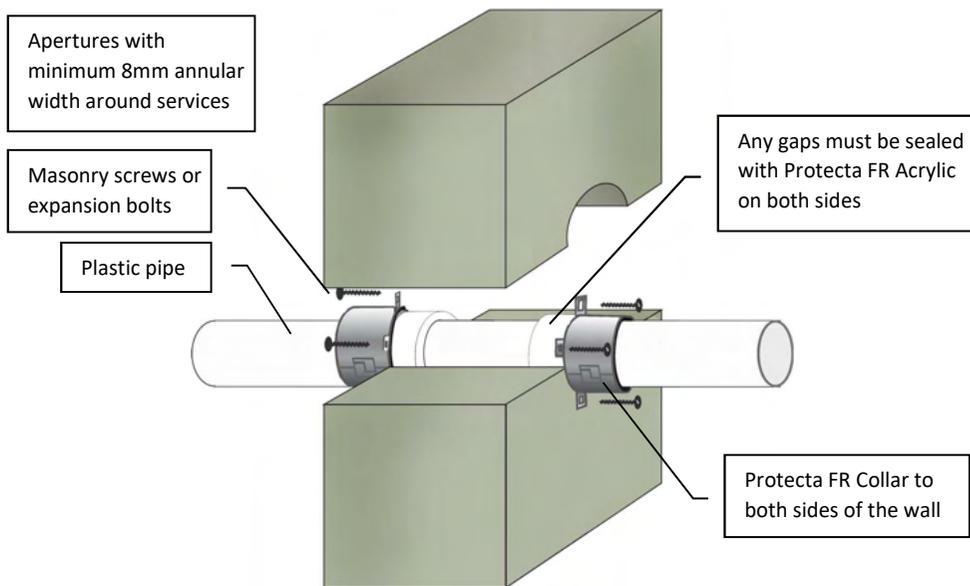
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Tel: +44 (0) 148 4421036
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Sheet size: **A4** Drawn date & no: **22/8/21**

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}140\text{mm}$ PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
$\text{Ø}315 \times 9.2\text{mm}$ PVC-U & PVC-C	75mm	EI 60 C/C
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}140\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
$\text{Ø}200 \times 18.2\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\text{Ø}250 \times 22.7\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\leq \text{Ø}50\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U



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Signed and approved:

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 $\geq 650 \text{ kg/m}^3$

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



Protecta®

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Tel: +44 (0) 148 4421036

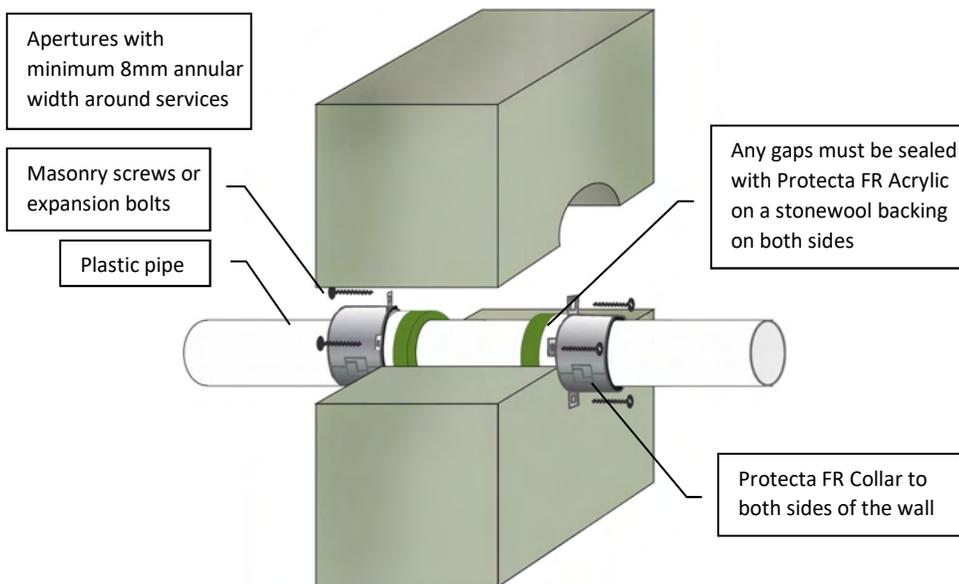
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 20/8/19

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 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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



Services	Minimum Collar Height	Classification
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}200\text{mm}$ PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
$\text{Ø}315 \times 9.2\text{mm}$ PVC-U & PVC-C	75mm	EI 120 C/C
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)
$\leq \text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U
$\text{Ø}200 \times 18.2\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 60 C/C
$\text{Ø}250 \times 22.7\text{mm}$ PE, ABS & SAN+PVC	75mm	EI 90 C/C (E 120)
$\leq \text{Ø}50\text{mm}$ PP	30mm	EI 240 C/C, EI 240 U/C, EI 240 C/U, EI 240 U/U
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 240 C/C, EI 240 U/C, EI 90 C/U, EI 90 U/U (E 240)
$\leq \text{Ø}140\text{mm}$ PP	60mm	EI 180 C/C, EI 180 U/C, EI 60 C/U, EI 60 U/U (E 240)
$\text{Ø}160\text{mm}$ PP	60mm	EI 180 C/C, EI 180 U/C, EI 180 C/U, EI 180 U/U (E 240)



ETA 21/0070

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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 $\geq 650 \text{ kg/m}^3$

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



Protecta®

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

Tel: +44 (0) 148 4421036

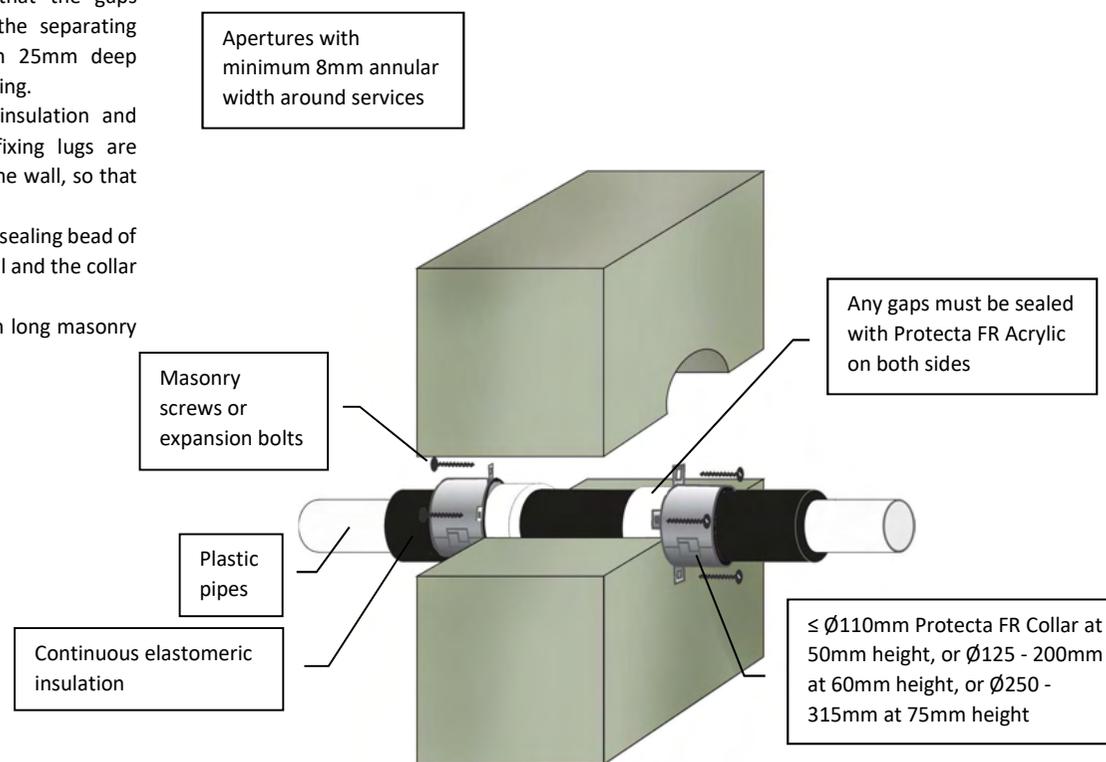
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 20/8/19

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 collars with $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PE pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe $\text{Ø}160\text{mm}$ with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe $\text{Ø}160\text{mm}$ 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



ETA 21/0070

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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:



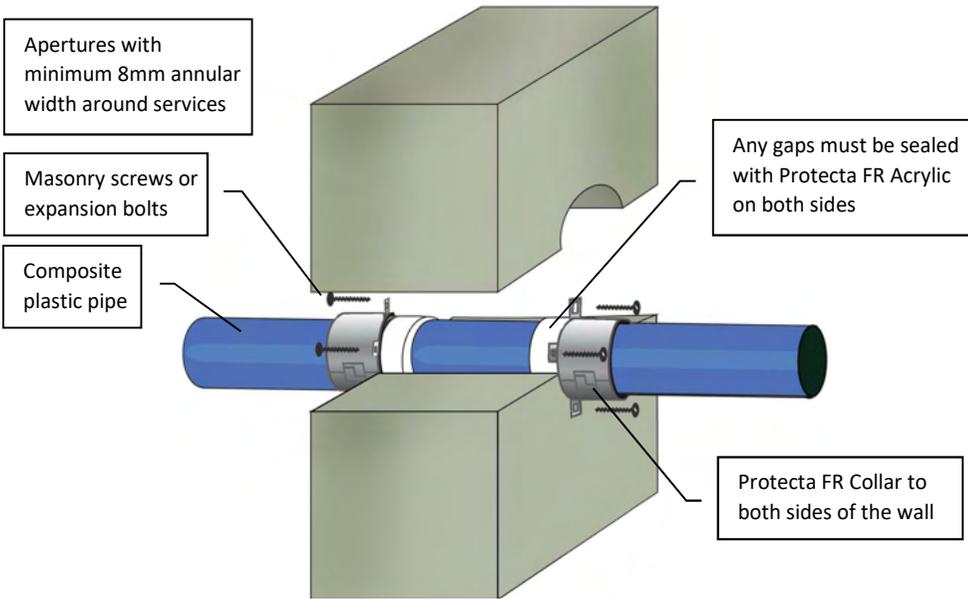
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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

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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

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

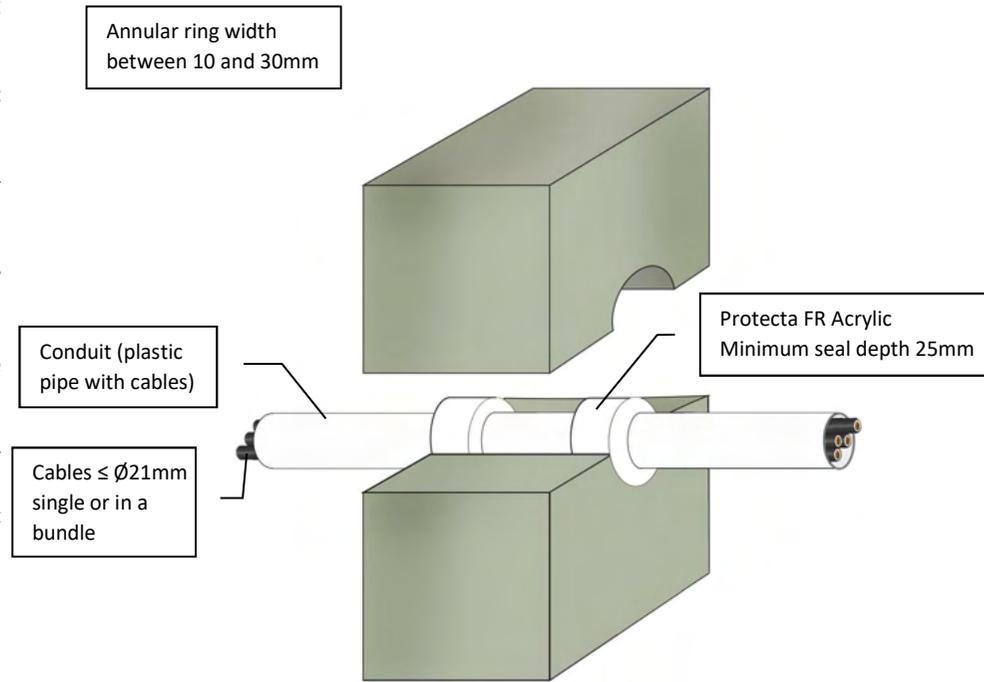
Sound reduction (seal only) Rw 62dB

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 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.



Client:

Job Title:

Products	Protecta FR Acrylic
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 ≥ 650 kg/m ³

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

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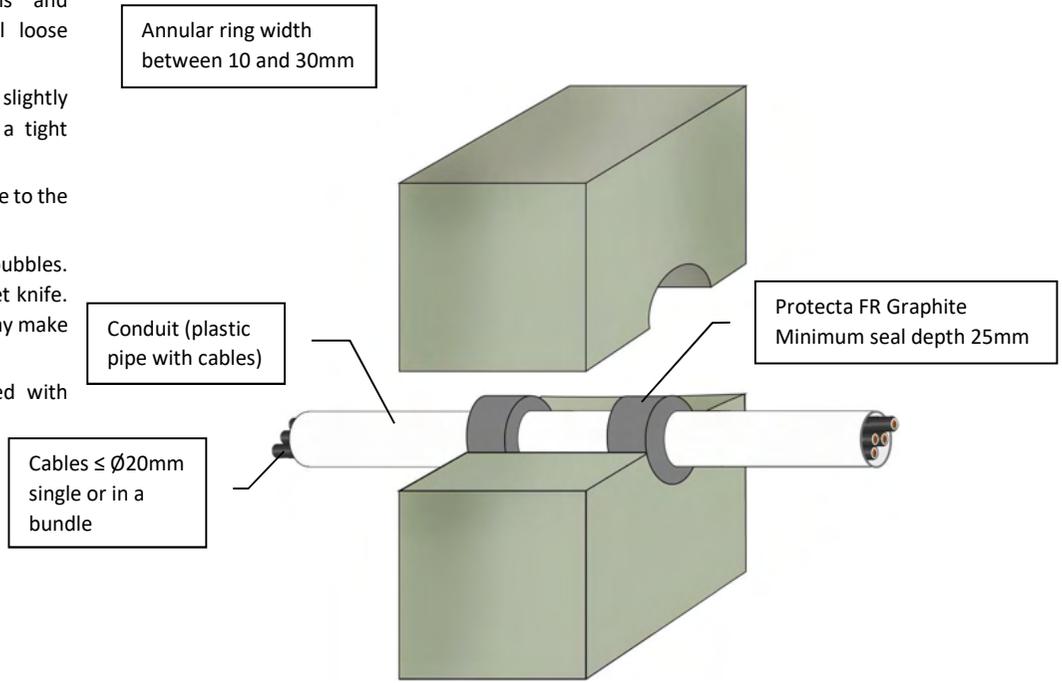
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	14/8/19
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.



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 ≥ 650 kg/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 2.7 - 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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ETA 21/0040

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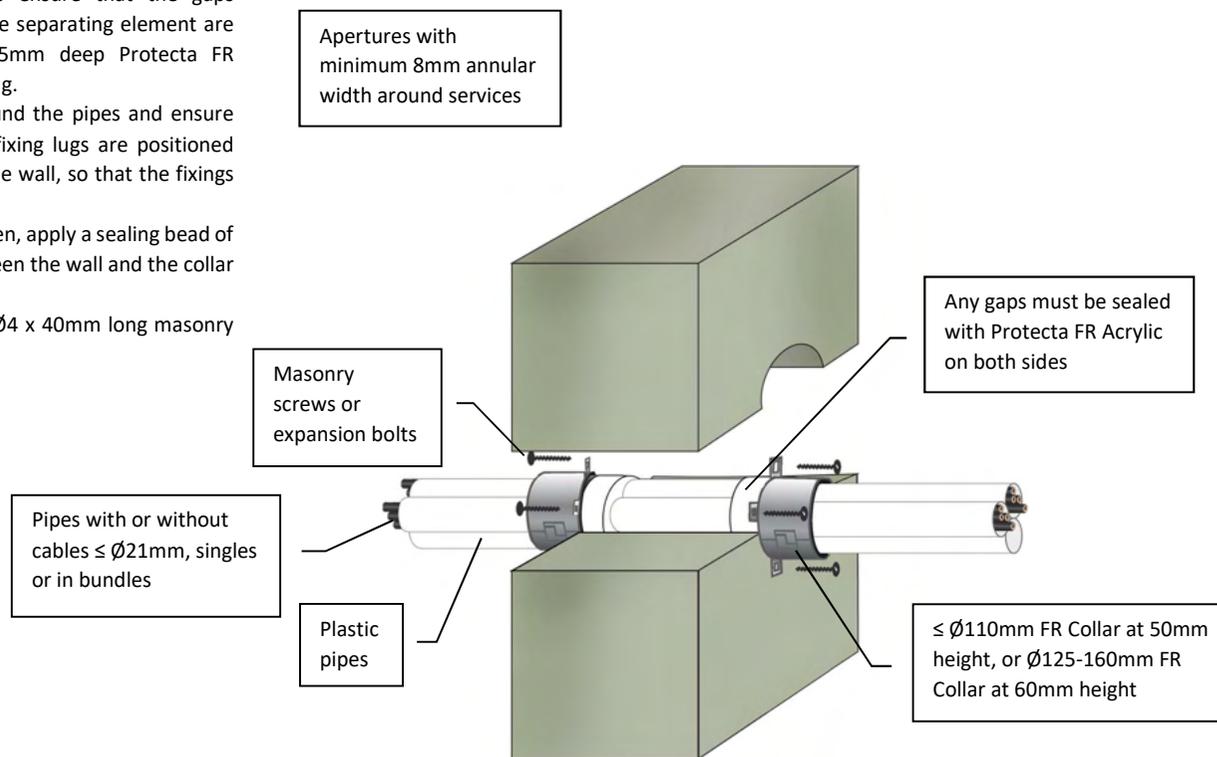
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size:	Drawn date & no:
A4	11/11/18
Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4 \times 40\text{mm}$ long masonry screws or expansion bolts.



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 $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

PVC pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 62 dB



ETA 21/0070

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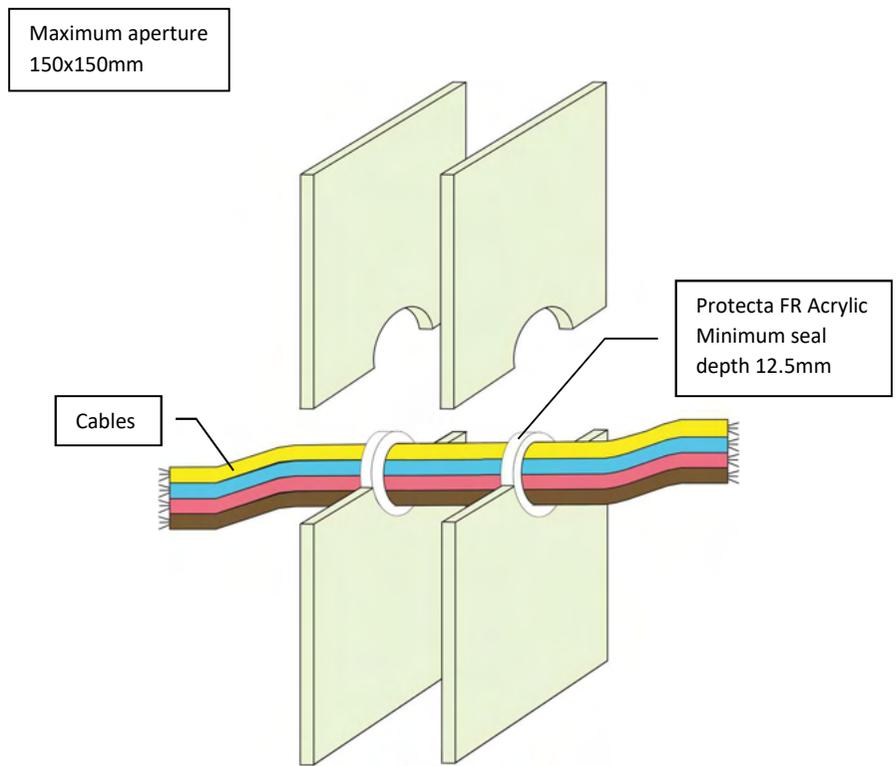
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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.



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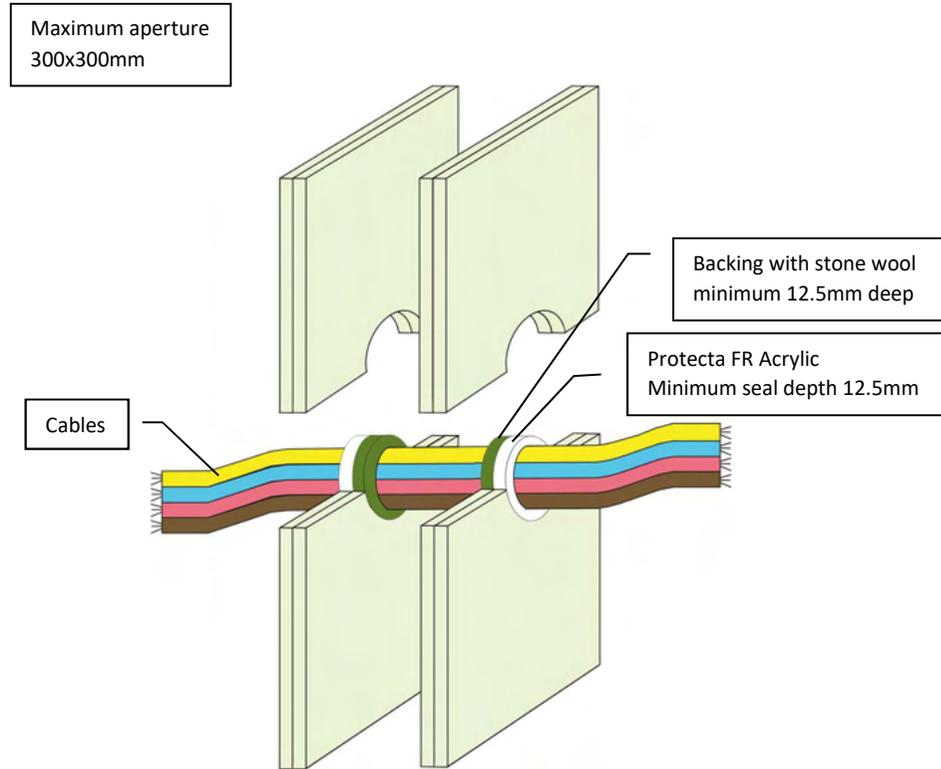
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size:	Drawn date & no:
A4	27/8/21
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 21/0035

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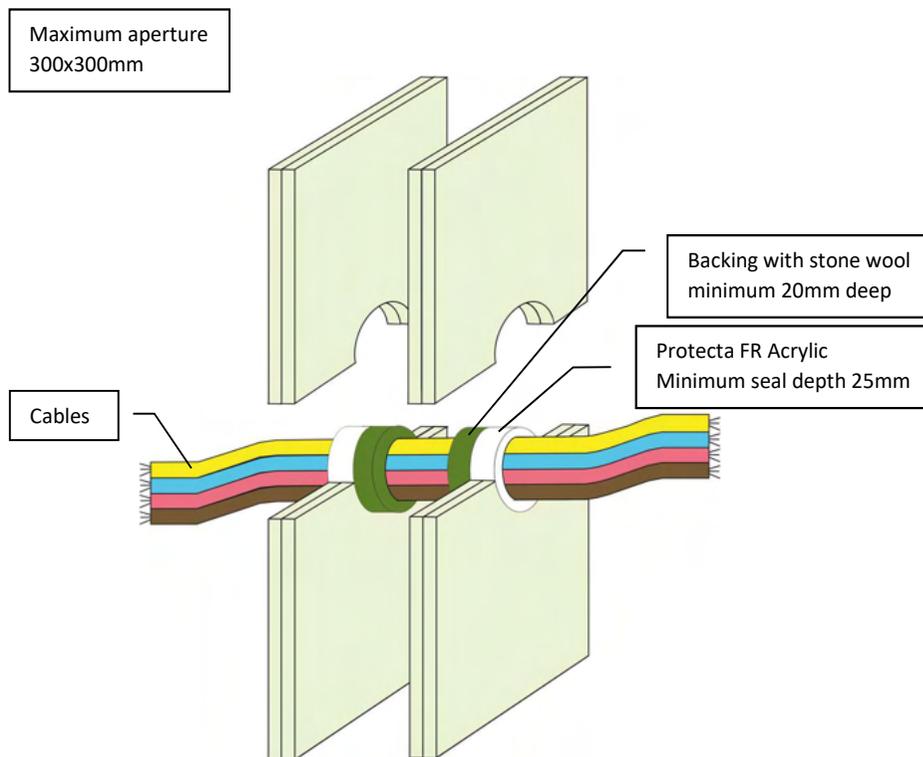
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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	
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A4	13/8/19
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 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.



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

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ETA 21/0035

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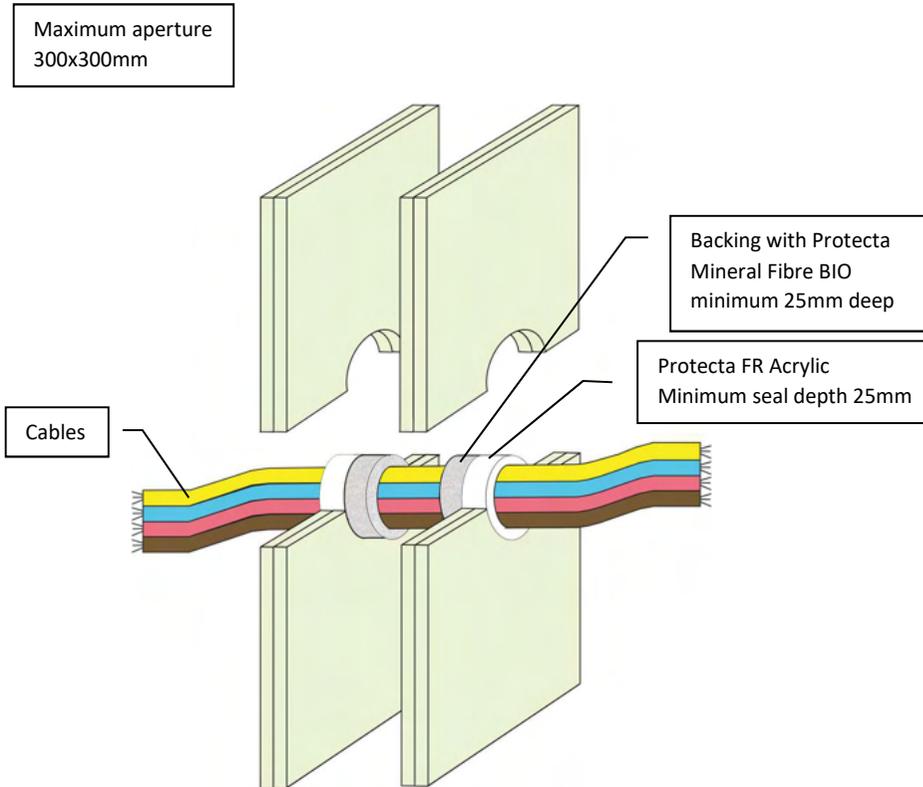
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Sheet size: **A4** Drawn date & no: 20/4/15

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.



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

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ETA 21/0035

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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

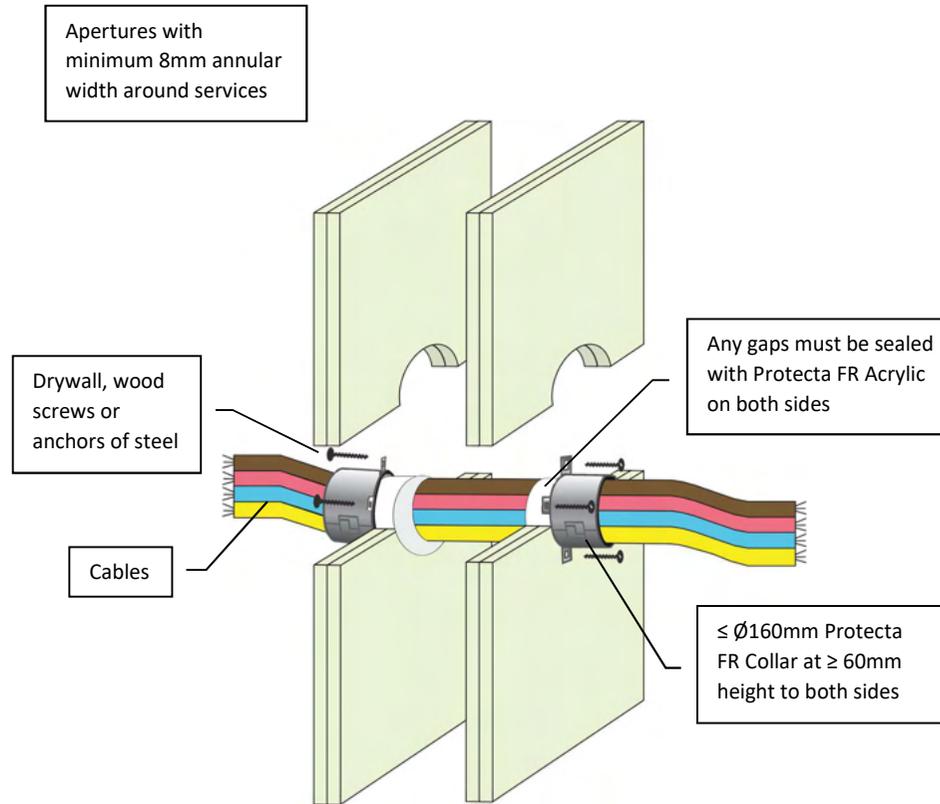
Signed and approved:

Sheet size: **A4** Drawn date & no: 20/4/15

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

Installation Instructions

1. Before 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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel.



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 $\leq \text{Ø}80\text{mm}$ in a bundle $\leq \text{Ø}160\text{mm}$	EI 60 & E 120
Sound reduction (seal only)	Rw 62 dB

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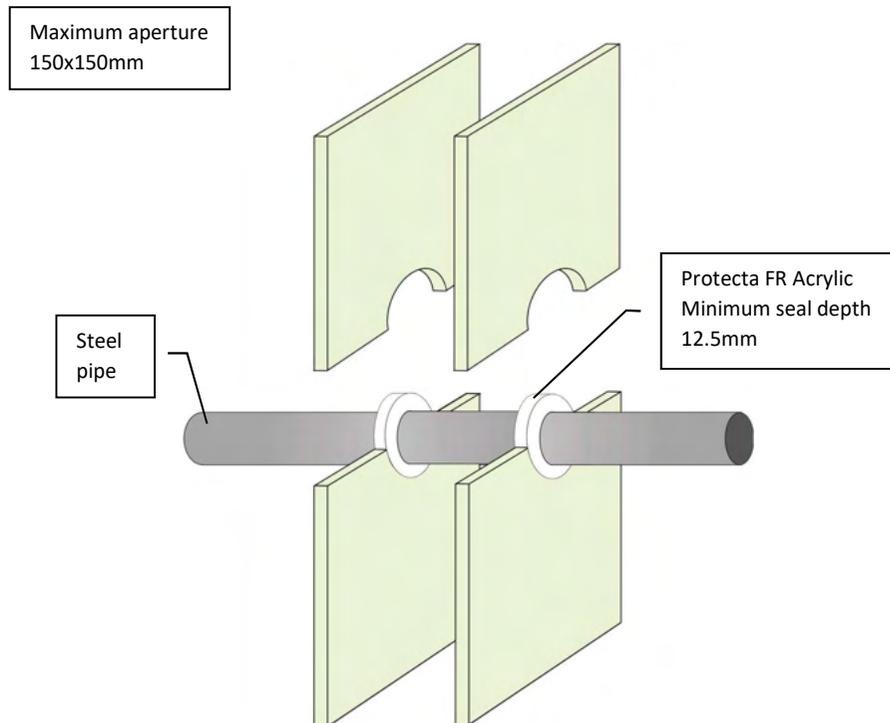
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 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 alkylid (gloss) paints.



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

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



ETA 21/0035

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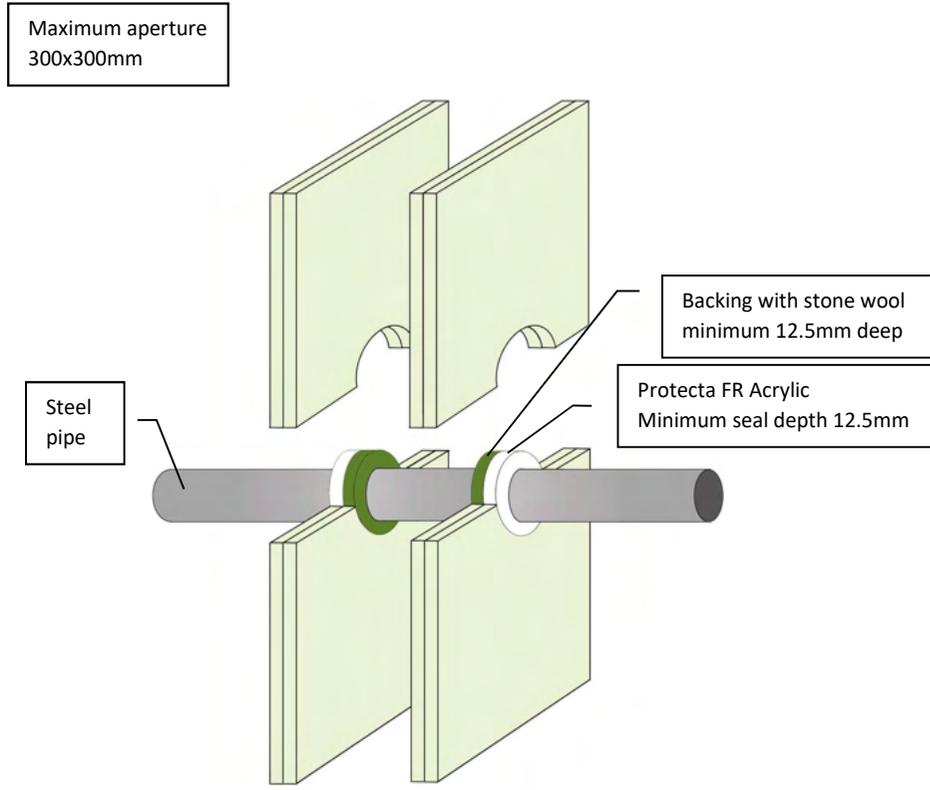
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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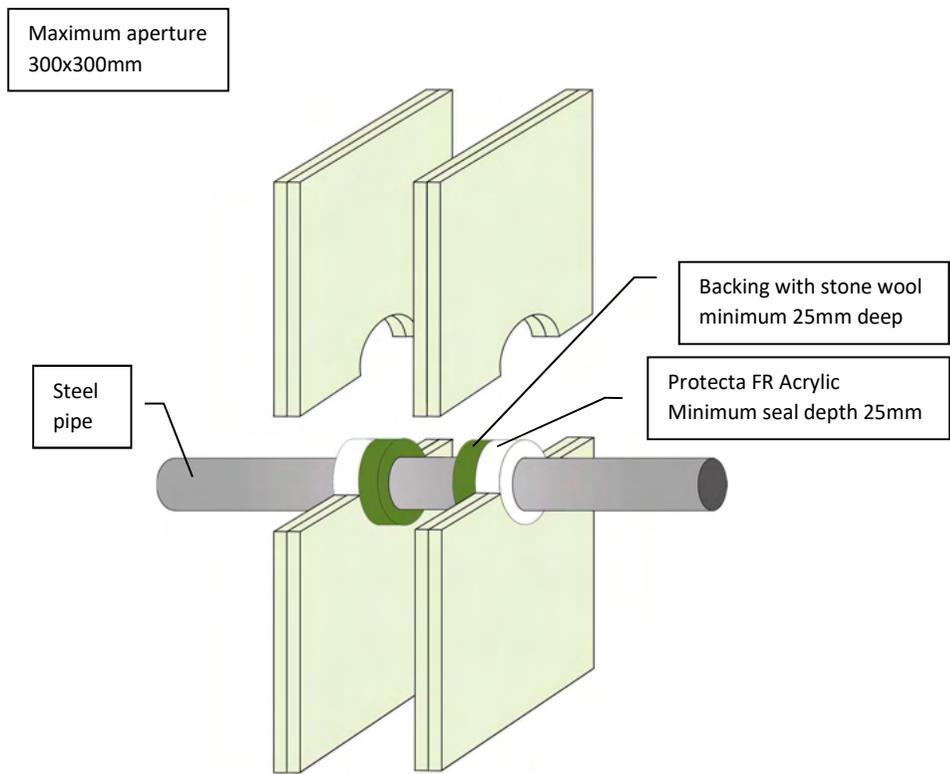
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Installation Instructions

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8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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

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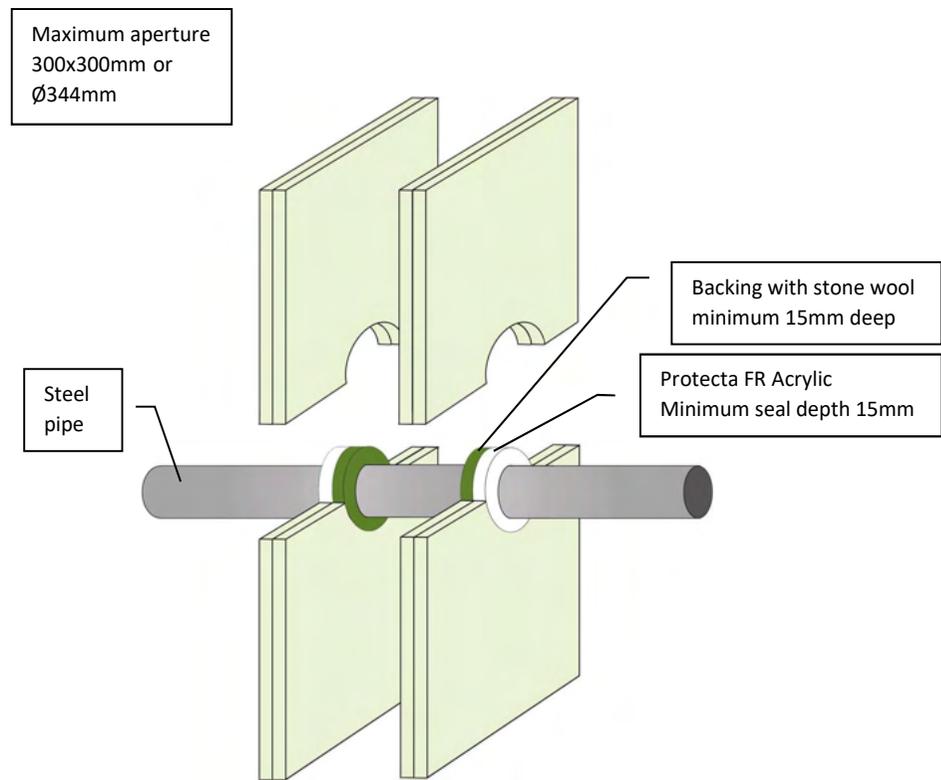
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Installation Instructions

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8. Protecta® FR Acrylic can be over-painted with most emulsion or alkylid (gloss) paints.



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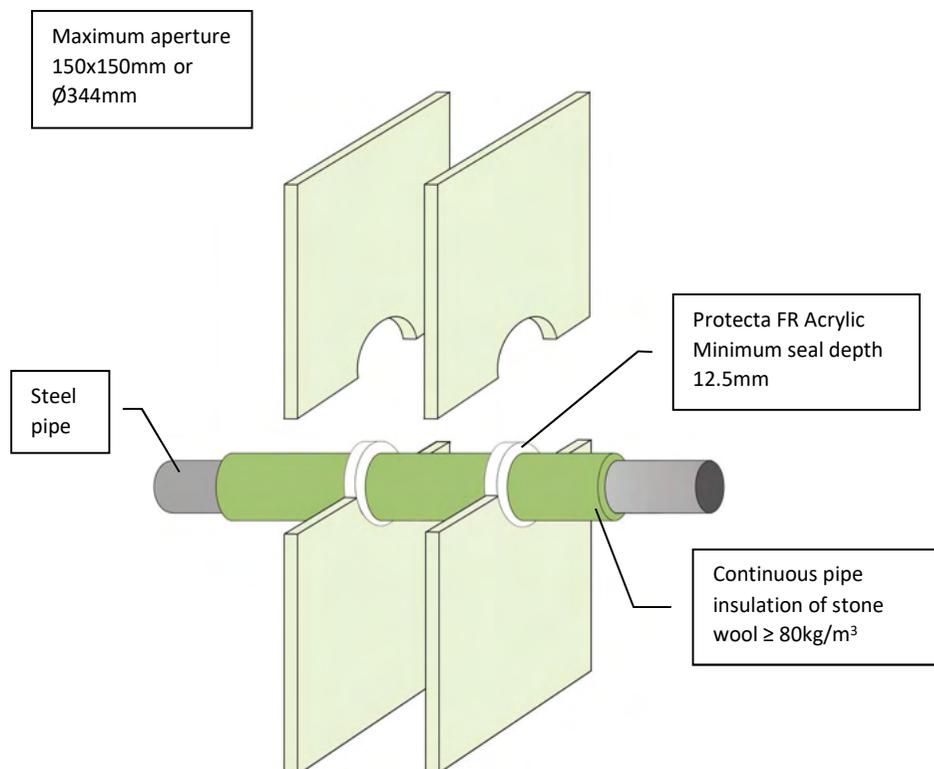
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6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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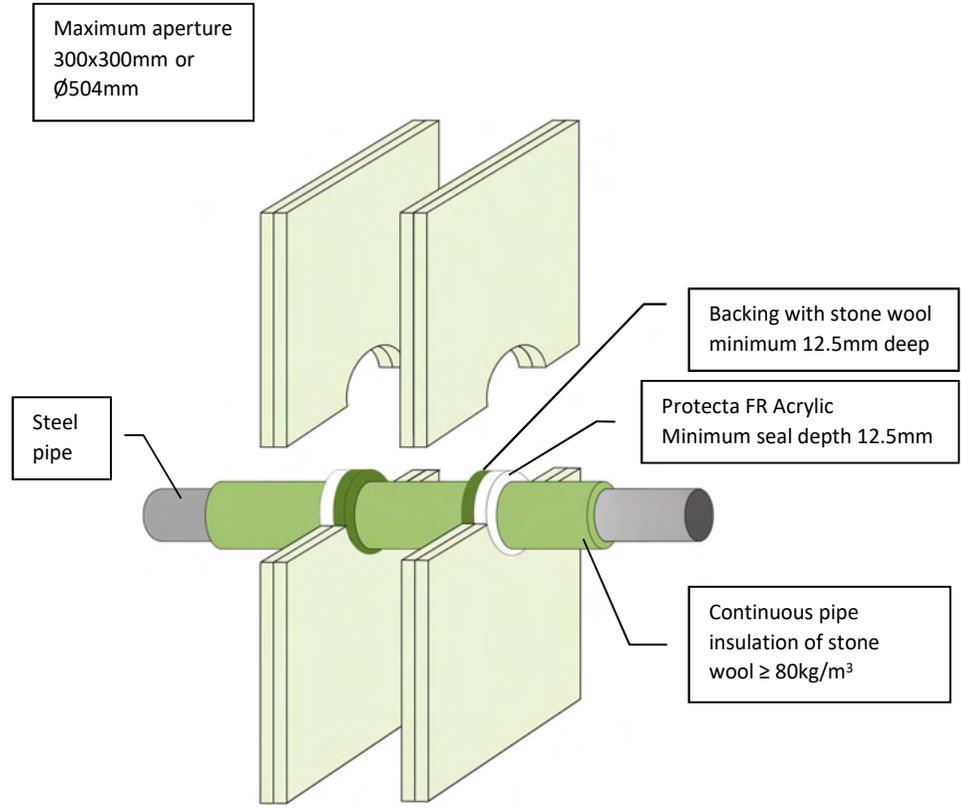
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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 ≤ Ø324mm with 20-80mm thick pipe insulation
EI 90 C/U & E 120

Sound reduction (seal only)
Rw 62dB

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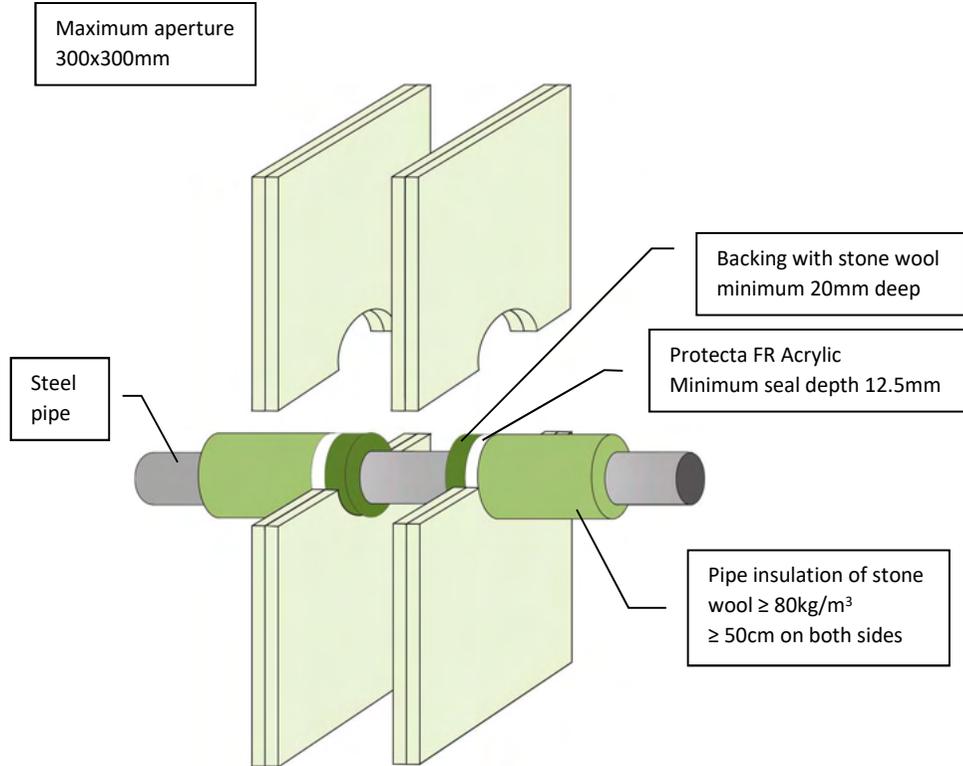
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Scale: **NTS** Drawn by: K.B

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8. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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
EI 120 C/U & E 120

Steel pipe ≤ Ø219mm with ≥ 30mm thick pipe insulation
EI 90 C/U & E 120

Sound reduction (seal only) Rw 62dB

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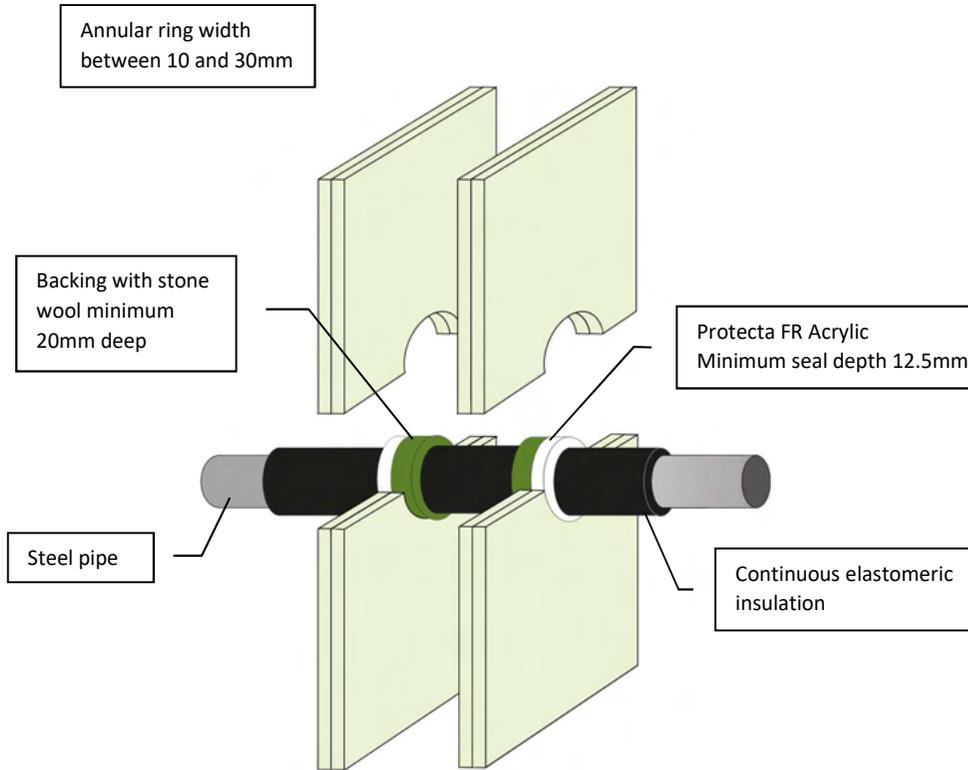
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0035

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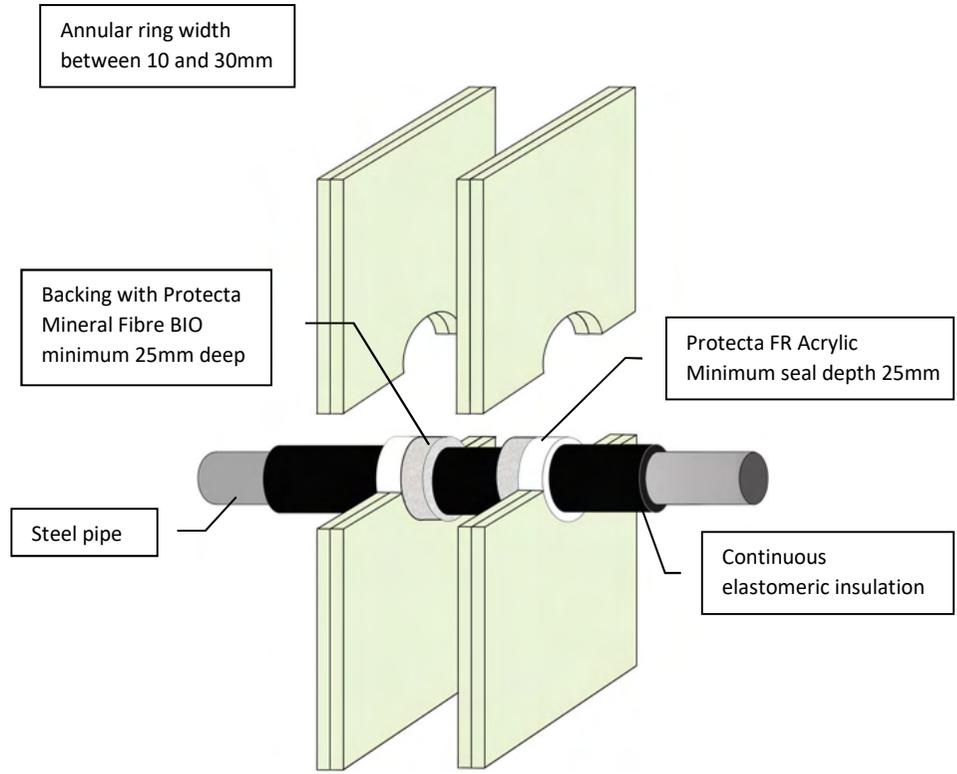
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

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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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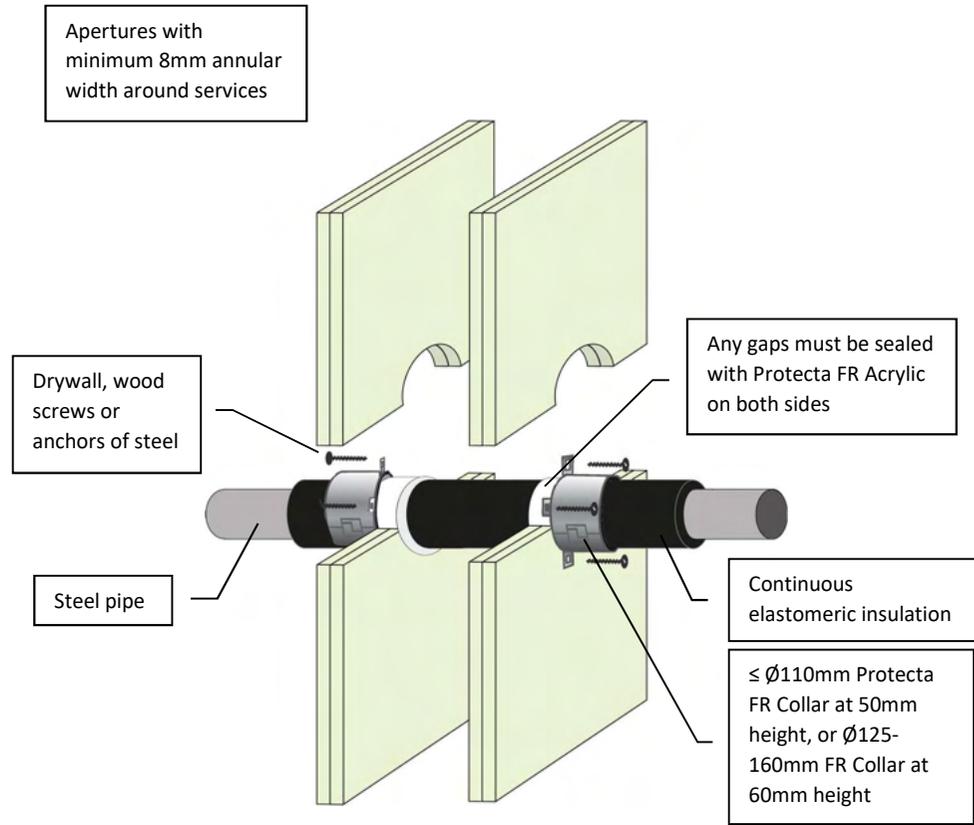
Signed and approved:

Sheet size: **A4** Drawn date & no: 23/4/15

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}54\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 62 dB

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ETA 21/0070

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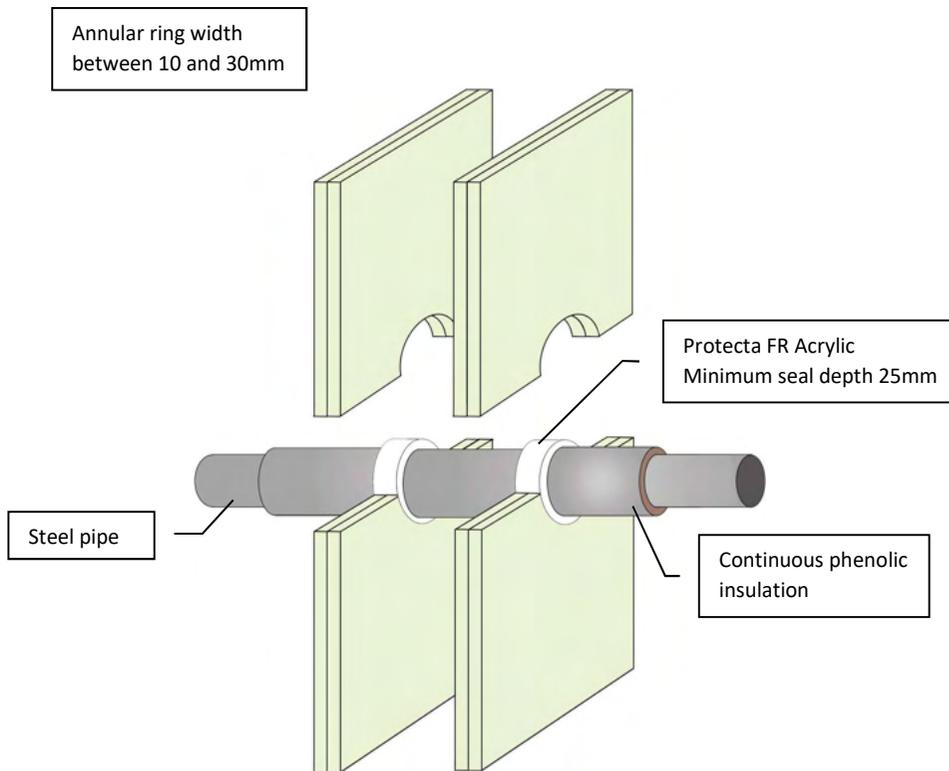
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Sheet size: **A4** Drawn date & no: 22/8/21

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

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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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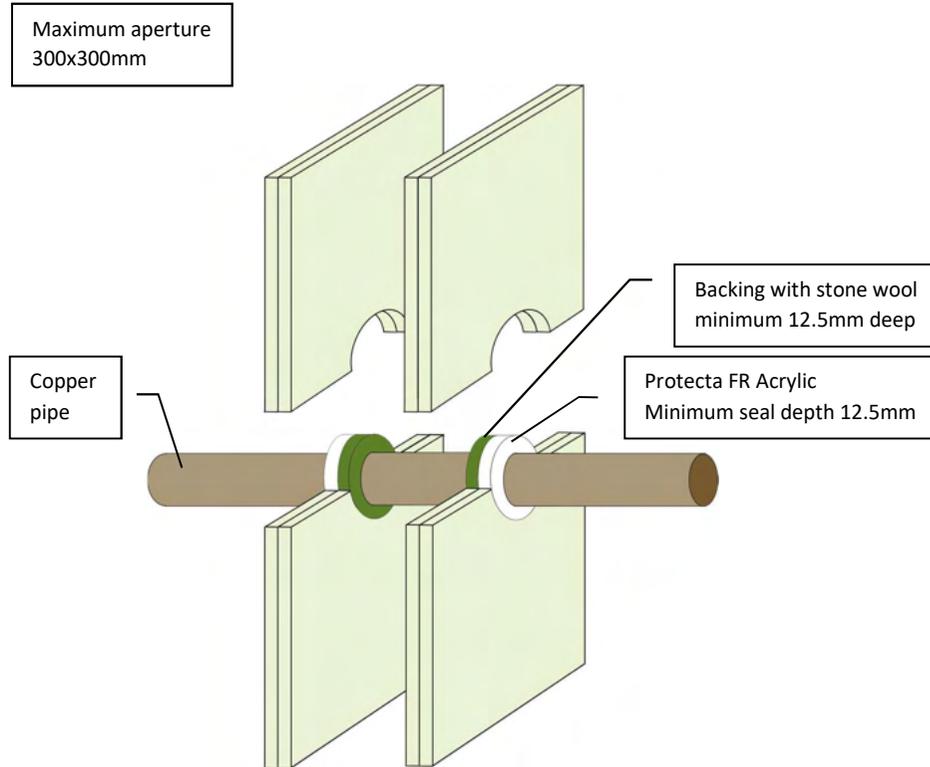
Signed and approved:

Sheet size: **A4** Drawn date & no: **18/8/21**

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.



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



Polyseam Ltd, 15 St Andrews Road,
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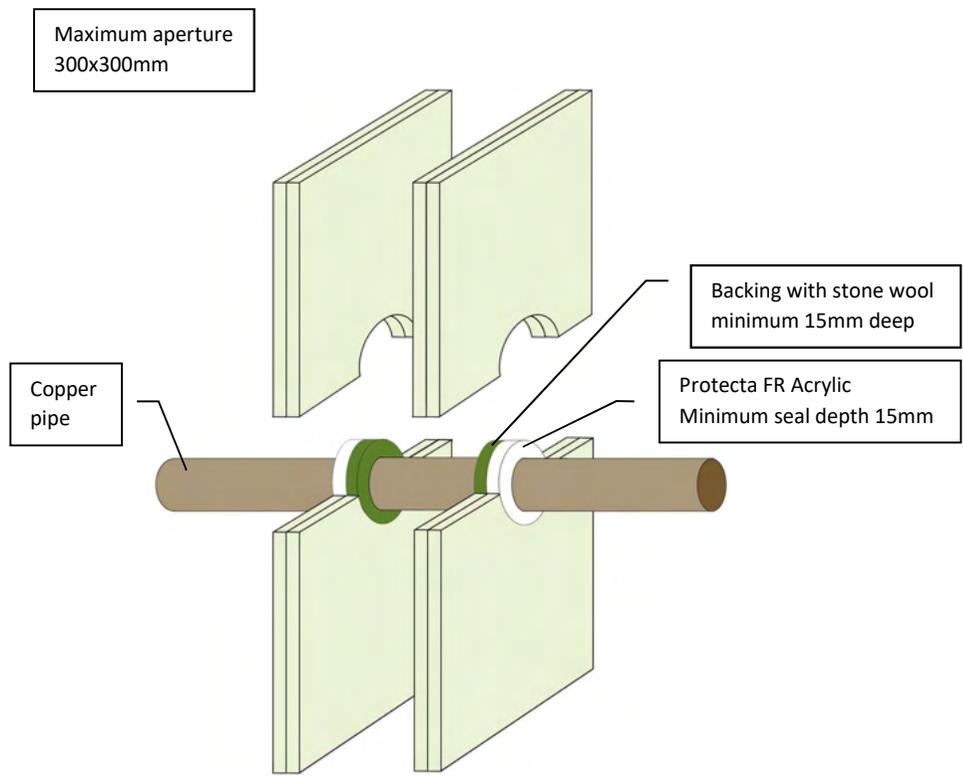
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Client:

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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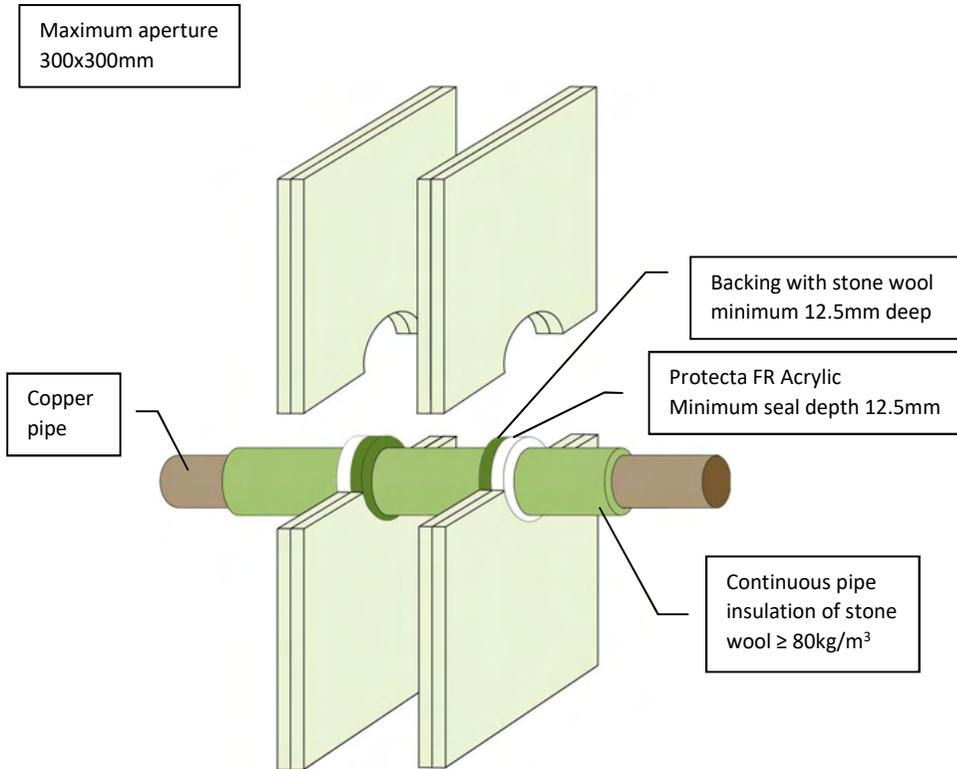
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Client:

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
EI 60 C/C & E 120

Sound reduction (seal only)
Rw 62dB

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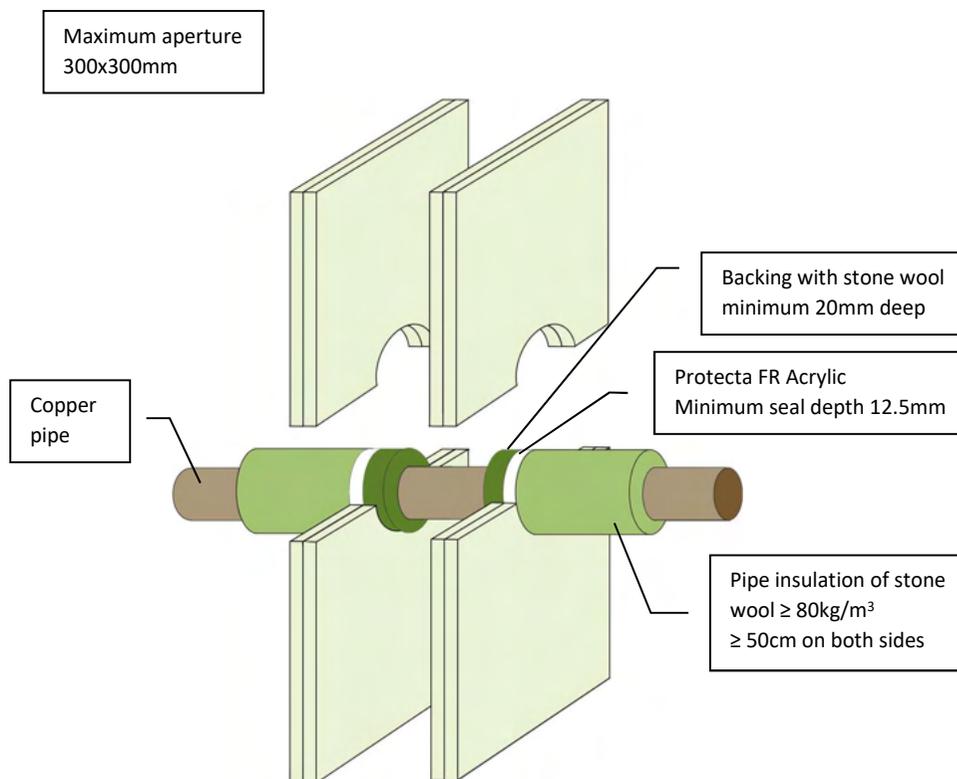
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Client:

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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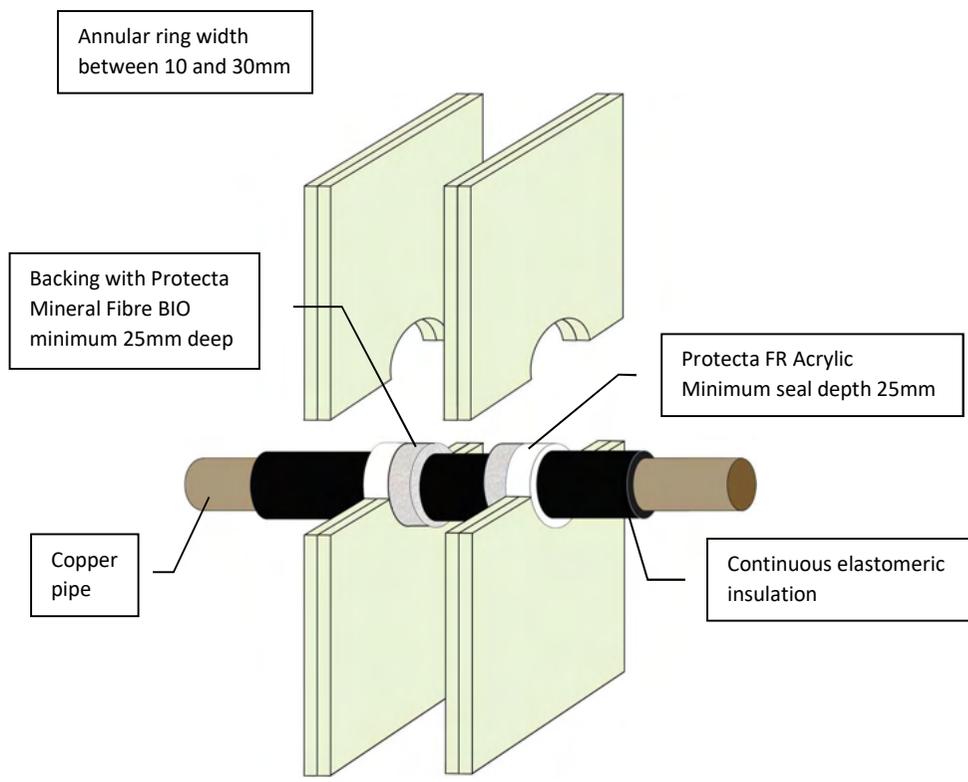
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Installation Instructions

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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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 – 13mm thick pipe insulation	EI 60 C/C & E 120
Copper pipe ≤ Ø54mm with 14 – 25mm thick pipe insulation	EI 60 C/C & E 60
Sound reduction (seal only)	Rw 62dB



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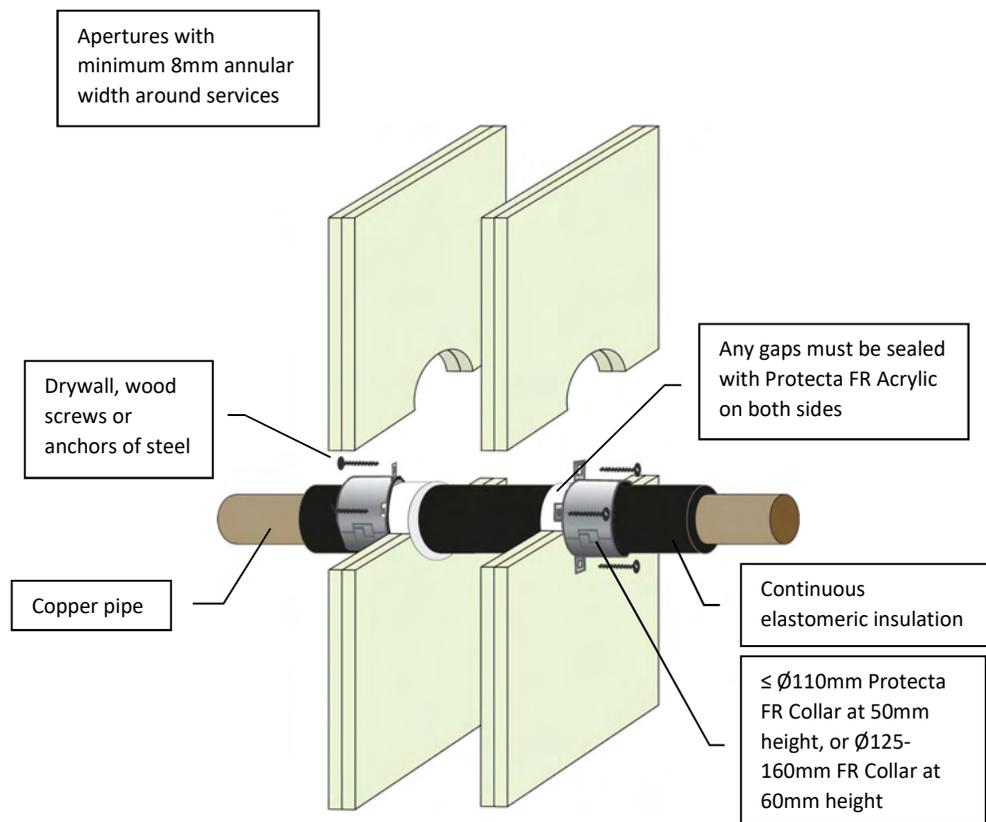
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Scale: **NTS** Drawn by: **K.B**

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}54\text{mm}$ with 14 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 62 dB

Protecta[®]

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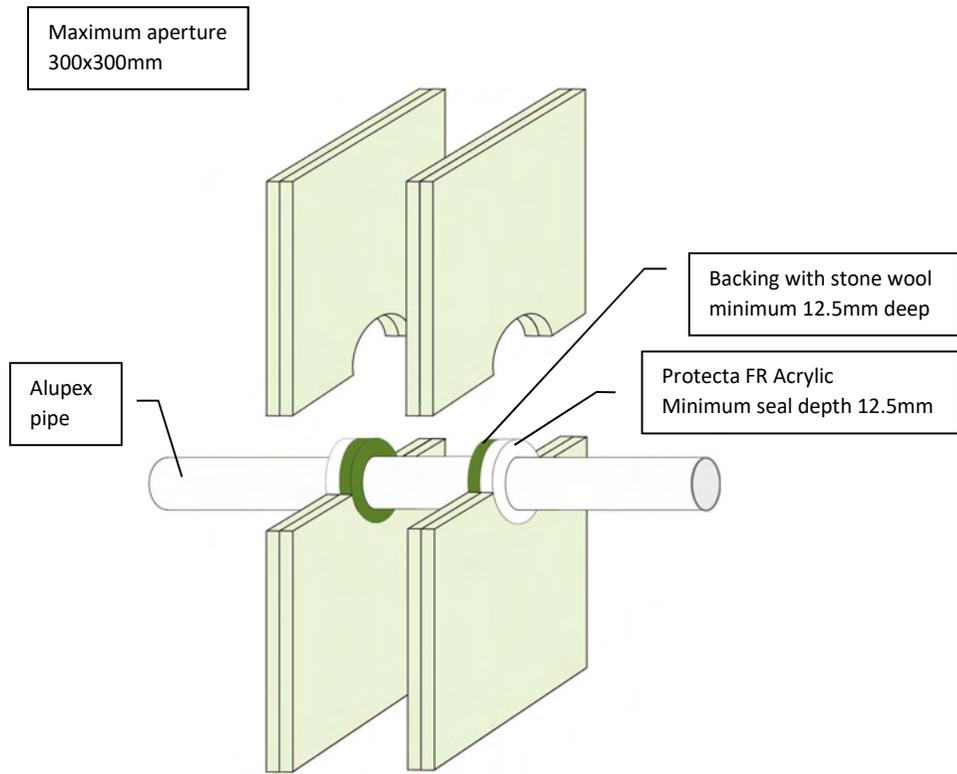
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Installation Instructions

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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.
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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 alkylid (gloss) paints.



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

Protecta®

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Huddersfield, West Yorkshire, HD1 6SB
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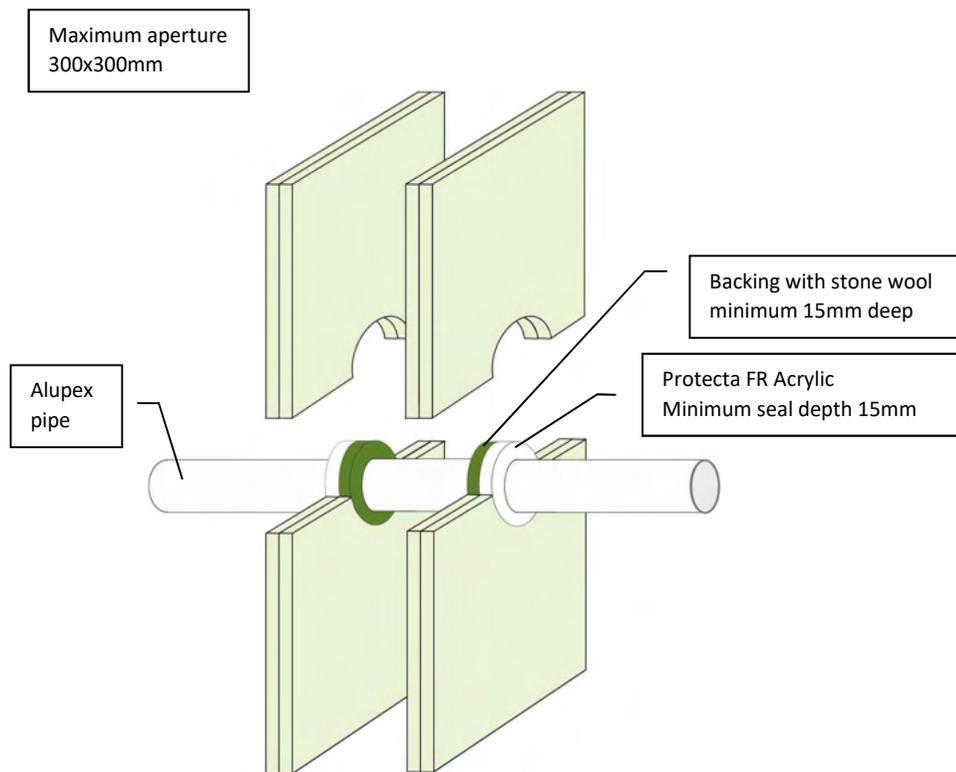
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Installation Instructions

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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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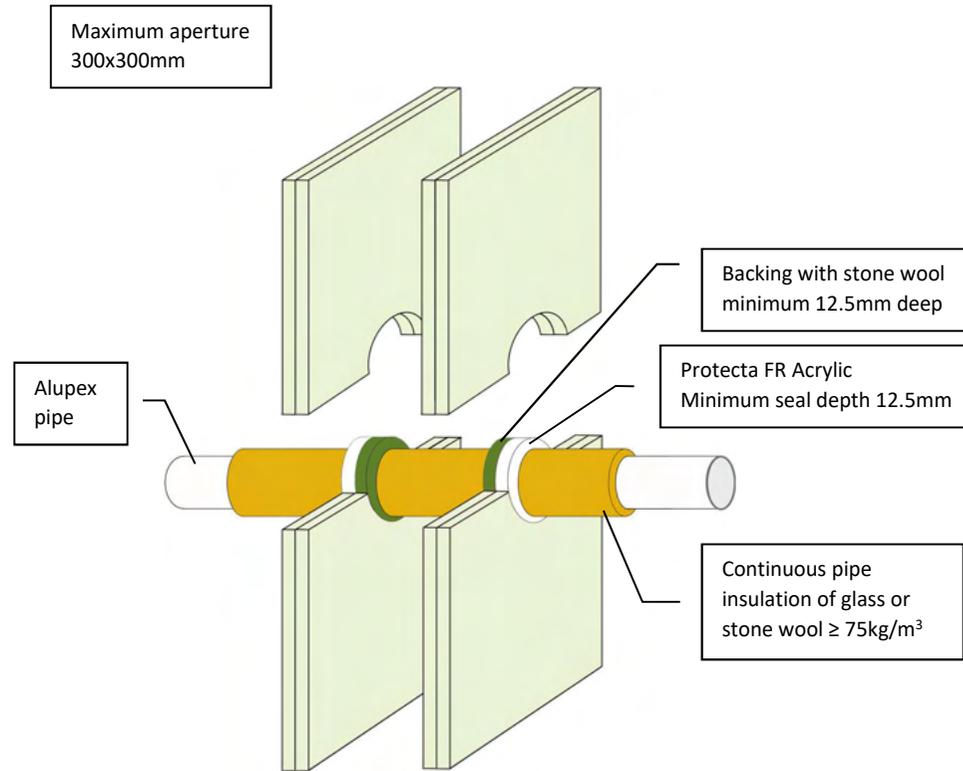
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Client:

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

Sound reduction (seal only)
Rw 62dB

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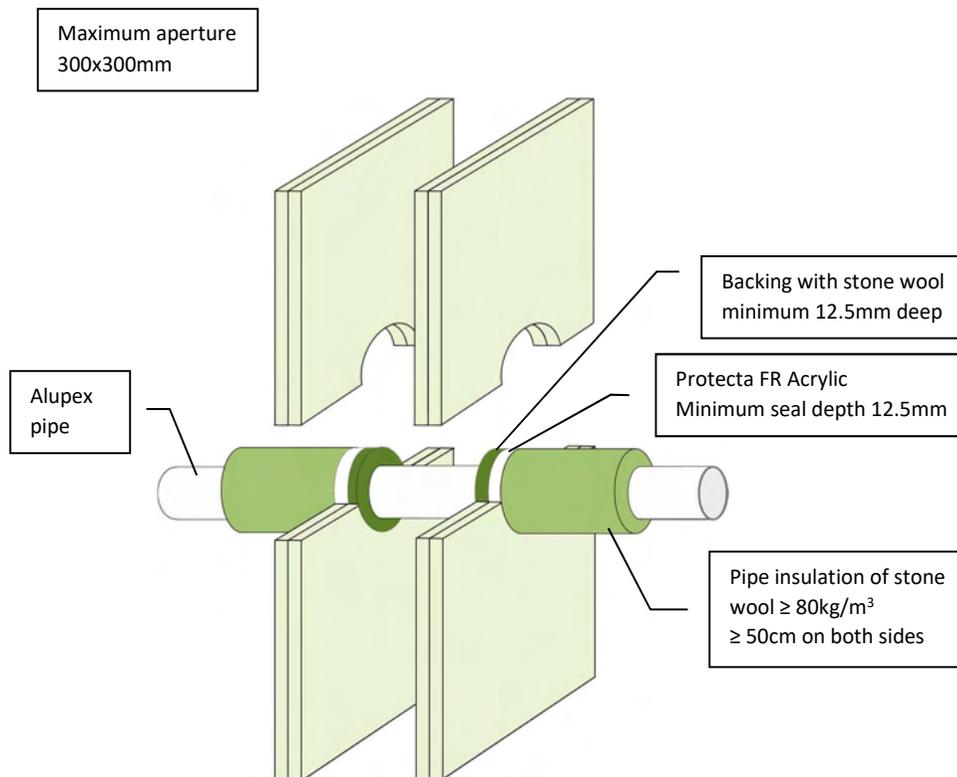
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Client:

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
EI 120 C/C & E 120

Sound reduction (seal only)
Rw 62dB

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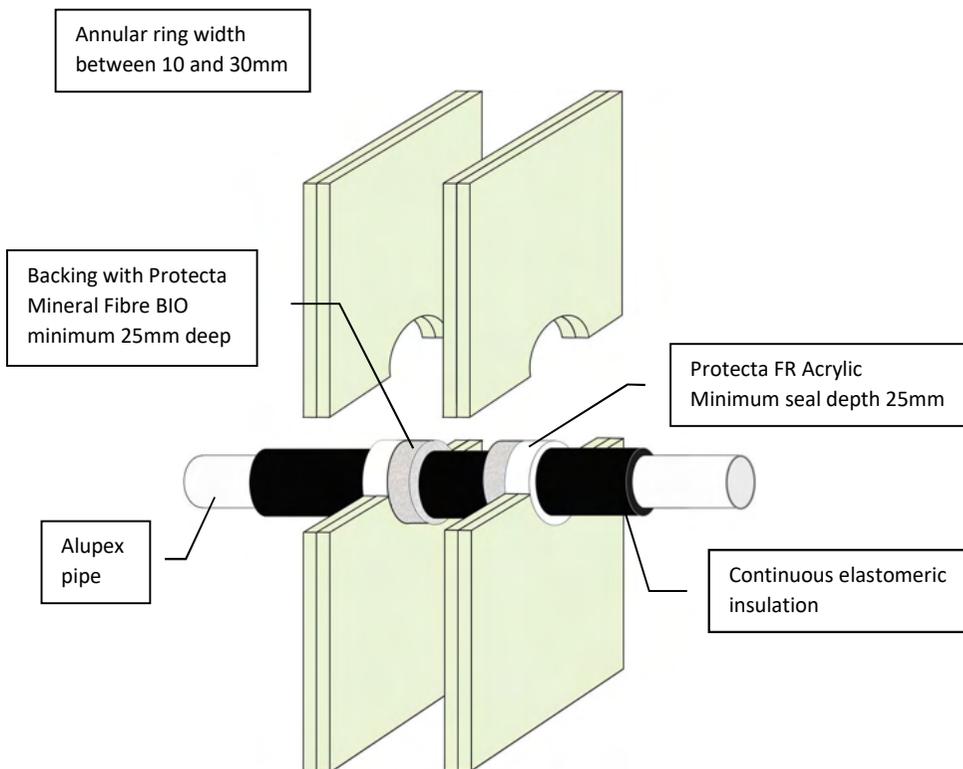
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



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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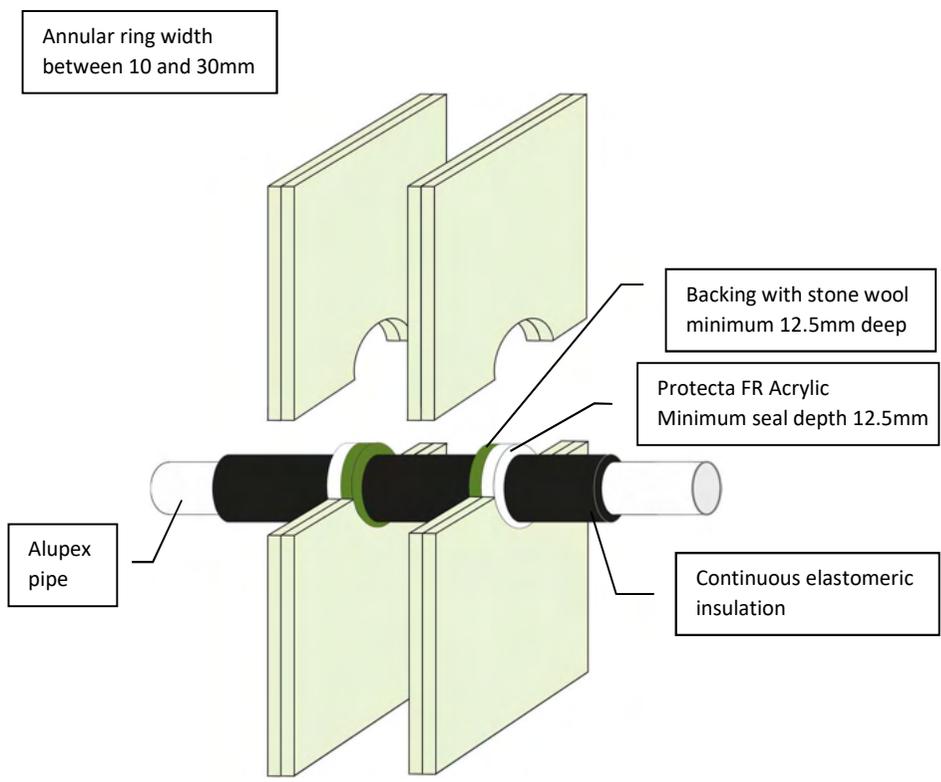
Signed and approved:

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.



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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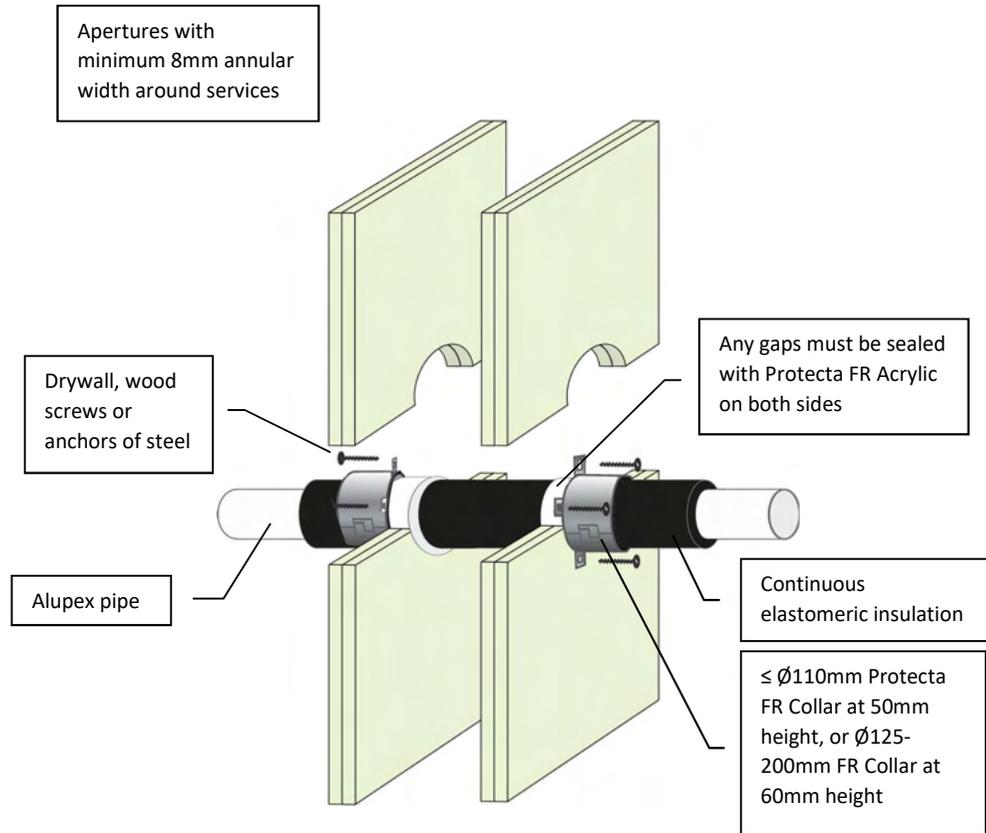
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Scale: NTS	Drawn by: K.B

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}75\text{mm}$ with 9 – 50mm thick pipe insulation
EI 60 C/C & E 90

Sound reduction (seal only)
Rw 62 dB

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ETA 21/0070

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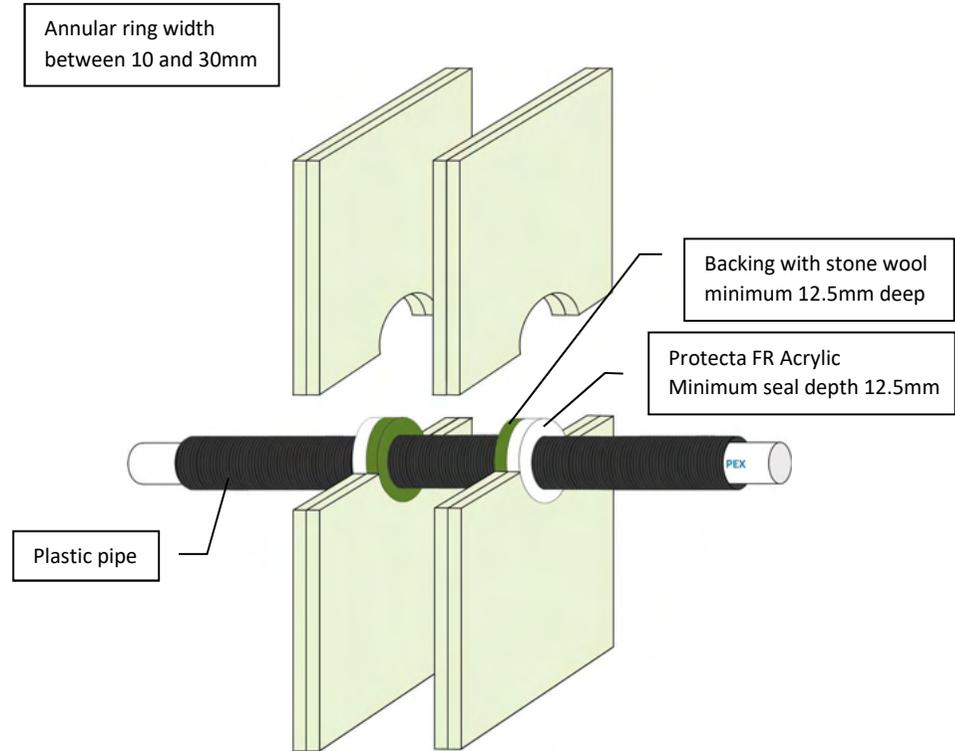
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Sheet size: **A4** Drawn date & no: 22/8/21

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.



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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ETA 21/0035

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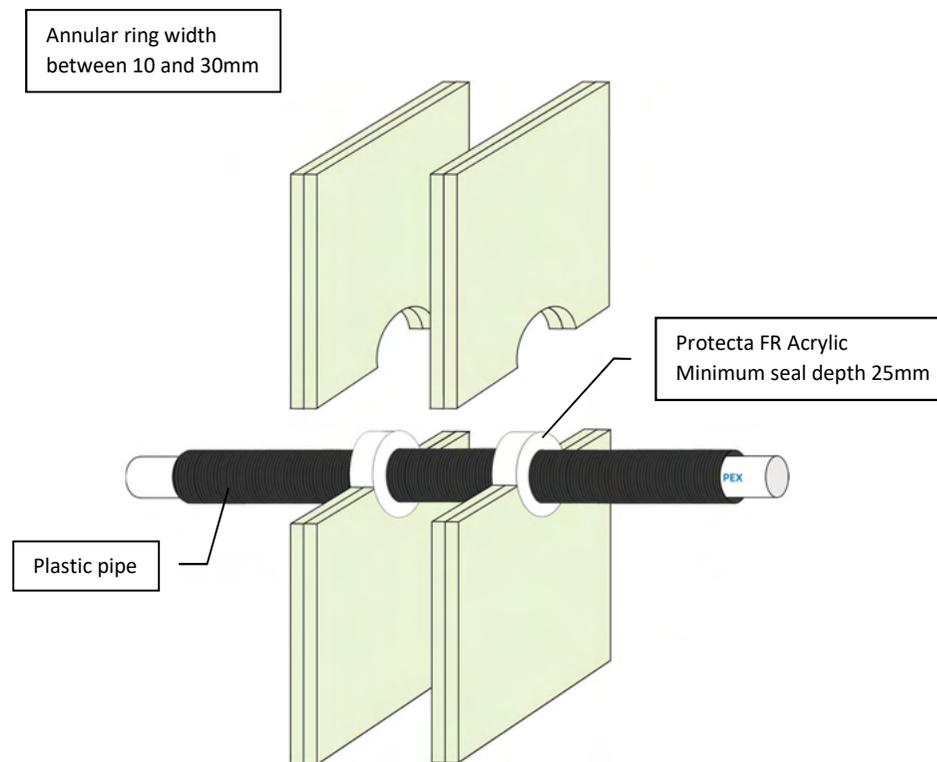
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Scale: **NTS** Drawn by: **K.B**

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 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.



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 $\leq \text{Ø}54\text{mm}$	IE 45 C/C & E 60
Sound reduction (seal only)	Rw 62dB

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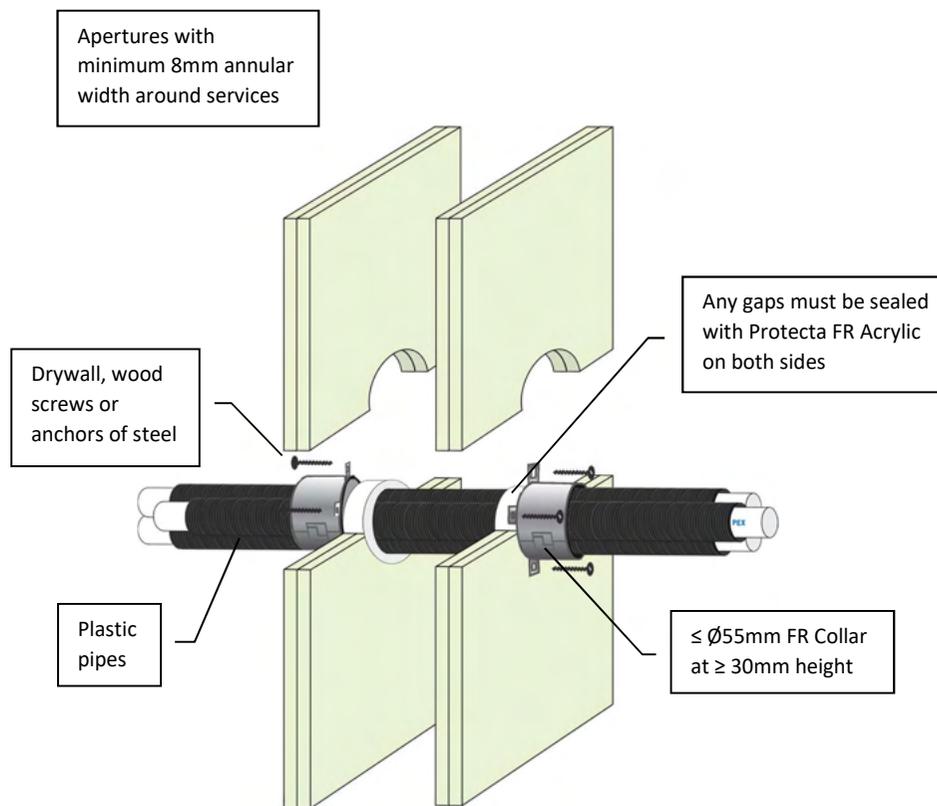
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Scale:	Drawn by:
NTS	K.B

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



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 pipe-in-pipes $\leq \text{Ø}25\text{mm}$, single, or in a bundle $\leq \text{Ø}55\text{mm}$ EI 90 C/C & E 120

Sound reduction (seal only) Rw 62 dB

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ETA 21/0070

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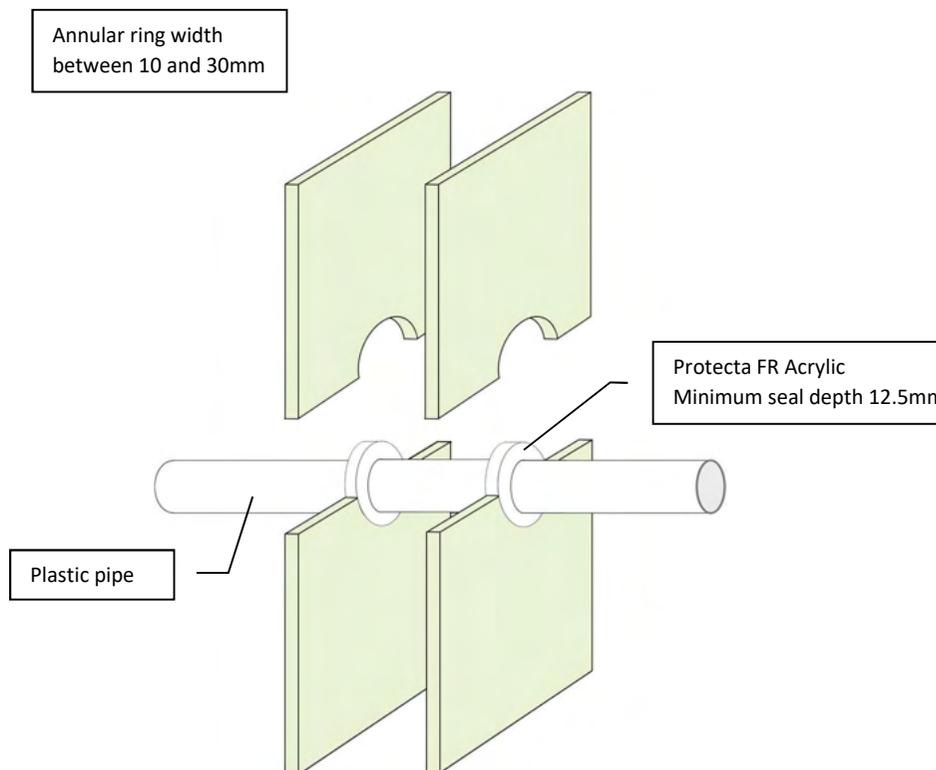
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Sheet size: **A4** Drawn date & no:
25/8/21

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.



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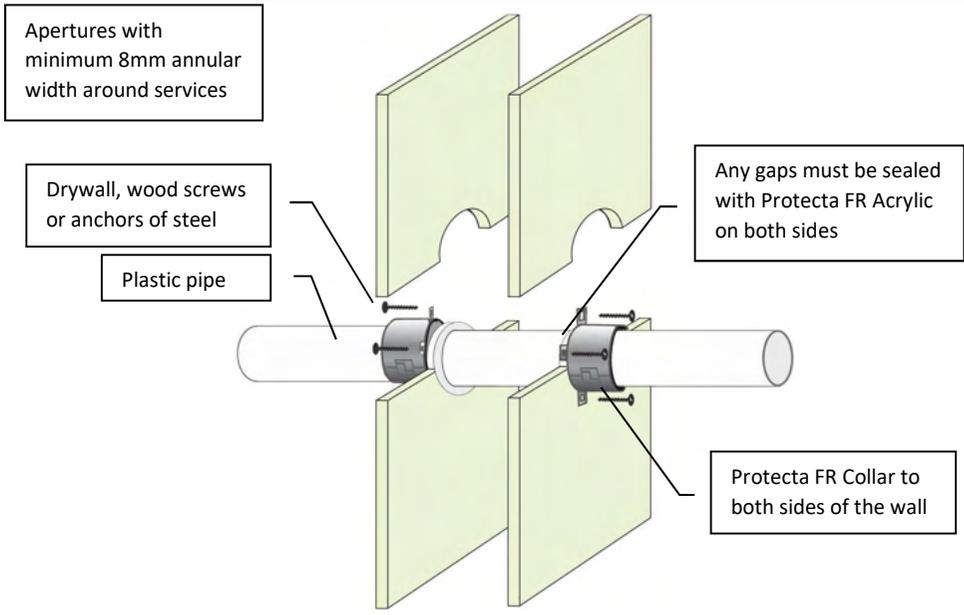
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
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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 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)

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

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Sheet size: **A4** Drawn date & no: **25/8/21**

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



ETA 21/0070

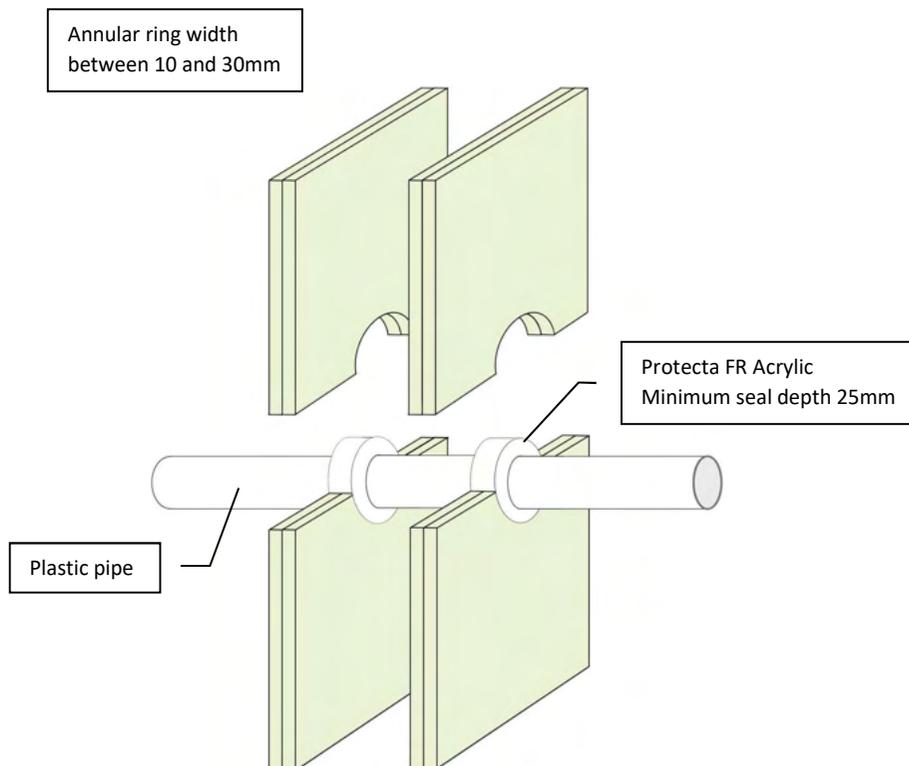
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Signed and approved:

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.



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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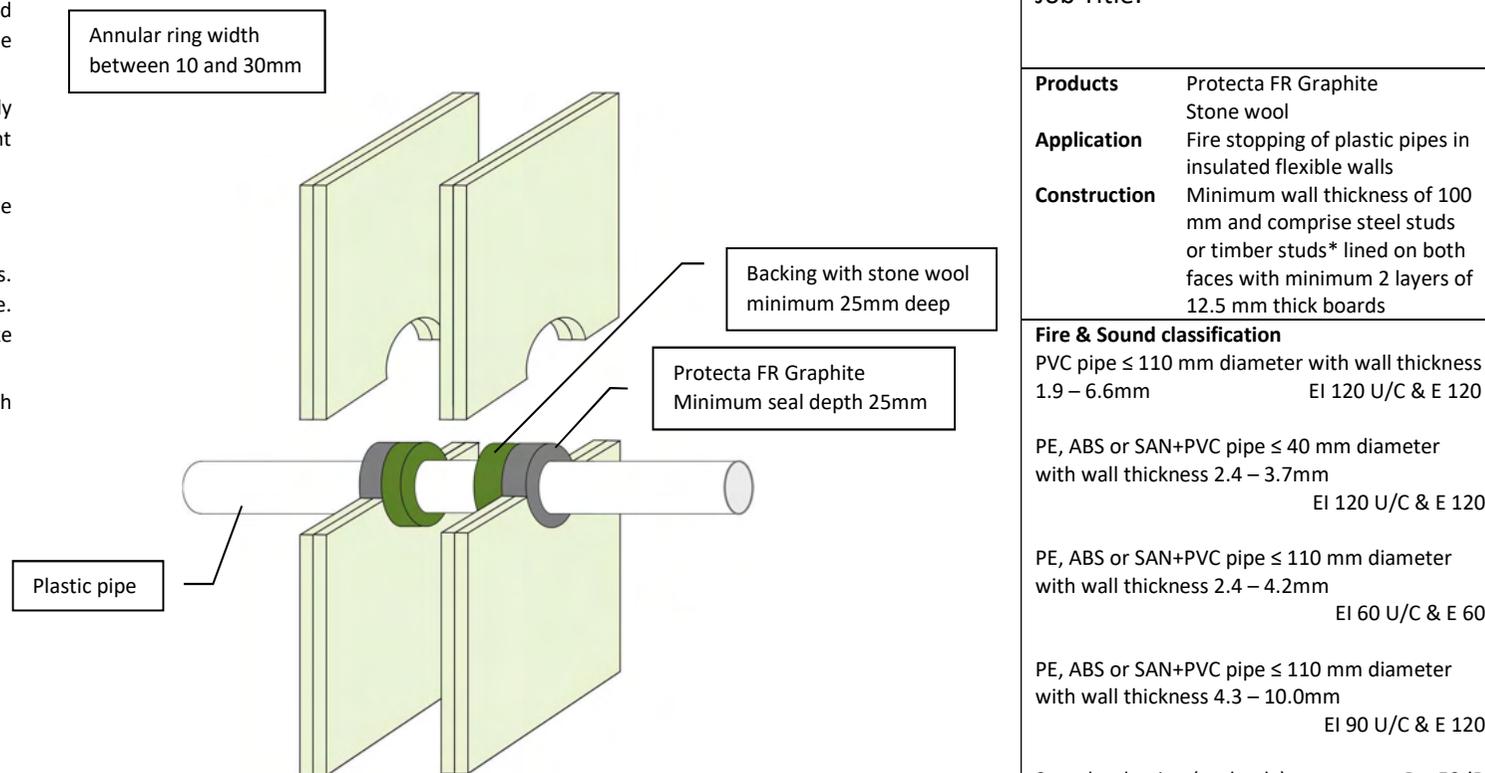

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Installation Instructions

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.



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



ETA 21/0040



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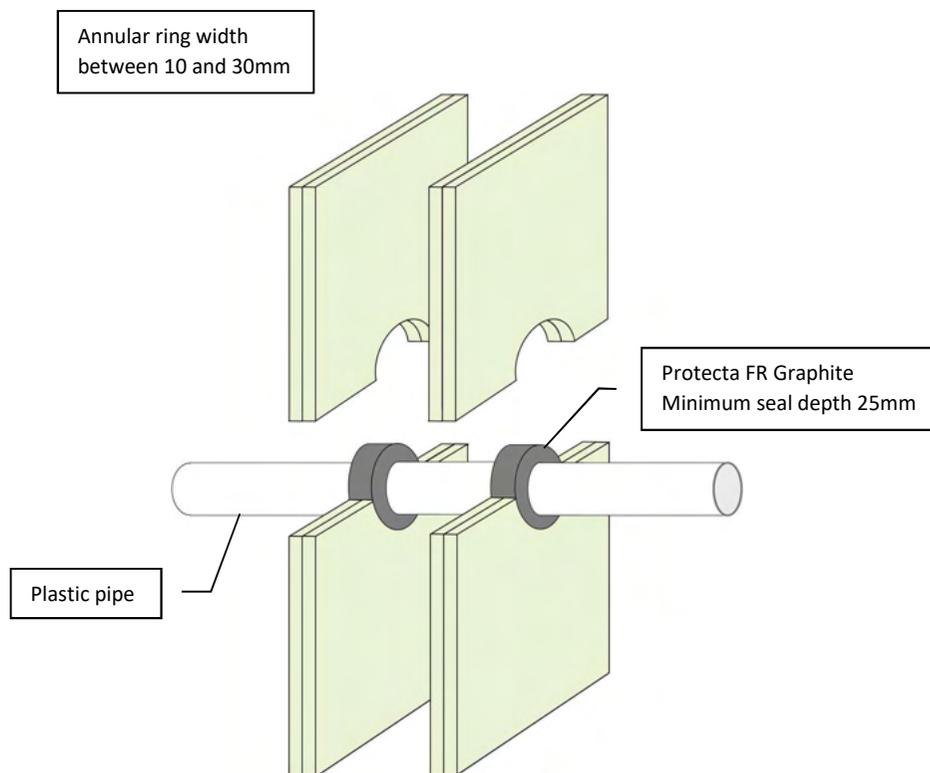
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Installation Instructions

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.



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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ETA 21/0040

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A4	11/11/18

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.

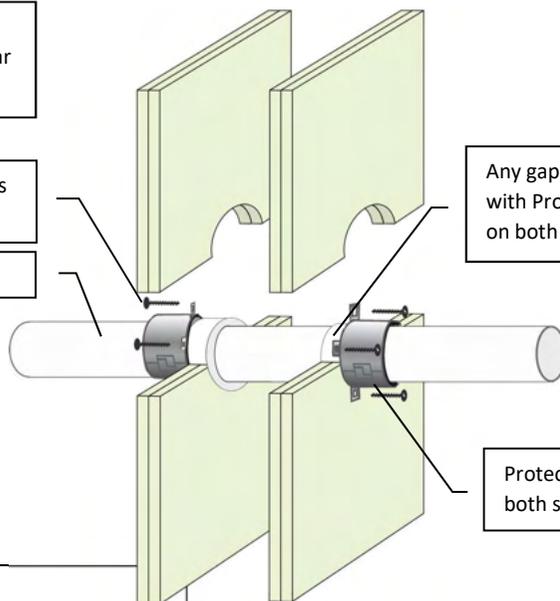
Apertures with minimum 8mm annular width around services

Drywall, wood screws or anchors of steel

Plastic pipe

Any gaps must be sealed with Protecta FR Acrylic on both sides

Protecta FR Collar to both sides of the wall



Services	Minimum Collar Height	Classification
$\leq \text{Ø}50\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PVC-U & PVC-C	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}140\text{mm}$ PVC-U & PVC-C	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PVC-U & PVC-C	60mm	EI 90 C/C, EI 90 U/C, EI 60 C/U, EI 60 U/U
$\leq \text{Ø}200\text{mm}$ PVC-U & PVC-C	60mm	EI 120 C/C, EI 120 U/C
$\leq \text{Ø}315\text{mm}$ PVC-U & PVC-C	75mm	EI 90 C/C
$\leq \text{Ø}400\text{mm}$ PVC-U & PVC-C	100mm	EI 90 C/C (E 120)
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}50\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U (E 120)
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	30mm	EI 60 C/C, EI 60 U/C
$\leq \text{Ø}110\text{mm}$ PE, ABS & SAN+PVC	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}140\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\text{Ø}160\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C, EI 90 C/U, EI 90 U/U
$\leq \text{Ø}200\text{mm}$ PE, ABS & SAN+PVC	60mm	EI 90 C/C, EI 90 U/C (E 120)
$\text{Ø}400 \times 36.3\text{mm}$ PE, ABS & SAN+PVC	100mm	EI 90 C/C
$\leq \text{Ø}50\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}110\text{mm}$ PP	30mm	EI 60 C/C, EI 60 U/C (E 90)
$\leq \text{Ø}110\text{mm}$ PP	50mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U (E 90)
$\leq \text{Ø}160\text{mm}$ PP	60mm	EI 60 C/C, EI 60 U/C, EI 60 C/U, EI 60 U/U
$\leq \text{Ø}200\text{mm}$ PP	60mm	EI 90 C/C, EI 90 U/C (E 120)
$\text{Ø}400 \times 22.7\text{mm}$ PP	100mm	EI 60 C/C



ETA 21/0070



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Sheet size: **A4**
Drawn date & no: **24/8/21**

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

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

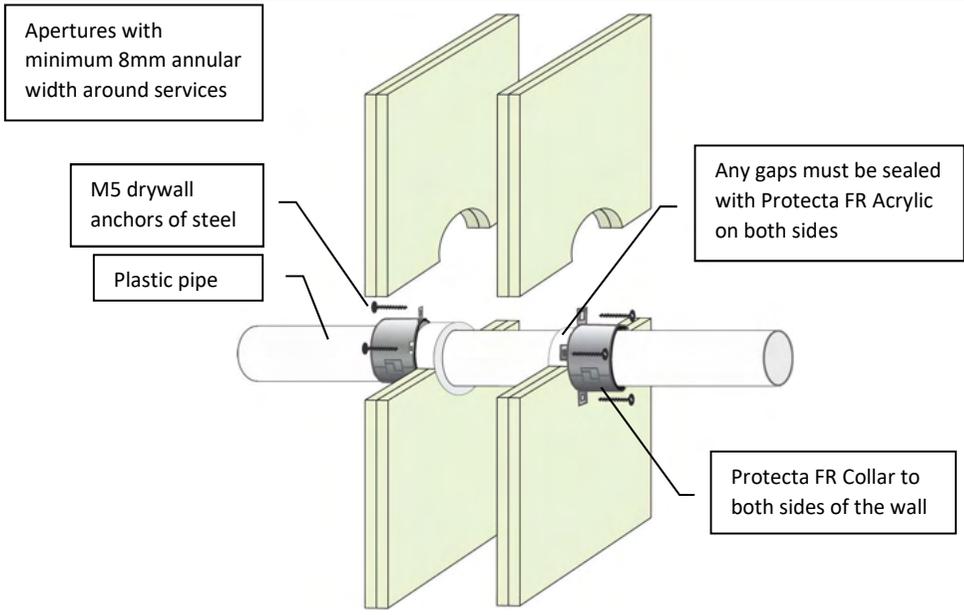
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

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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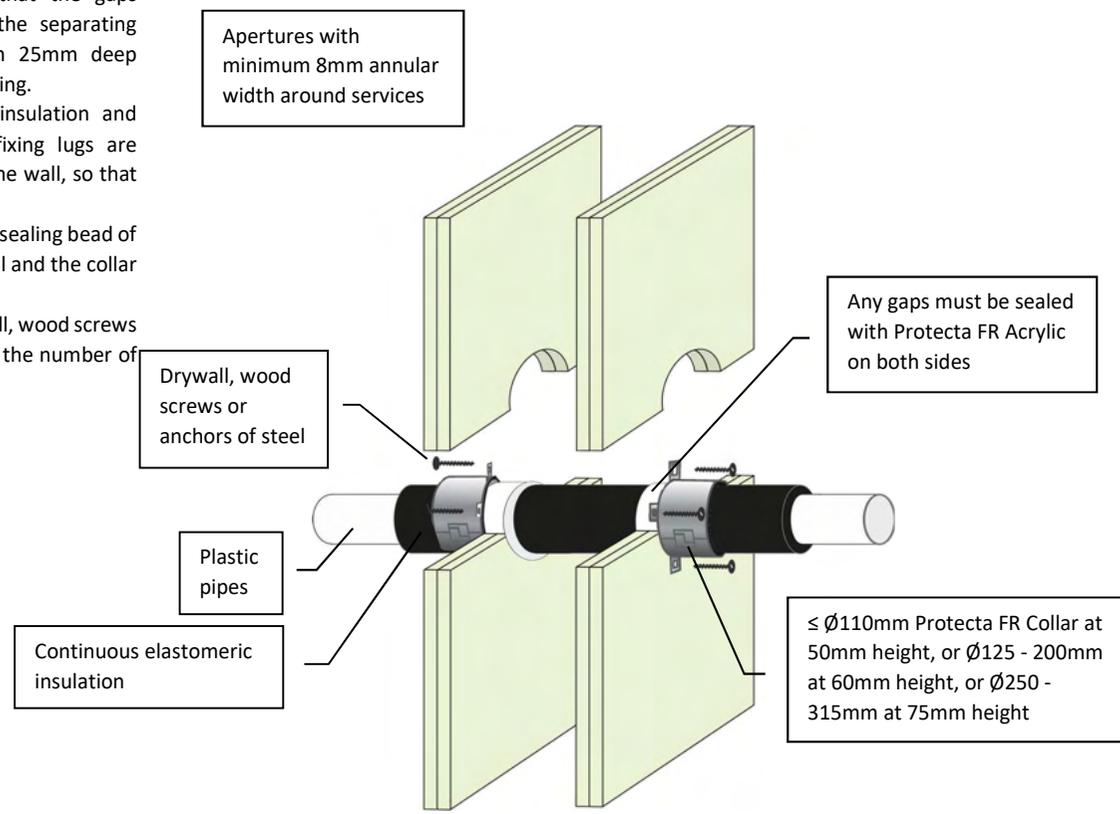
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Sheet size: **A4** Drawn date & no: **24/8/21**

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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors of steel



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 $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 – 9.5mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PE pipe $\text{Ø}160\text{mm}$ with wall thickness 4.9 – 9.5mm and 9 – 50mm thick pipe insulation
EI 120 C/C & E 120

PP pipe $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 14.6mm and 9 – 50mm thick pipe insulation
EI 90 C/C & E 90

PP pipe $\text{Ø}160\text{mm}$ 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



ETA 21/0070

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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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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 pipe and the separating element are sealed with minimum 25mm deep Protecta FR Acrylic to cover the opening.
2. Place a suitable collar around the pipe and ensure that the collar shell and fixing lugs are positioned tightly to the surface of the wall, so that the fixings can be inserted fully.
3. Where the surface is uneven, apply a sealing bead of Protecta® FR Acrylic between the wall and the collar shell.
4. Attach the collar with $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.

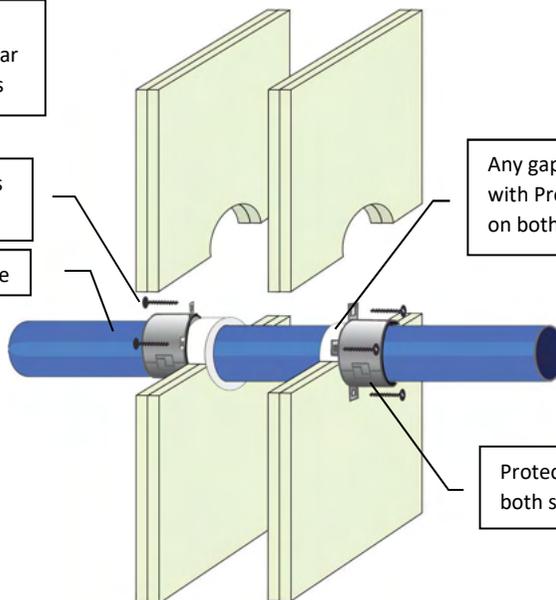
Apertures with minimum 8mm annular width around services

Drywall, wood screws or anchors of steel

Composite plastic pipe

Any gaps must be sealed with Protecta FR Acrylic on both sides

Protecta FR Collar to both sides of the wall



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



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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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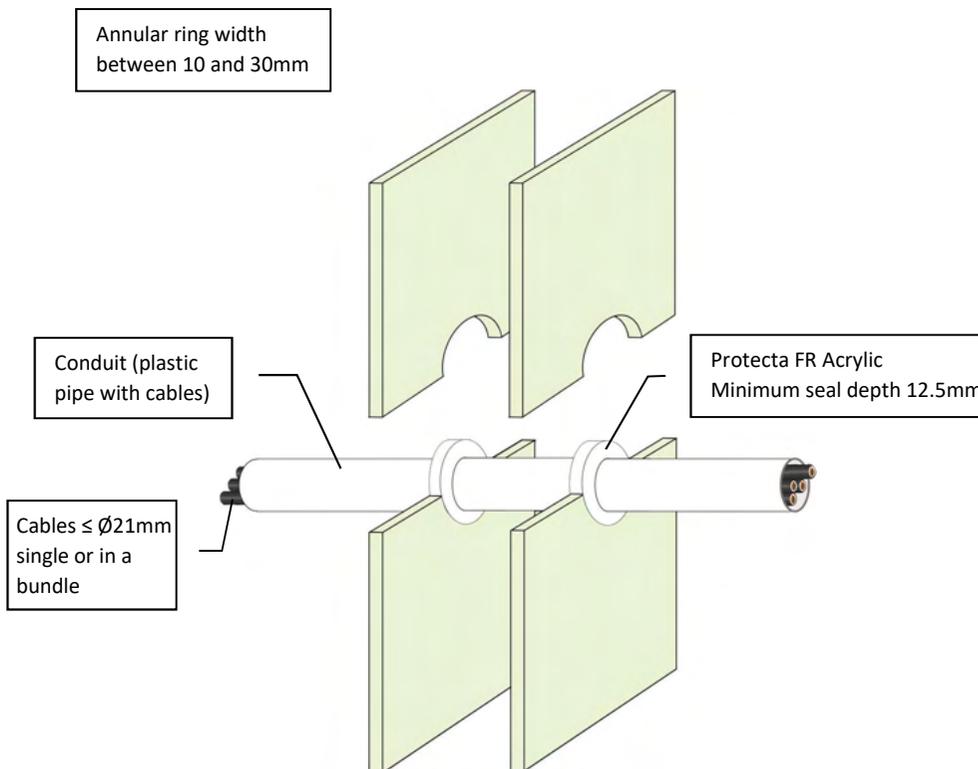
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 25/8/21

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.



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

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ETA 21/0035

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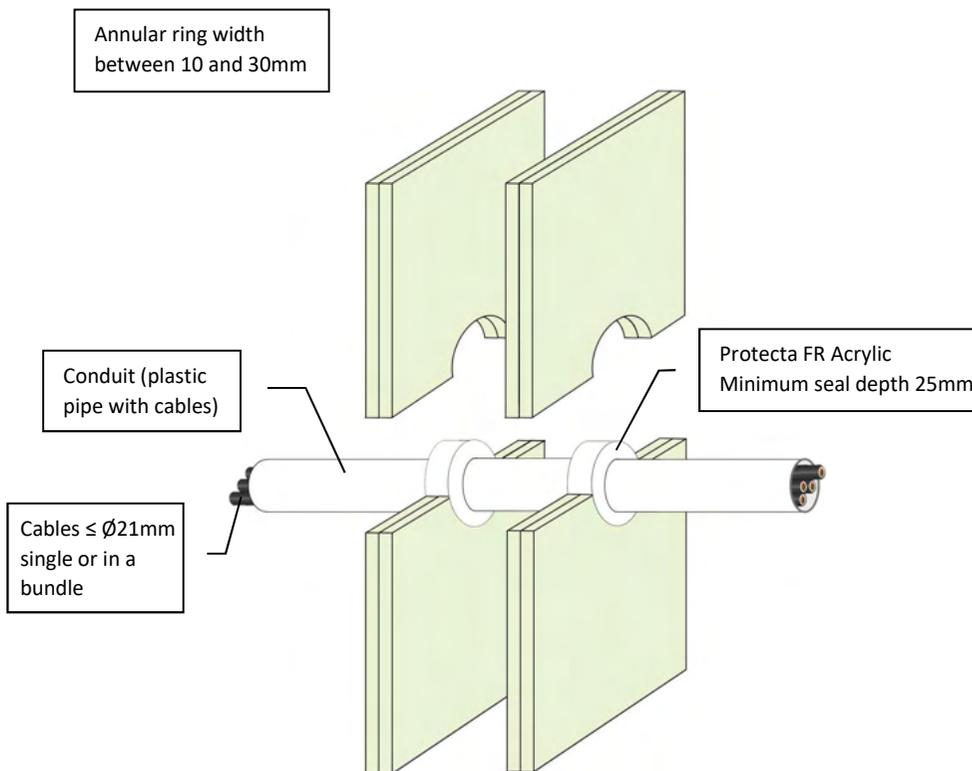
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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

Installation Instructions

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.



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

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ETA 21/0035

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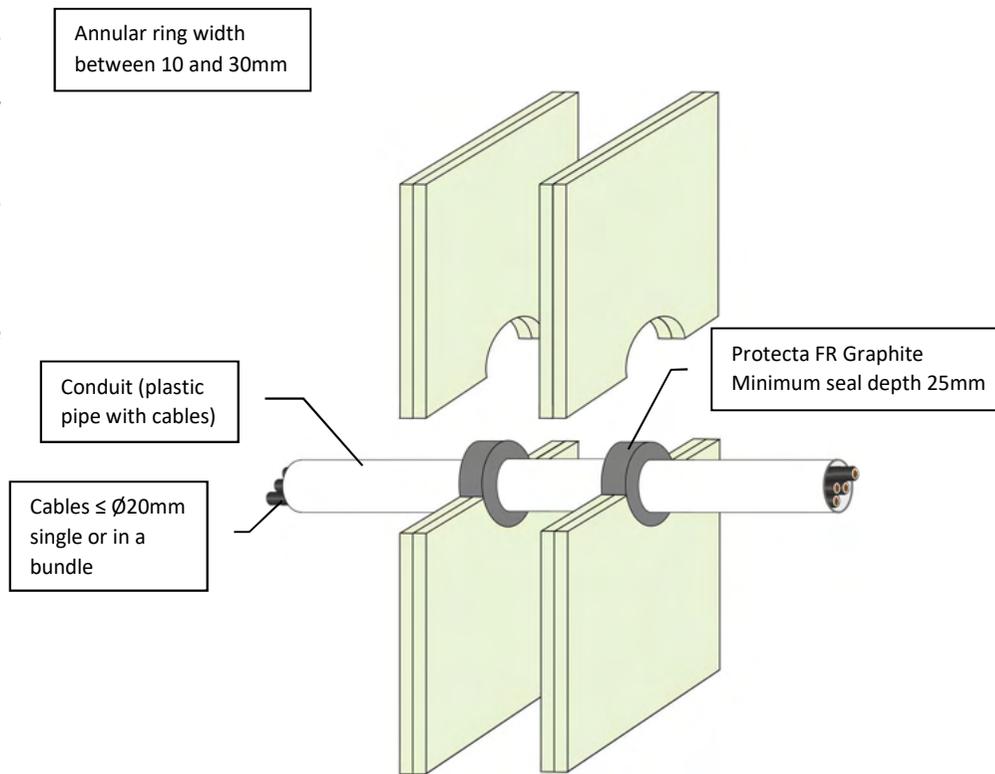
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Signed and approved:

Sheet size:	Drawn date & no:
A4	14/8/19
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.



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

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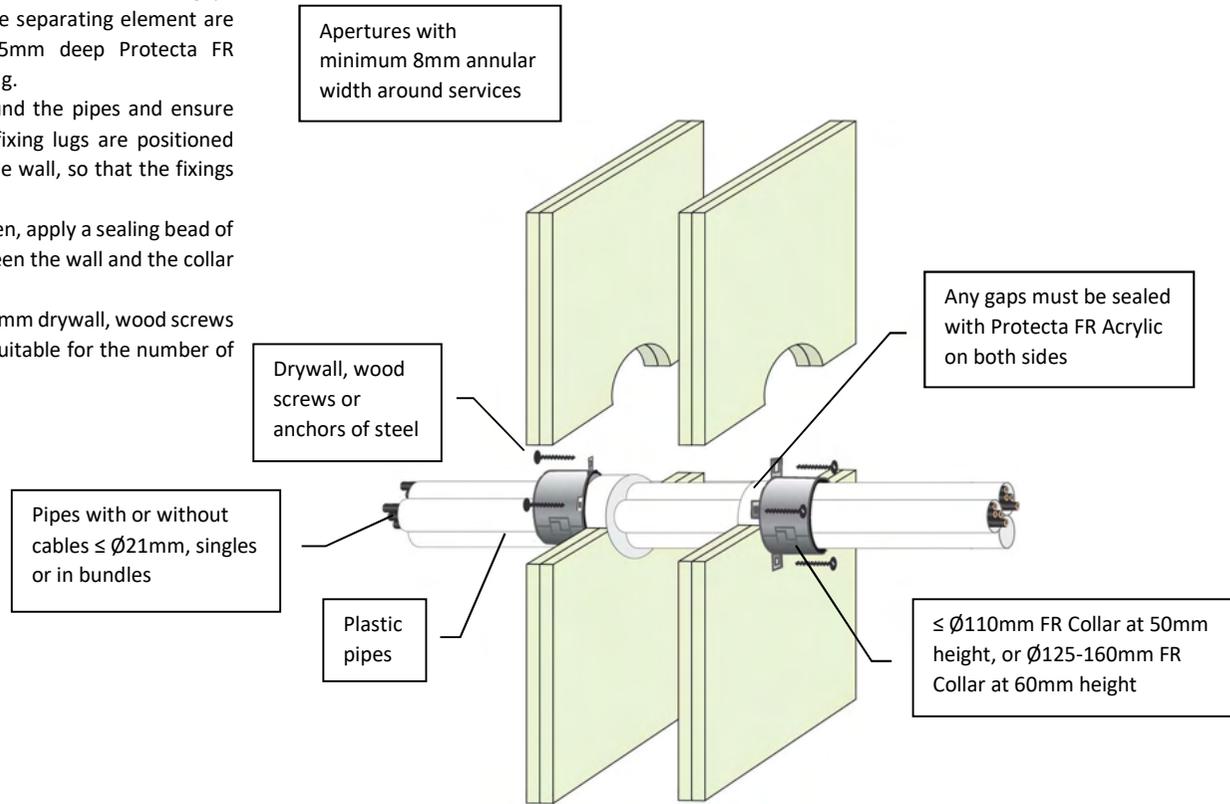
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size:	Drawn date & no:
A4	11/11/18
Scale:	Drawn by:
NTS	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 $\geq \text{Ø}4\text{mm}$ drywall, wood screws or anchors with a length suitable for the number of boards that form the wall.



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 $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.0 – 3.7mm
EI 90 U/C & E 90

PE & ABS pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 2.0 – 3.7mm
EI 90 U/C & E 90

PP pipes $\leq \text{Ø}40\text{mm}$, single, or in a bundle $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 – 3.7mm
EI 90 U/C & E 90

Sound reduction (seal only) Rw 62 dB

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ETA 21/0070

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Signed and approved:

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Scale: NTS	Drawn by: K.B

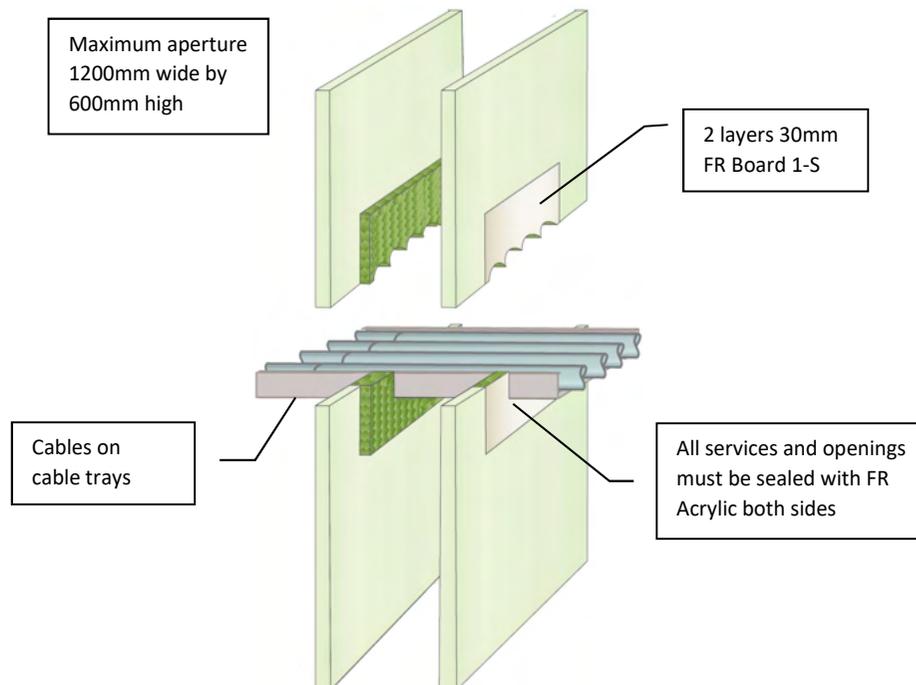
Appendix III

-

Service penetration solutions in larger apertures

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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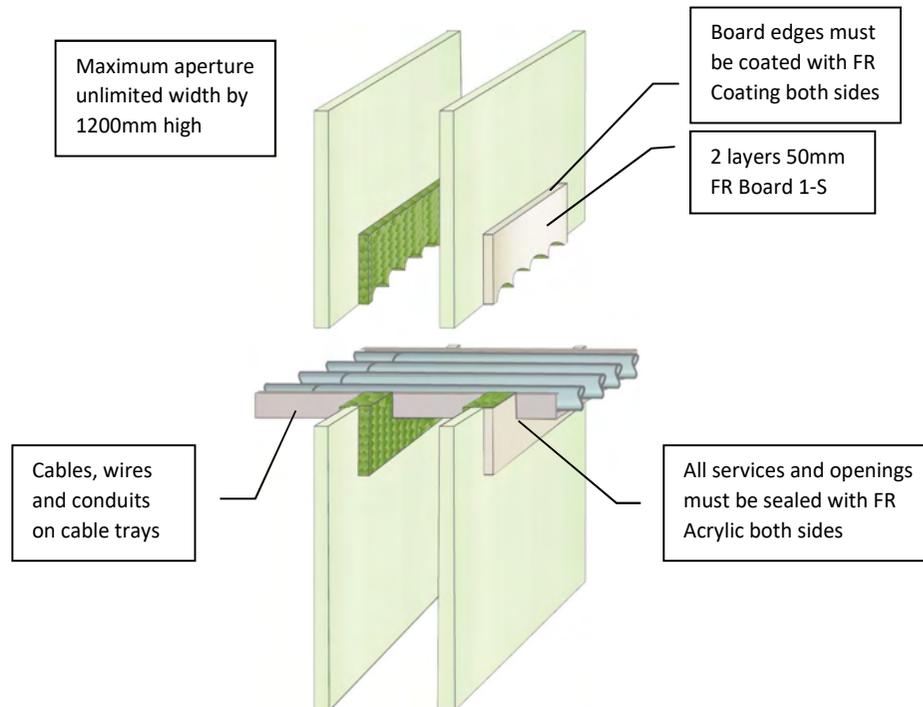
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of cables on cable trays 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	
Cables ≤ Ø21mm single or bundled with or without trays	EI 45 & E 45
Cables ≤ Ø80mm single or bundled with or without trays	EI 30 & E 45
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	26/7/17
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Coating

Application Fire stopping of cables, wires and conduits on cable trays 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
Cables ≤ Ø21mm single and bundled, and steel and plastic conduits ≤ Ø16mm with or without trays
EI 60 & E 60

Cables ≤ Ø80mm single and bundled, non-sheathed conductors ≤ 185mm² and copper conduits ≤ Ø16mm, with or without trays
EI 30 & E 60

Sound reduction (seal only) 52 dB

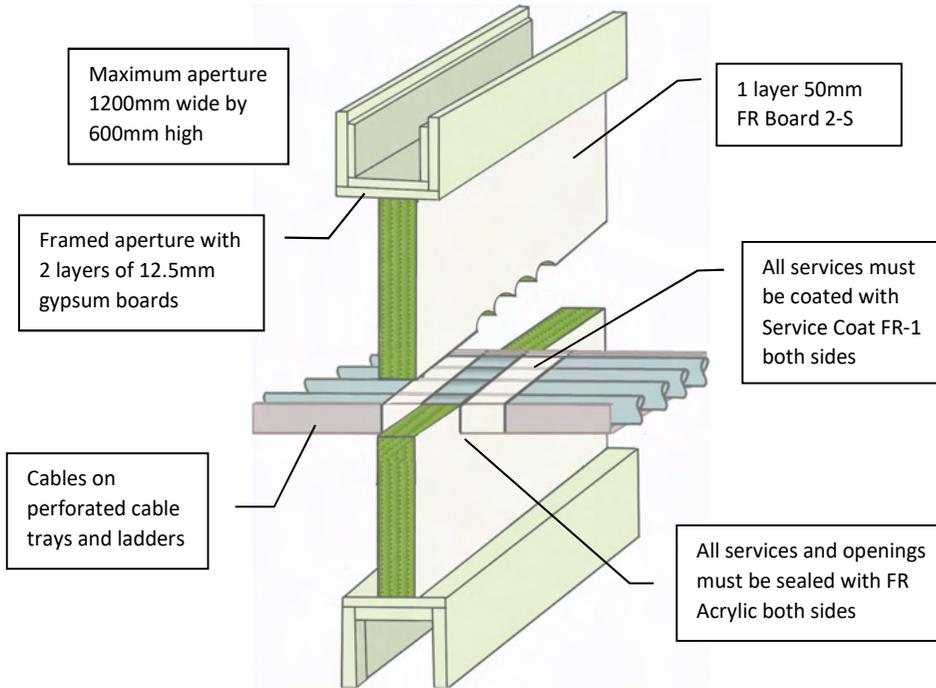
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 27/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. All cables and cable trays must be coated 150mm each side with 300µ WFT Protecta Service Coat FR-1.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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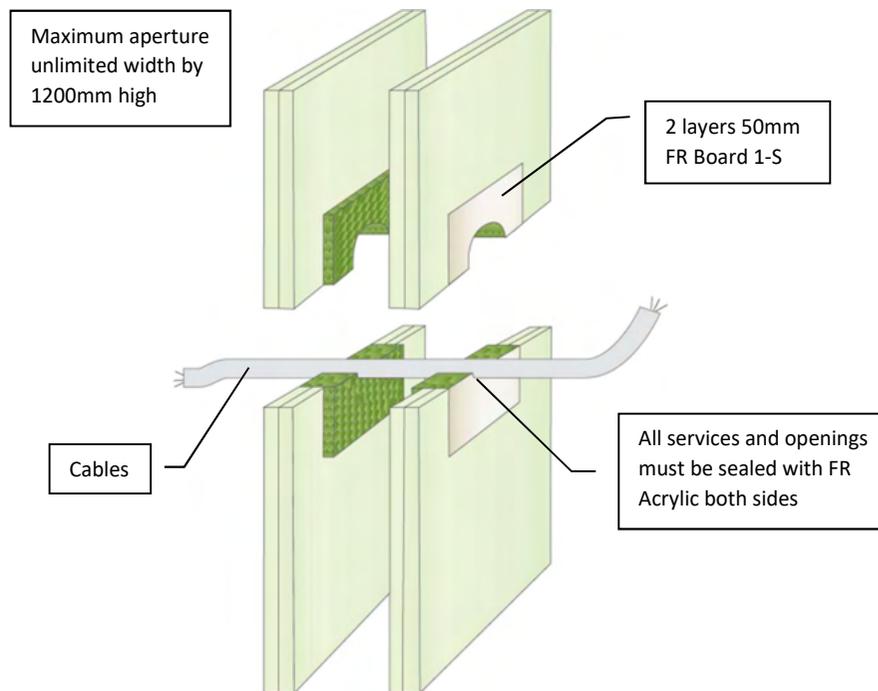
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta ServiceCoat FR-1
Application	Fire stopping of cables and conductors on 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 ≤ Ø80mm single or bundled with or without perforated cable trays and ladders EI 60 & E 60	
Non-sheathed conductors ≤ 185mm ² with or without trays EI 45 & E 60	
Sound reduction (seal only) 29 dB	
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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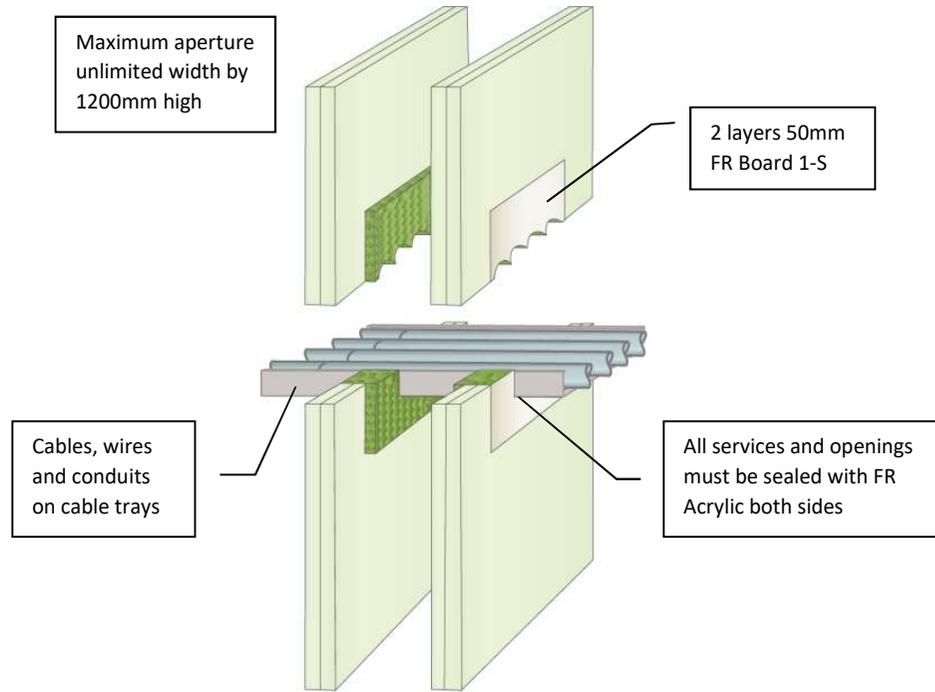
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board 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 ≤ Ø21mm	EI 60 & E 120
Sound reduction (seal only)	52 dB
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Sheet size:	Drawn date & no:
A4	20/4/15
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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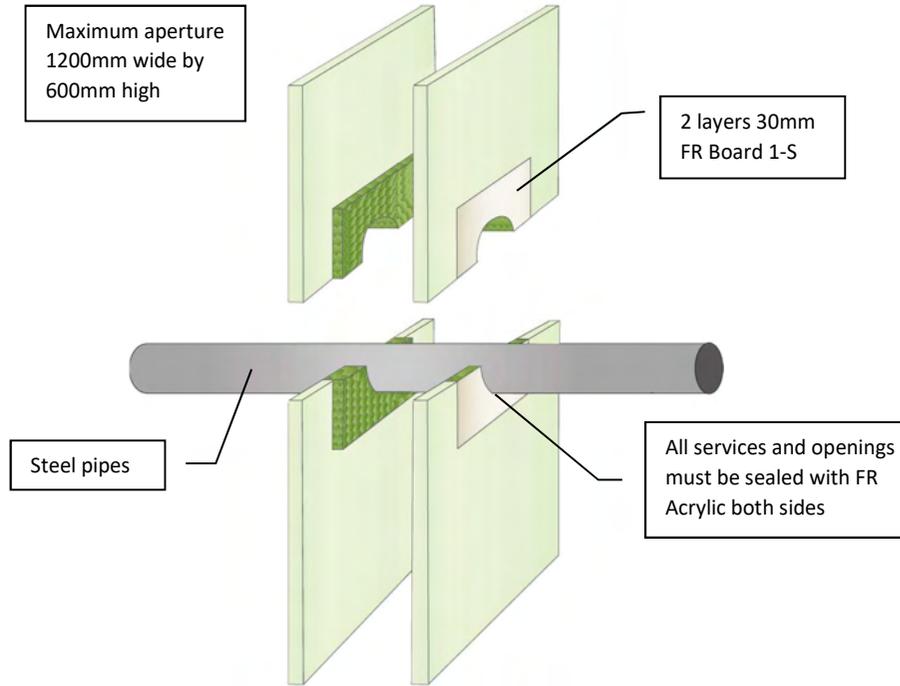
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of cables, wires and conduits on 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 ≤ Ø80mm single and bundled, and steel and plastic conduits ≤ Ø16mm with or without trays	EI 60 & E 60
Non-sheathed conductors ≤ 185mm ² and copper conduits ≤ Ø16mm, with or without trays	EI 30 & E 60
Sound reduction (seal only)	52 dB
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Sheet size:	Drawn date & no:
A4	20/2/21
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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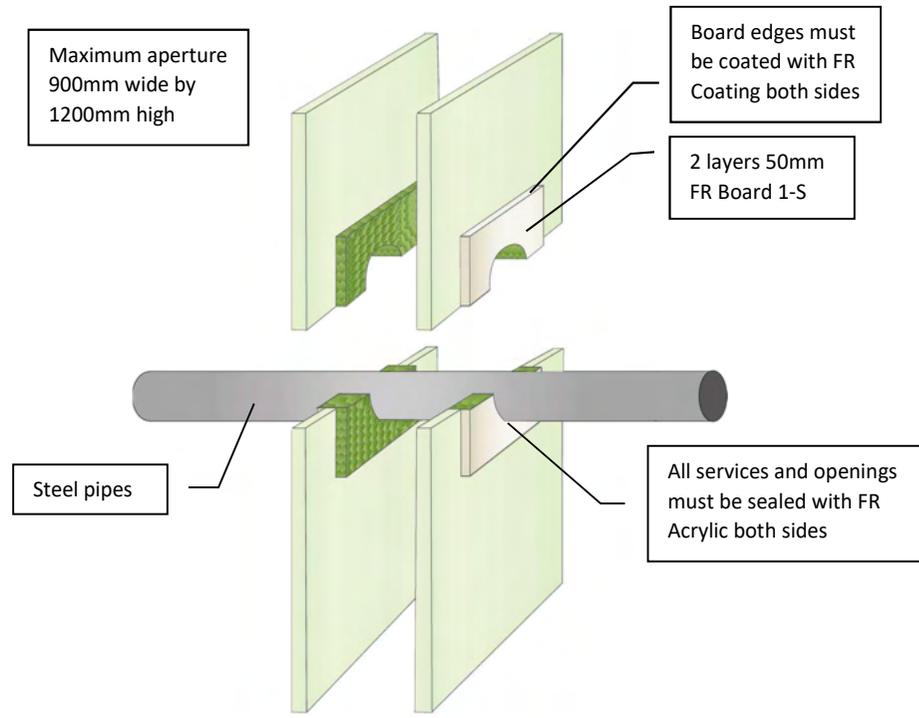
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated 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 pipes ≤ Ø22mm	EI 30 C/U & E 45
Sound reduction (seal only)	52 dB
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NTS	K.B

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 and Protecta® FR Acrylic 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 must be installed back-to-back and positioned centrally within the wall.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
 Protecta FR Acrylic
 Protecta FR Coating

Application Fire stopping of un-insulated 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 pipes ≤ Ø22mm	EI 60 C/U & E 60
Steel pipes ≤ Ø114mm	EI 20 C/U & E 60
Sound reduction (seal only)	52 dB



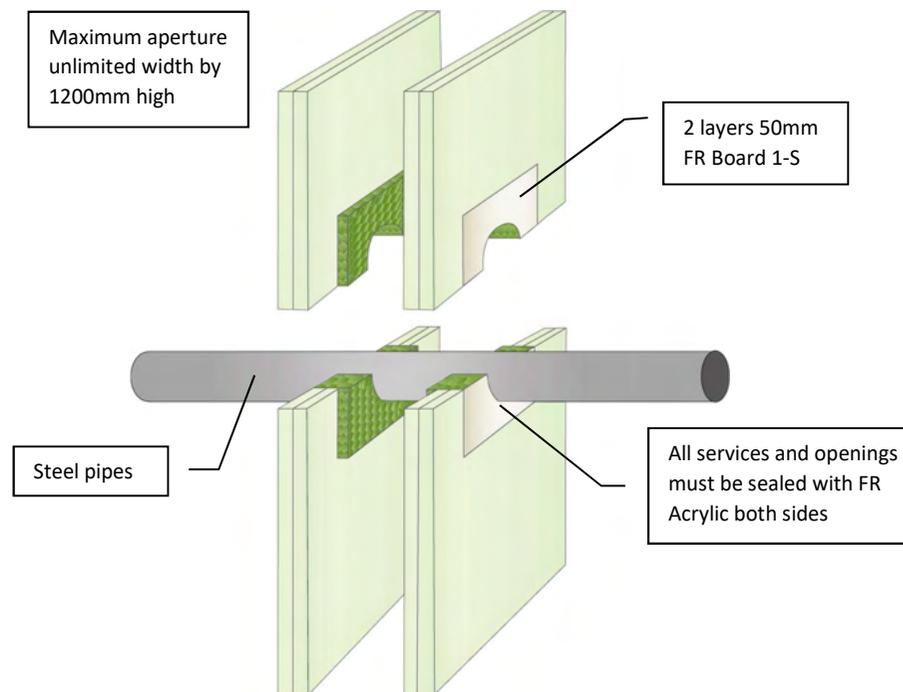
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 Email: post.uk@polyseam.com

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

Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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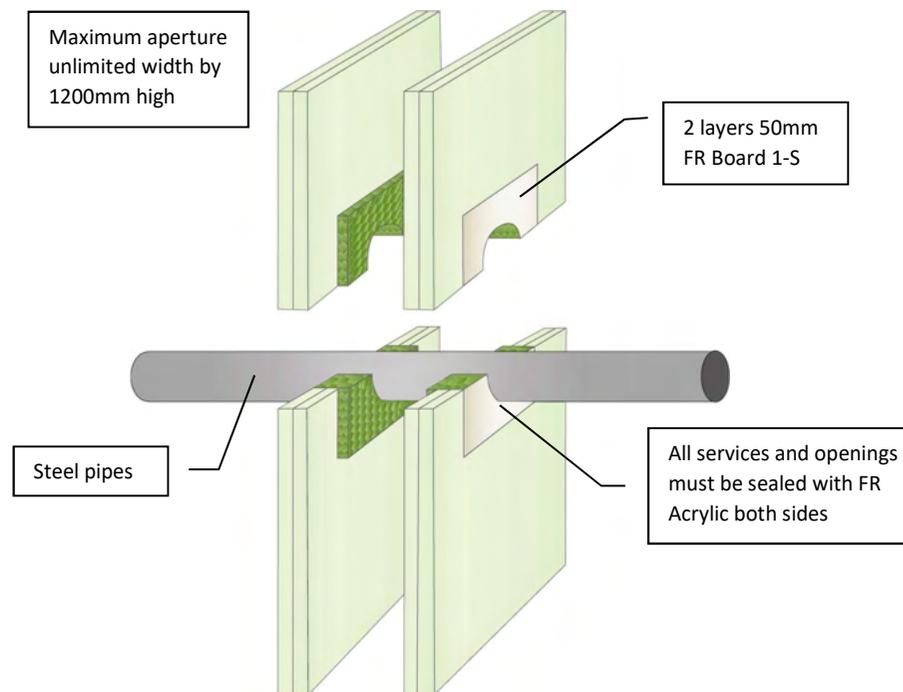
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated 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 pipes ≤ Ø22mm	EI 60 C/U & E 120
Steel pipes ≤ Ø114mm	EI 20 C/U & E 90
Sound reduction (seal only)	52 dB
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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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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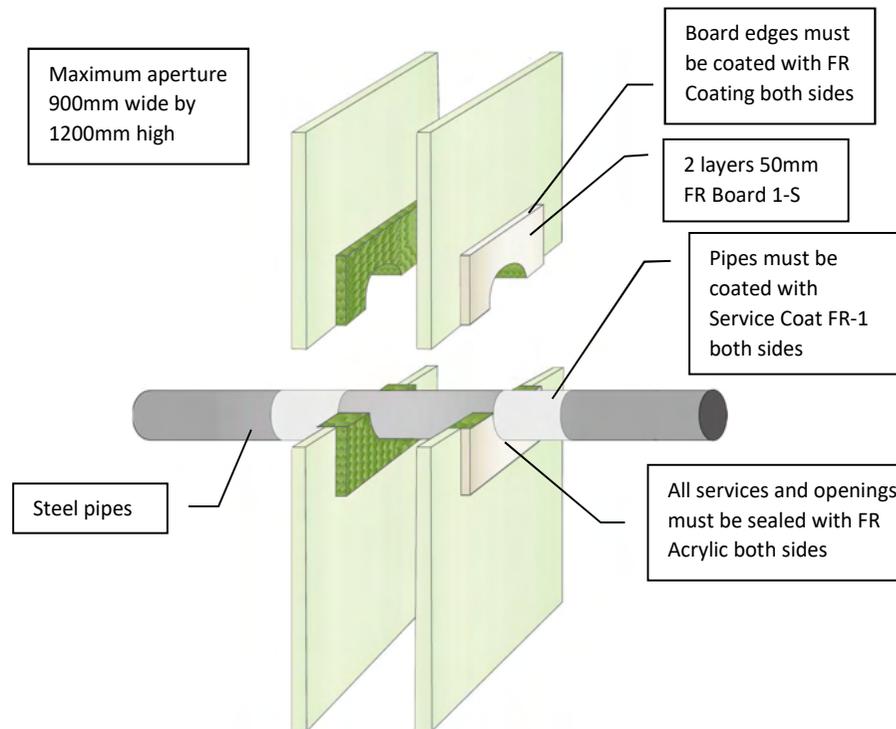
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated 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 pipes ≤ Ø63mm	EI 30 C/U & E 120
Steel pipes ≤ Ø324mm	EI 20 C/U & E 120
Sound reduction (seal only)	52 dB
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Sheet size:	Drawn date & no:
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Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 must be installed back-to-back and positioned centrally within the wall.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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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 Board
Protecta FR Acrylic
Protecta FR Coating
Protecta Service Coat FR-1

Application Fire stopping of un-insulated 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 pipes ≤ Ø63mm coated 200mm each side with 1150µ WFT EI 60 C/C & E 60

Steel pipes ≤ Ø63mm coated 200mm each side with 2300µ WFT EI 60 C/U & E 60

Steel pipes ≤ Ø114mm coated 200mm each side with 1500µ WFT EI 45 C/U & E 60

Sound reduction (seal only) 52 dB

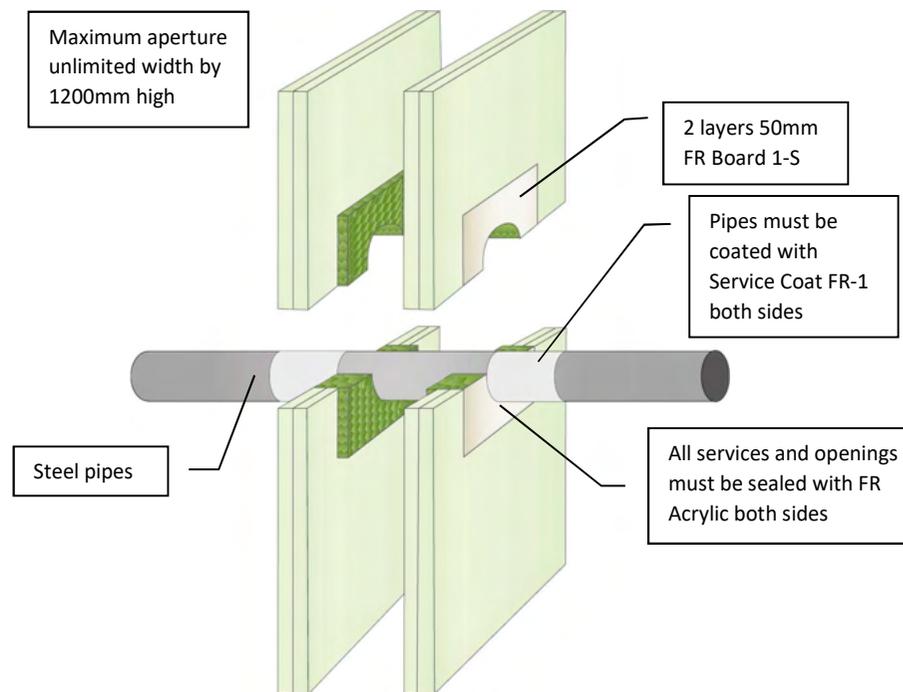
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Sheet size: **A4** Drawn date & no: 27/2/21

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

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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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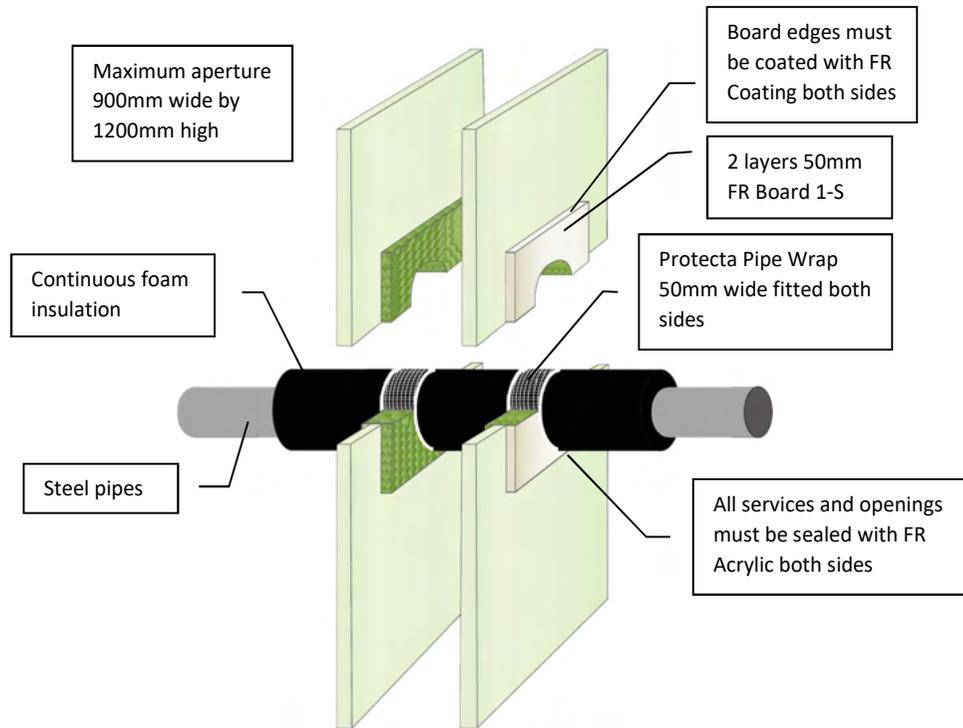
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta Service Coat FR-1
Application	Fire stopping of un-insulated 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 pipes ≤ Ø63mm coated 200mm each side with 1150µ WFT	EI 120 C/C & E 120
Steel pipes ≤ Ø63mm coated 200mm each side with 2300µ WFT	EI 60 C/U & E 90
Steel pipes ≤ Ø114mm coated 200mm each side with 1500µ WFT	EI 45 C/U & E 120
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	20/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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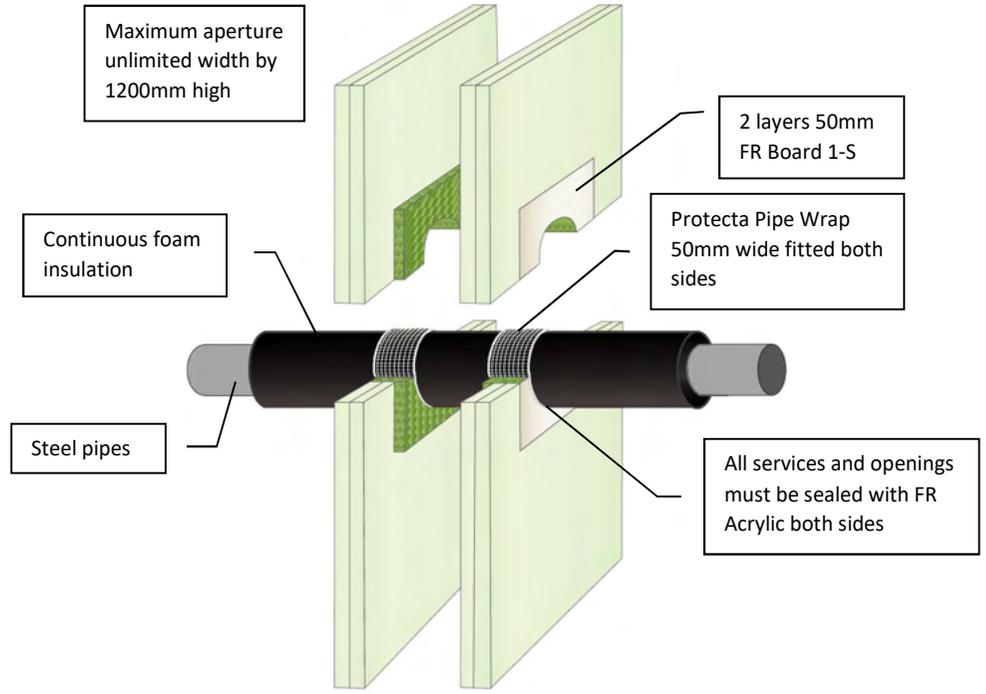
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board & FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated 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 pipes ≤ Ø40mm with 13mm elastomeric or PE insulation and 1 layer of pipe wrap EI 60 U/U & E 60	
Steel pipes ≤ Ø165mm with 13 - 32mm elastomeric or PE insulation and 2 layers of pipe wrap EI 60 U/U & E 60	
Steel pipes ≤ Ø324mm with 32 - 50mm elastomeric or PE insulation and 3 layers of pipe wrap EI 60 C/U & E 60	
Steel pipes ≤ Ø16mm with 15mm phenolic insulation and 1 layer of pipe wrap EI 60 C/U & E 60	
Steel pipes ≤ Ø273mm with 25 - 100mm phenolic insulation and 1 layer of pipe wrap EI 60 C/U & E 60	
Sound reduction (seal only)	52 dB
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Sheet size:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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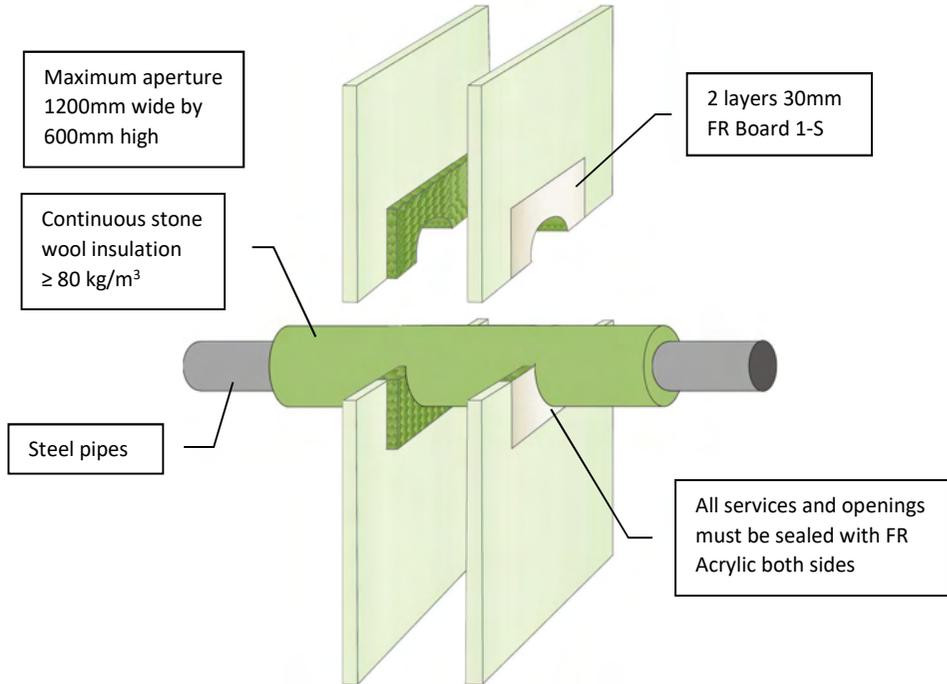
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated 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 pipes ≤ Ø40mm with 13mm elastomeric or PE insulation and 1 layer of pipe wrap EI 120 U/U & E 120	
Steel pipes ≤ Ø165mm with 13 - 32mm elastomeric or PE insulation and 2 layers of pipe wrap EI 60 U/U & E 120	
Steel pipes ≤ Ø324mm with 32 - 50mm elastomeric or PE insulation and 3 layers of pipe wrap EI 90 C/U & E 90	
Steel pipes ≤ Ø16mm with 15mm phenolic insulation and 1 layer of pipe wrap EI 90 C/U & E 90	
Steel pipes ≤ Ø273mm with 25 - 100mm phenolic insulation and 1 layer of pipe wrap EI 90 C/U & E 90	
Sound reduction (seal only)	52 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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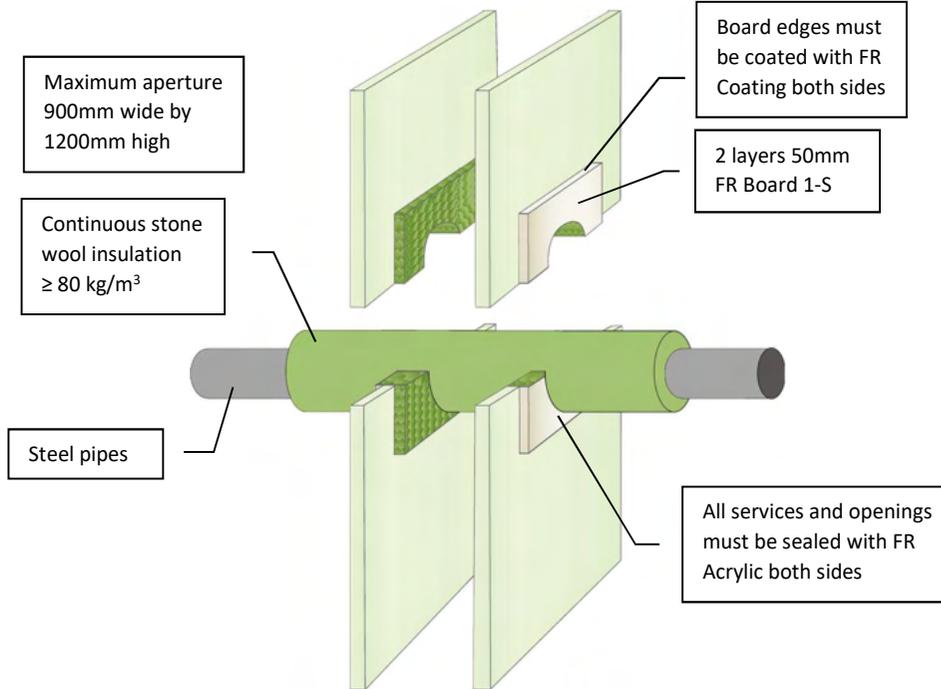
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø324mm with 20-30mm continuous stone wool insulation EI 45 C/U & E 45	
Sound reduction (seal only) 52 dB	
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A4	26/7/17
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
 Protecta FR Coating
 Protecta FR Acrylic

Application Fire stopping of insulated 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 pipes ≤ Ø324mm with 20-80mm continuous stone wool insulation
 EI 60 C/U & E 60 C/U
 Sound reduction (seal only) 52 dB

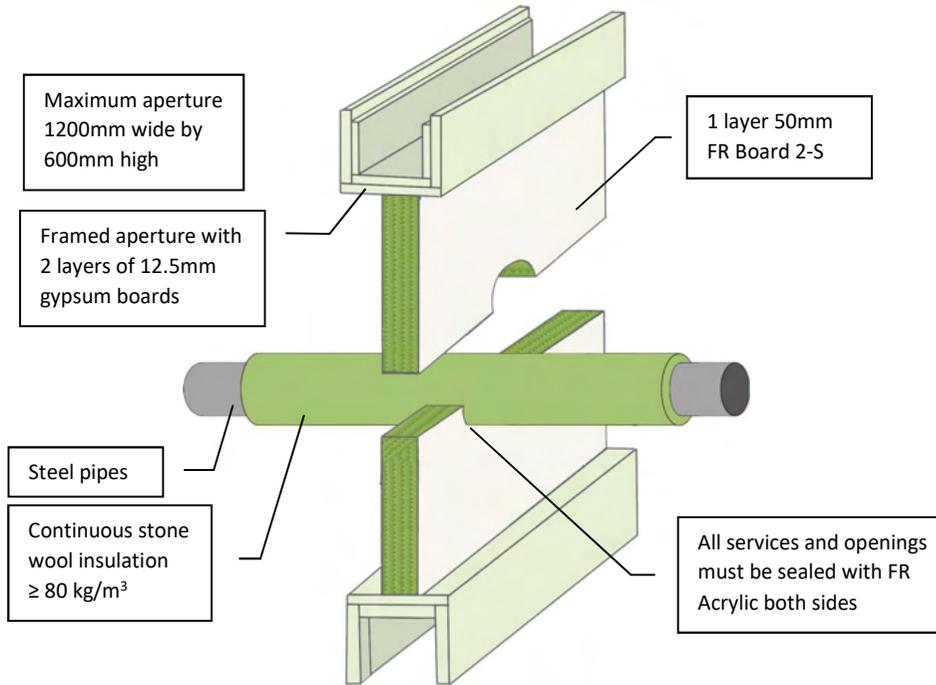
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Sheet size: **A4** Drawn date & no: 28/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated 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.

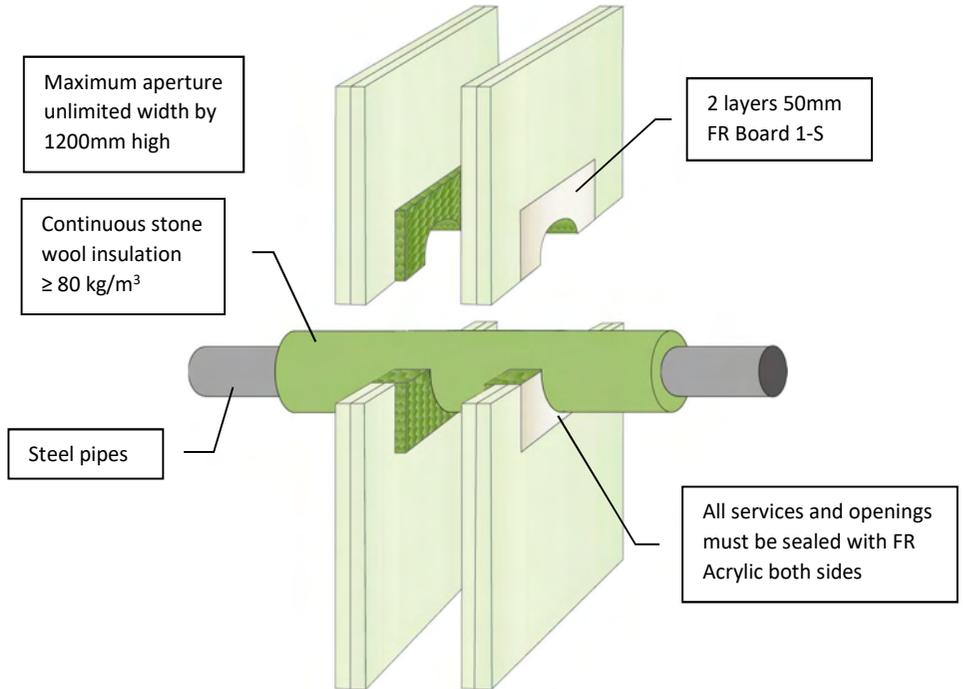
Fire & Sound classification
 Steel pipes ≤ Ø324mm with 20-30mm continuous stone wool insulation
 EI 60 C/U & E 90 C/U
 Sound reduction (seal only) 29 dB

Sheet size: **A4** Drawn date & no: 26/7/17

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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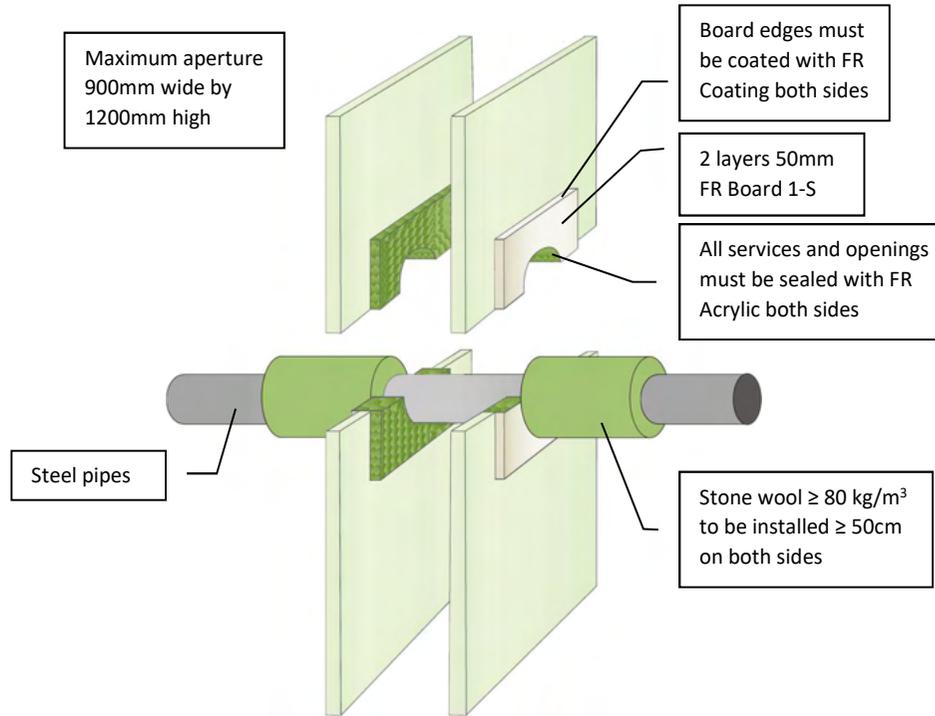
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø324mm with 20-80mm continuous stone wool insulation EI 120 C/U & E 120 C/U	
Sound reduction (seal only)	52 dB
	
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A4	10/1/17
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 must be installed back-to-back and positioned centrally within the wall.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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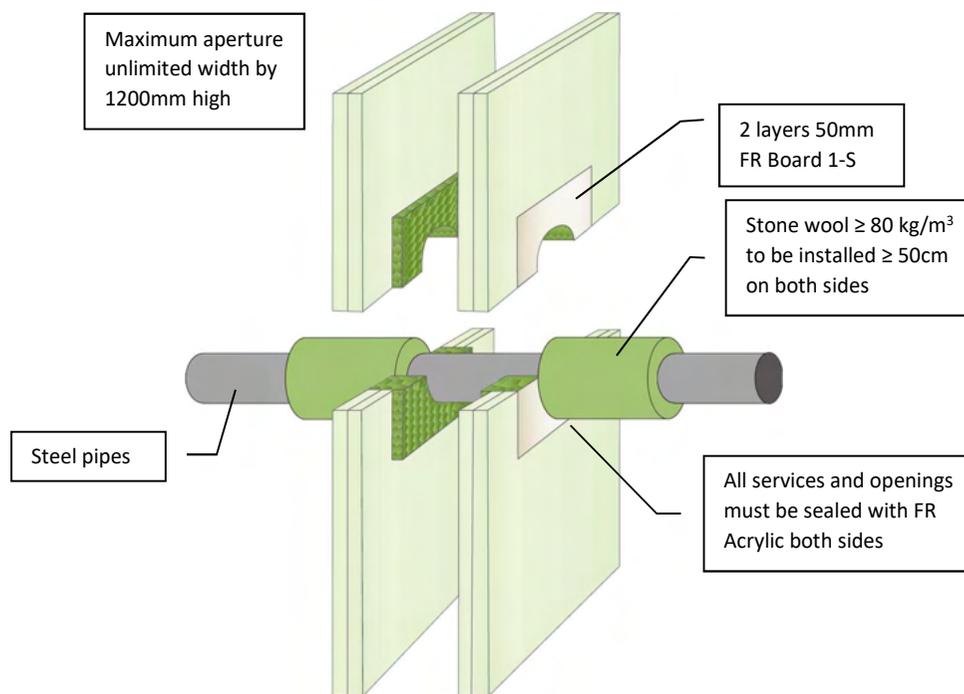
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø40mm with ≥ 20mm stone wool insulation	EI 60 C/U & E 60
Steel pipes ≤ Ø219mm with ≥ 30mm stone wool insulation	EI 60 C/U & E 60
Sound reduction (seal only)	52 dB
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Scale:	Drawn by:
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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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated 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 pipes ≤ Ø40mm with ≥ 20mm stone wool insulation
EI 120 C/U & E 120

Steel pipes ≤ Ø219mm with ≥ 30mm stone wool insulation
EI 90 C/U & E 120

Sound reduction (seal only)
52 dB

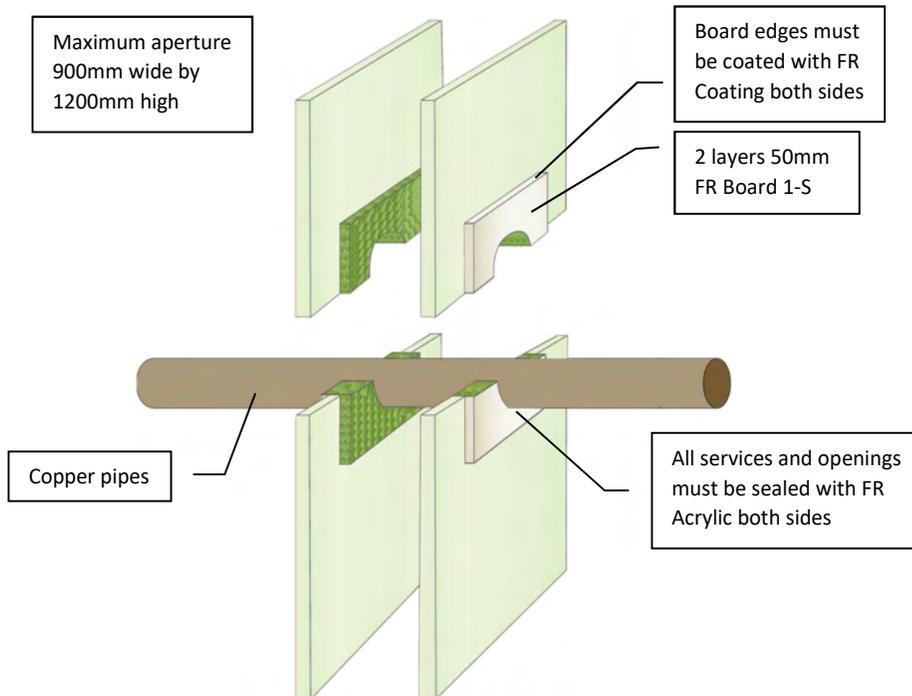
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Sheet size: **A4** Drawn date & no: 20/4/15

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

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 and Protecta® FR Acrylic 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 must be installed back-to-back and positioned centrally within the wall.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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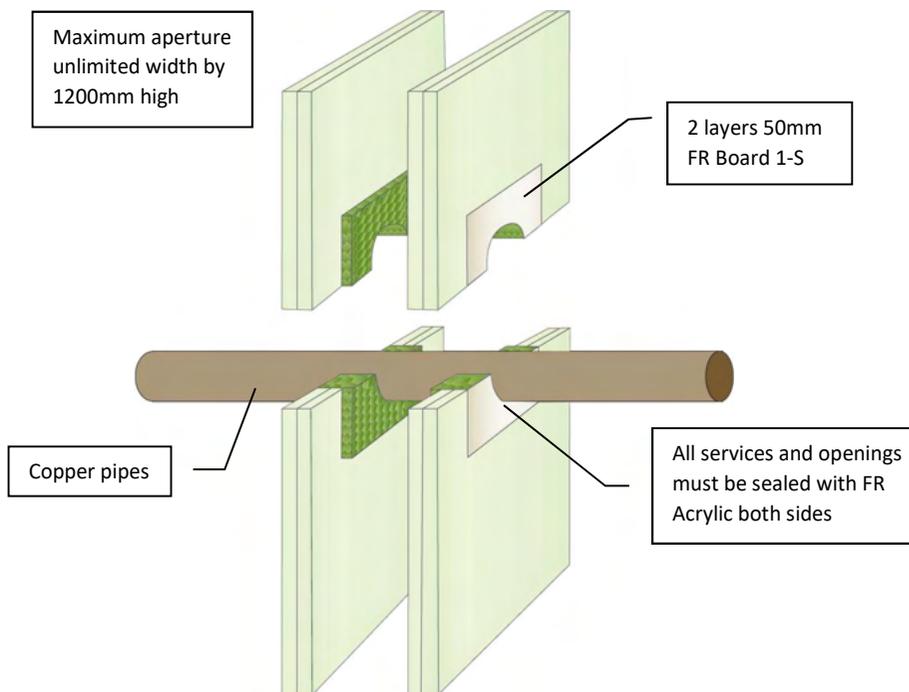
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of un-insulated copper 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	
Copper pipes ≤ Ø6mm	EI 60 C/C & E 60
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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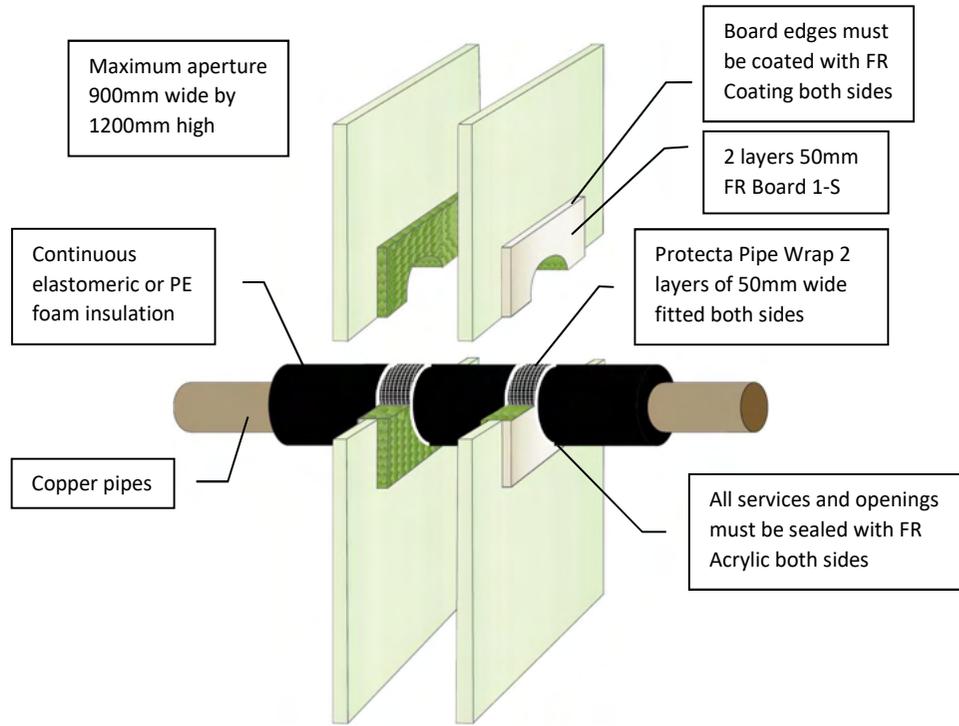
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated 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 pipes ≤ Ø12mm	EI 30 C/C & E 120
Copper pipes ≤ Ø54mm	EI 15 C/C & E 120
Sound reduction (seal only)	52 dB
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	20/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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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 Board
 Protecta FR Coating
 Protecta FR Acrylic
 Protecta FR Pipe Wrap 25m

Application Fire stopping of insulated copper 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
 Copper and steel pipes ≤ Ø54mm with 9 - 25mm continuous foam insulation
 EI 60 C/C & E 60
 Sound reduction (seal only) 52 dB

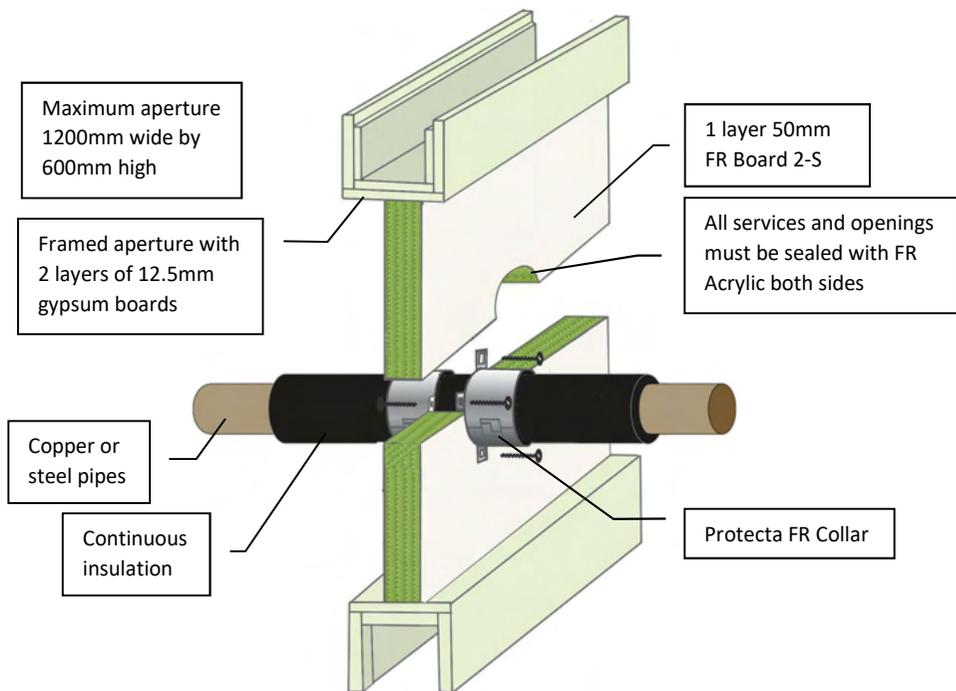
Polyseam Ltd, 15 St Andrews Road,
 Huddersfield, West Yorkshire, HD1 6SB
 Tel: +44 (0) 148 4421036
 Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 28/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Insulated pipes must be secured with Protecta FR Collar ≤ Ø110mm and 50mm high on both sides, fixed with 50mm pigtail screws.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board Protecta FR Acrylic Protecta FR Collar
Application	Fire stopping of insulated copper & 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

Copper & steel pipes ≤ Ø54mm with 9-25mm continuous elastomeric or PE foam insulation
EI 30 C/C & E 60

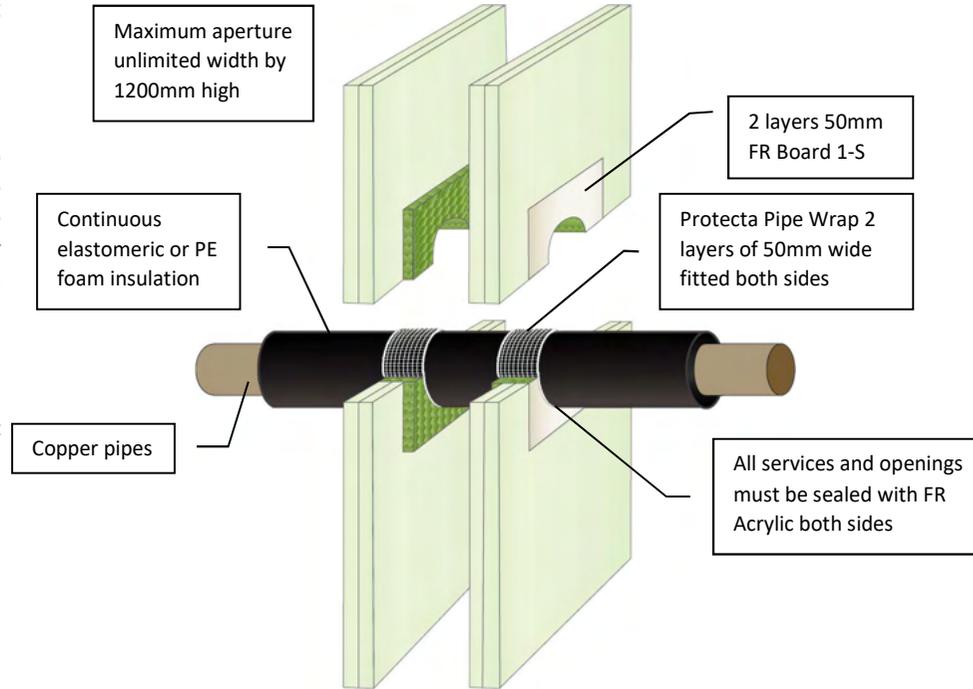
Sound reduction (seal only) 29 dB

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Sheet size: A4	Drawn date & no: 20/2/21
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m
Application Fire stopping of insulated 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 and steel pipes ≤ Ø12mm with 9mm continuous foam insulation EI 120 C/C & E 120

Copper and steel pipes ≤ Ø54mm with 9 - 13mm continuous foam insulation EI 90 C/C & E 120

Copper pipes ≤ Ø54mm with 14 - 25mm continuous foam insulation EI 60 C/C & E 120 C/C

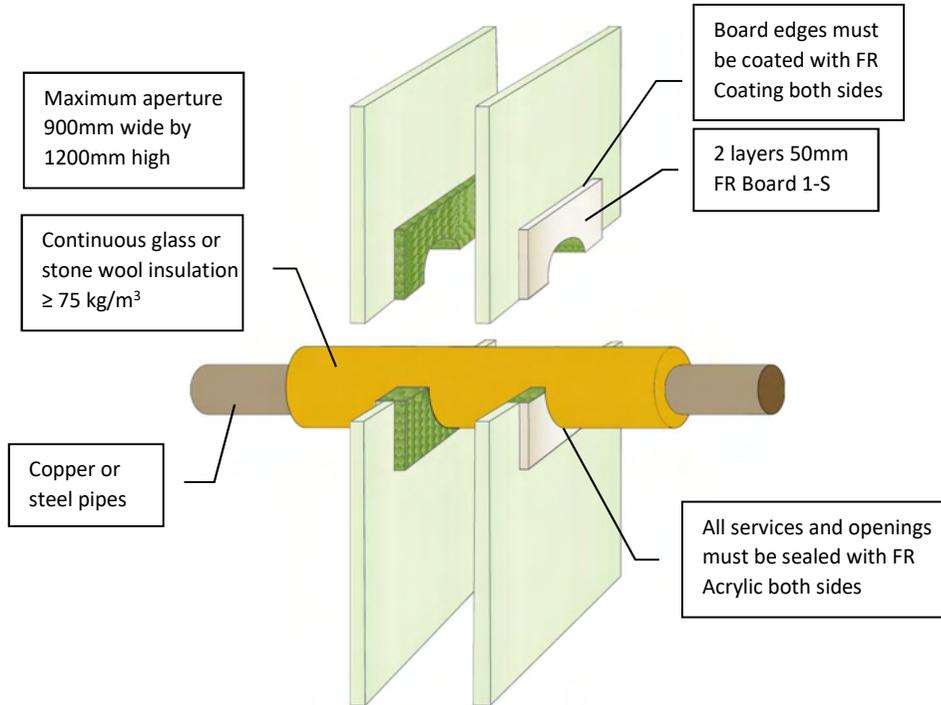
Sound reduction (seal only) 52 dB

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: 5/3/19
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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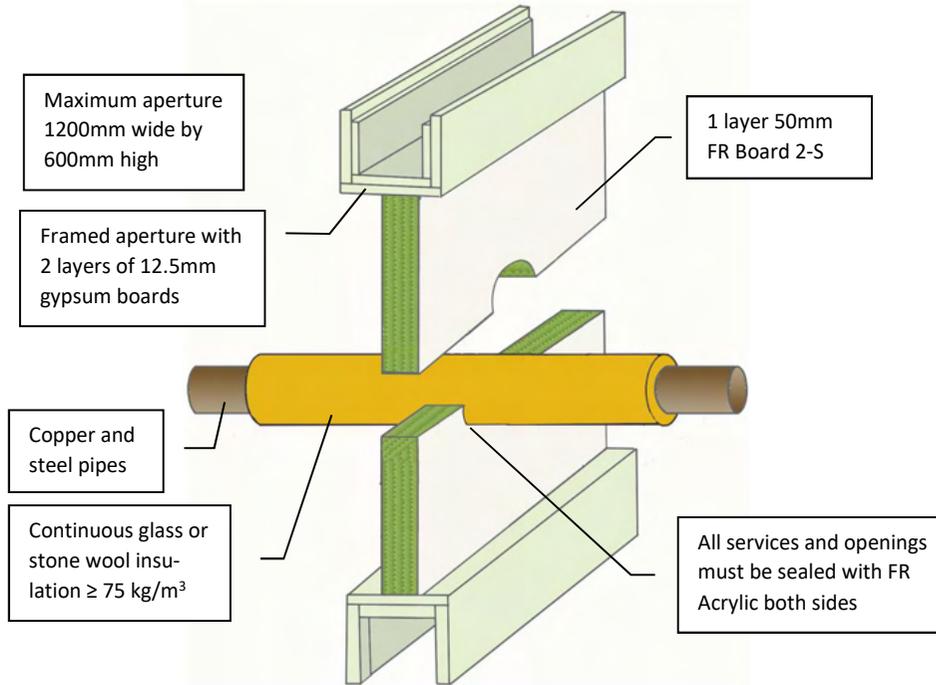
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of insulated copper and 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	
Copper and steel pipes ≤ Ø15mm with 20mm continuous insulation EI 60 C/C & E 60	
Copper and steel pipes ≤ Ø54mm with 20 - 30mm continuous insulation EI 45 C/C & E 60	
Copper and steel pipes ≤ Ø54mm with 40mm continuous insulation EI 60 C/C & E 60	
Sound reduction (seal only) 52 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:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated copper & 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
 Copper and steel pipes ≤ Ø54mm with 20 - 40mm continuous insulation
 EI 30 C/C & E 60
 Sound reduction (seal only) 29 dB

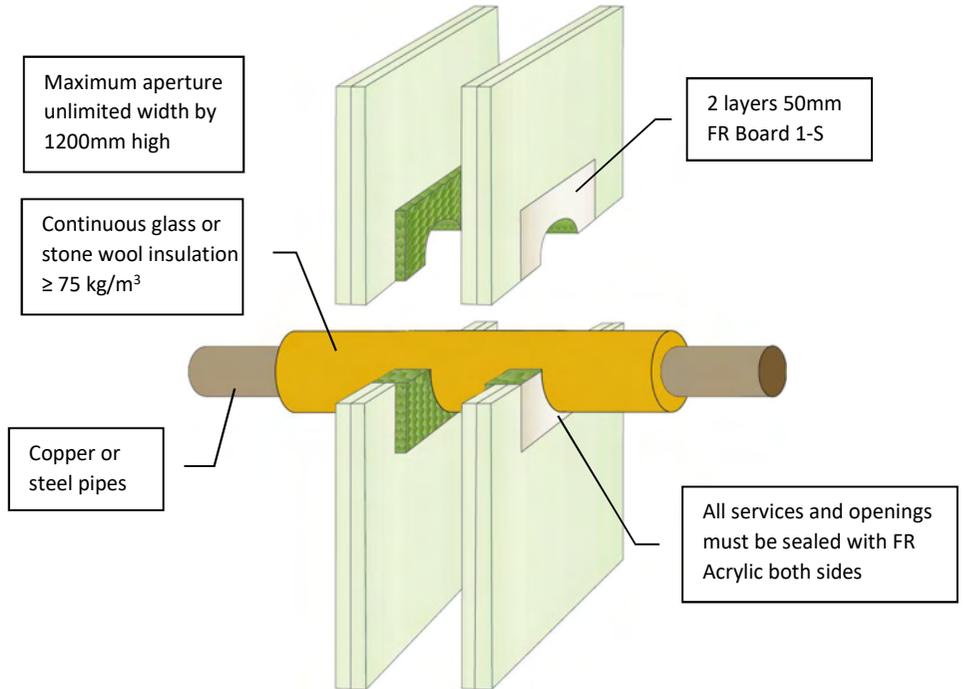
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 Email: post.uk@polyseam.com

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

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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Signed and approved:

Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire stopping of insulated copper and 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

Copper and steel pipes ≤ Ø15mm with 20mm continuous insulation	EI 60 C/C & E 60
Copper and steel pipes ≤ Ø54mm with 20 - 30mm continuous insulation	EI 45 C/C & E 60
Copper and steel pipes ≤ Ø54mm with 40mm continuous insulation	EI 60 C/C & E 60
Sound reduction (seal only)	52 dB

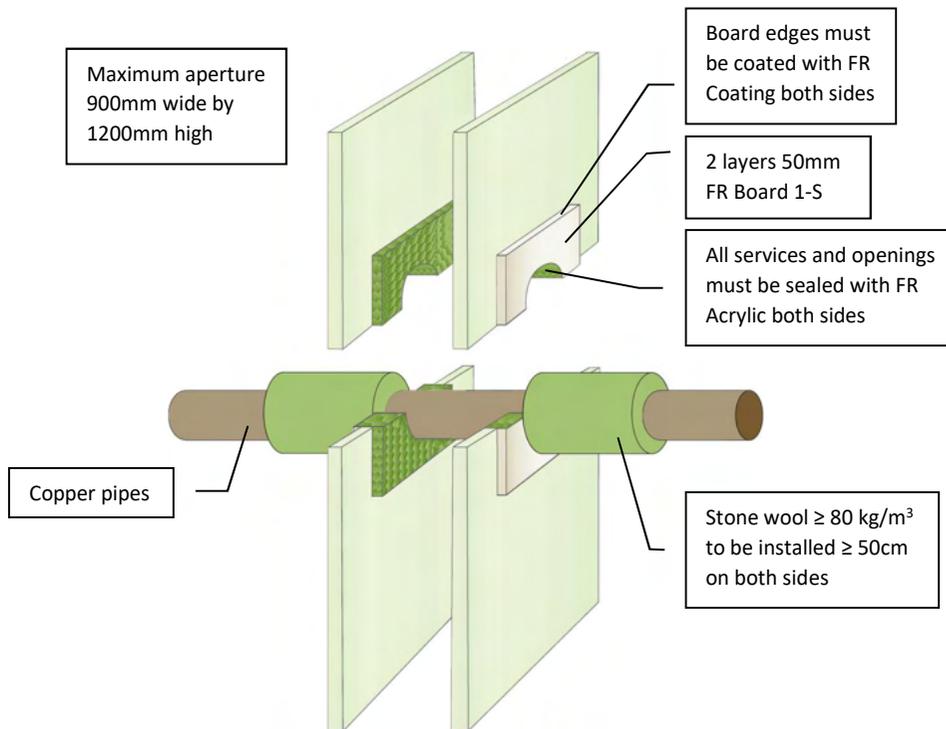
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 Tel: +44 (0) 148 4421036
 Email: post.uk@polyseam.com

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

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

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 and Protecta® FR Acrylic 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 must be installed back-to-back and positioned centrally within the wall.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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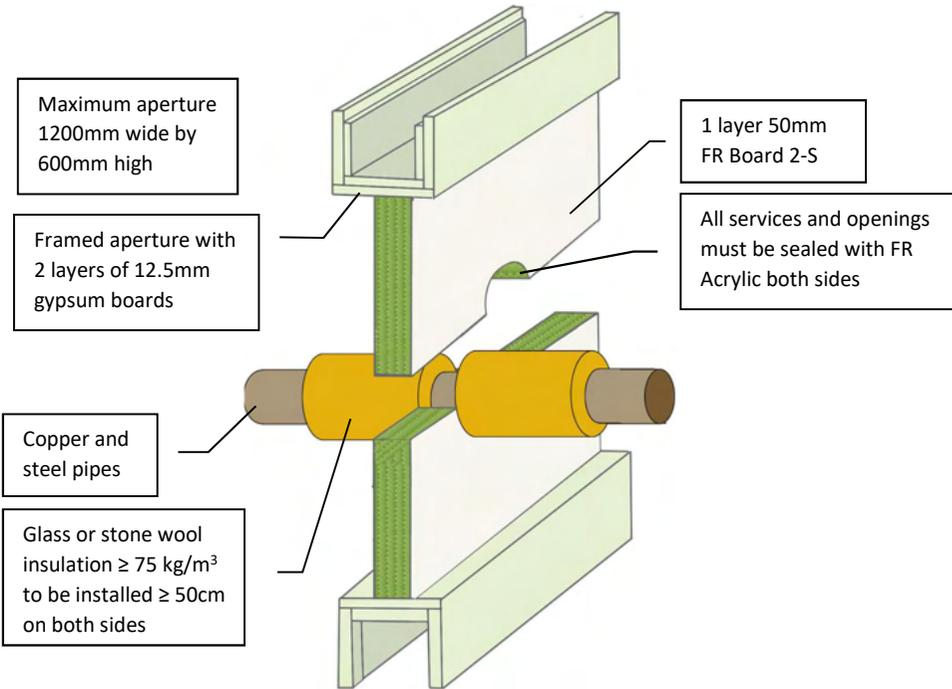
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of insulated copper 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	
Copper pipes ≤ Ø54mm with ≥ 20mm stone wool insulation	
EI 60 C/C & E 60	
Sound reduction (seal only)	
52 dB	
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Sheet size:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated copper & 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
 Copper and steel pipes ≤ Ø54mm with ≥ 20mm insulation
 EI 45 C/C & E 60
 Sound reduction (seal only)
 29 dB

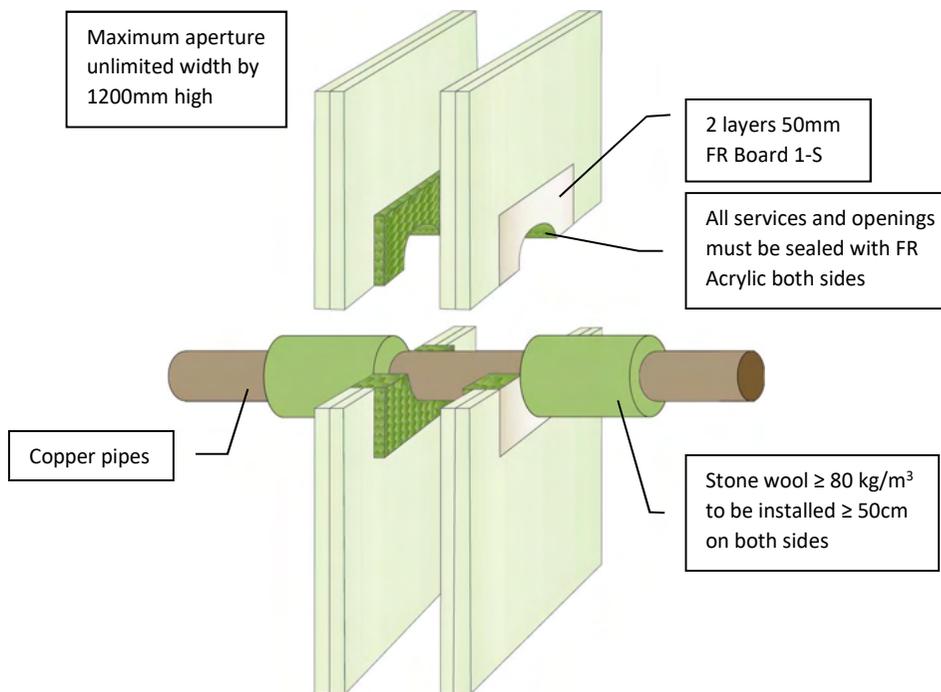
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 Huddersfield, West Yorkshire, HD1 6SB
 Tel: +44 (0) 148 4421036
 Email: post.uk@polyseam.com

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

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

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 and Protecta® FR Acrylic 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 be flush with the surface of the drywall on both sides.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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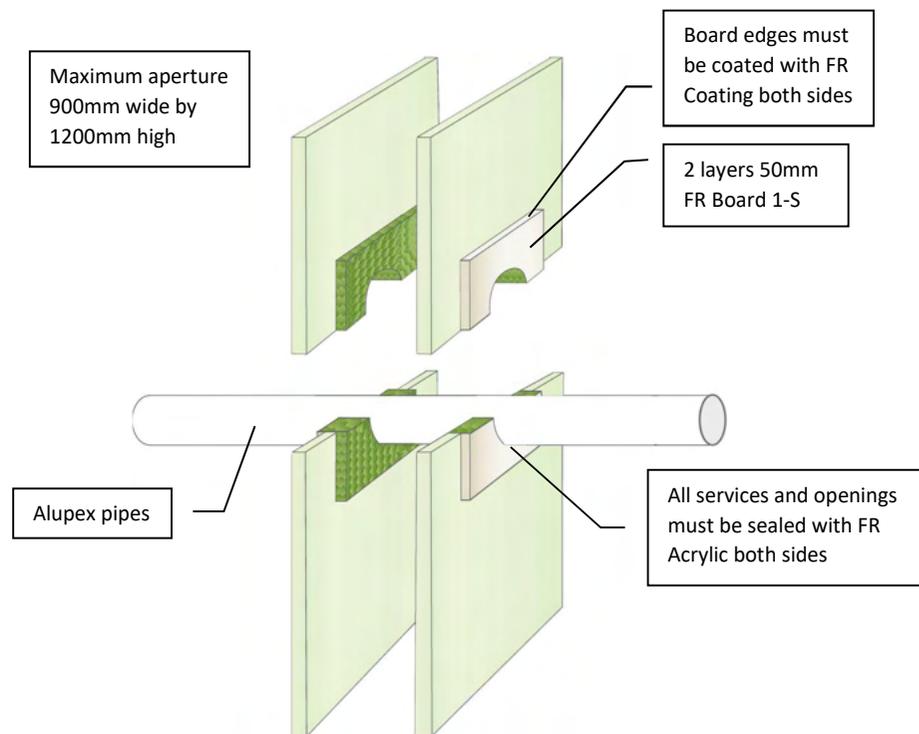
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø54mm with ≥ 20mm stone wool insulation EI 120 C/C & E 120	
Sound reduction (seal only) 52 dB	
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Sheet size:	Drawn date & no:
A4	20/4/15
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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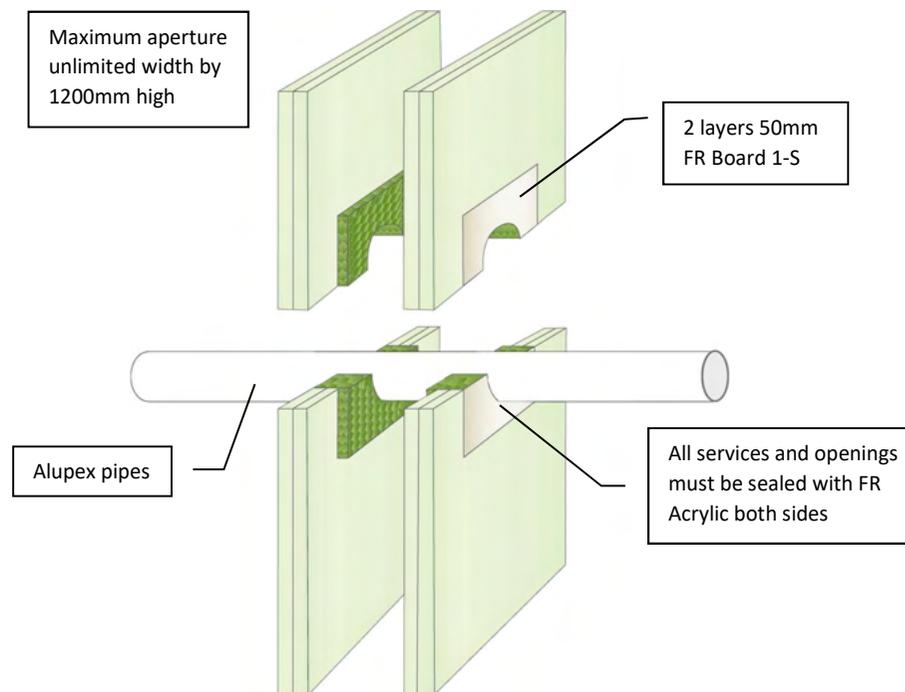
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of un-insulated alupex 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	
Alupex pipes ≤ Ø20mm	EI 60 C/C & E 60
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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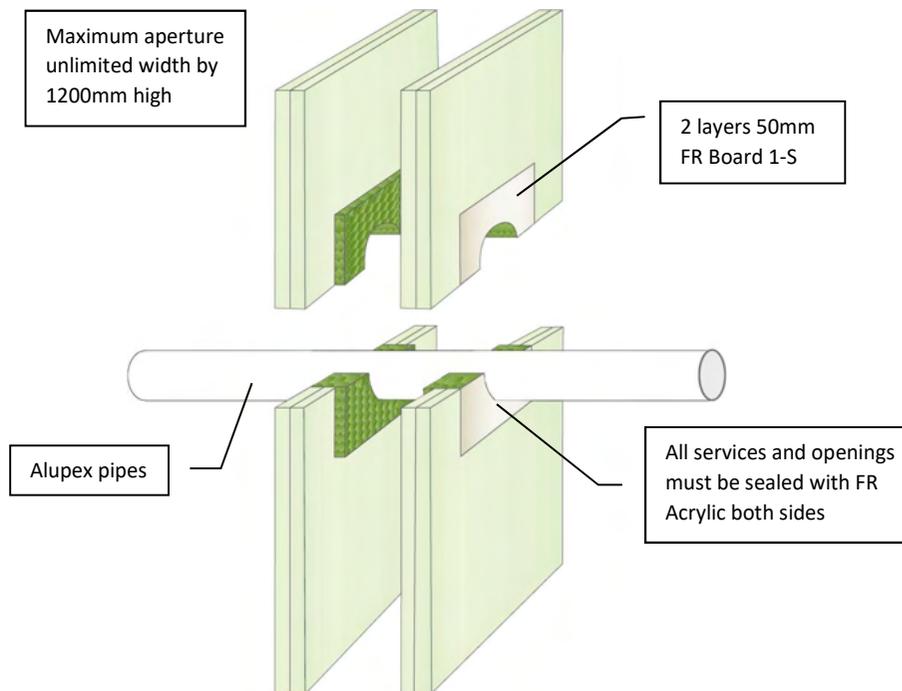
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated 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 pipes ≤ Ø20mm	EI 120 C/C & E 120
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	26/7/17
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic

Application Fire stopping of un-insulated 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 pipes ≤ Ø75mm
EI 20 C/C & E 120
Sound reduction (seal only)
52 dB



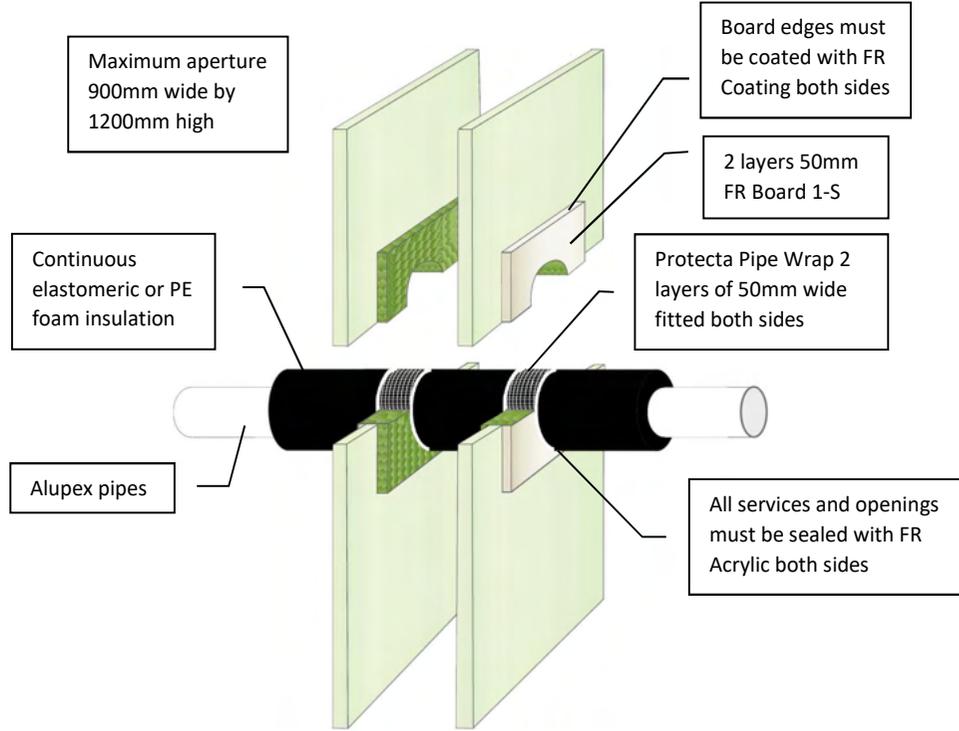
Protecta®
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

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

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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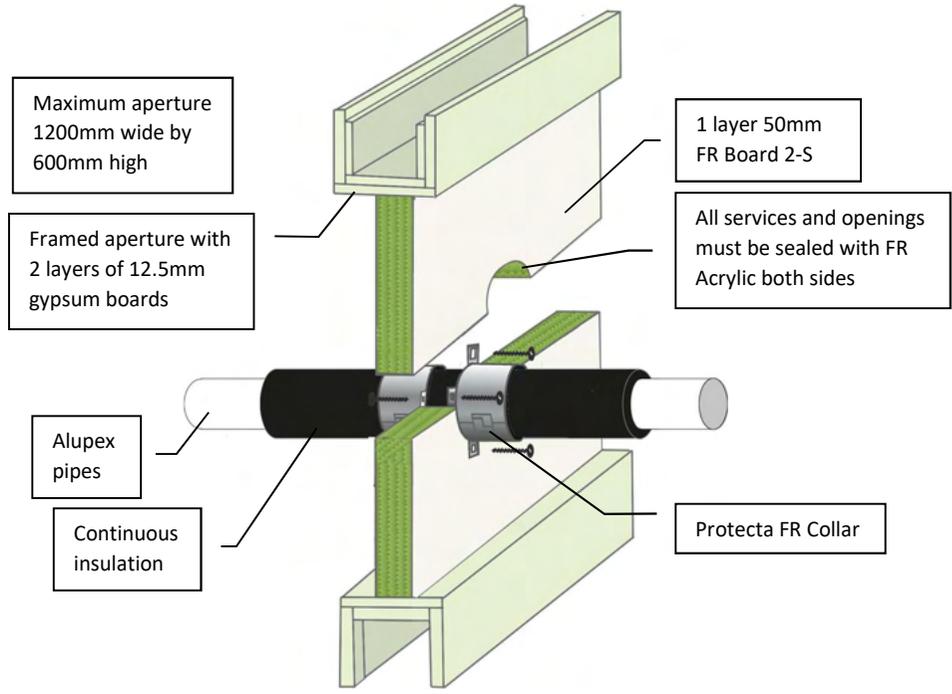
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated alupex 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	
Alupex pipes ≤ Ø75mm with 9 - 25mm continuous foam insulation	
EI 60 C/C & E 60	
Sound reduction (seal only)	
52 dB	
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Sheet size:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Insulated pipes must be secured with Protecta FR Collar on both sides, fixed with 50mm pigtail screws.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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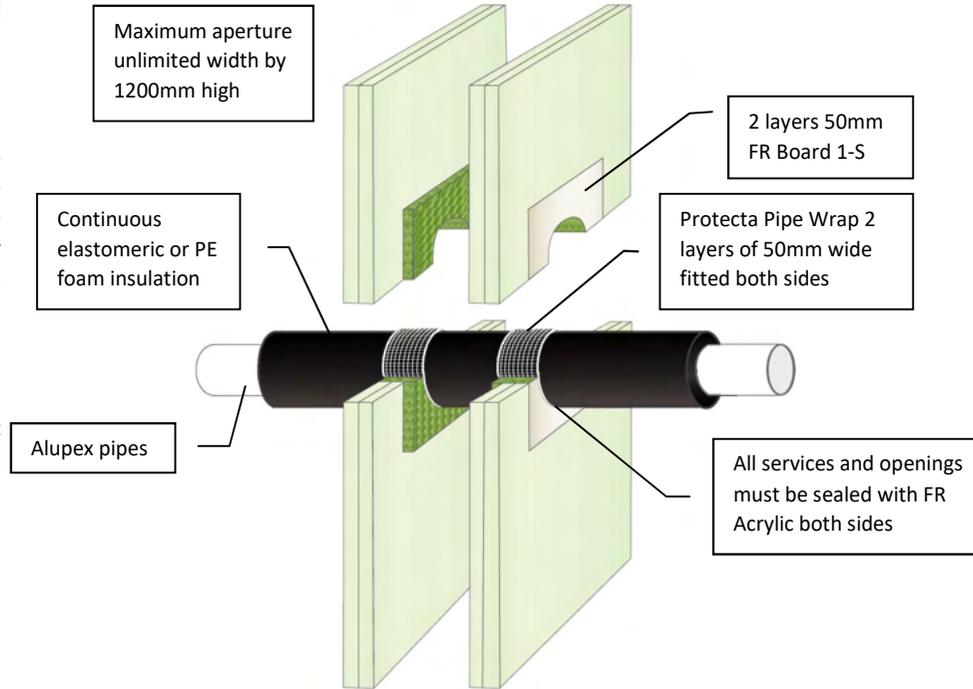
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Collar
Application	Fire stopping of insulated 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 pipes ≤ Ø16mm with 9mm continuous elastomeric or PE foam insulation secured with collars ≤ Ø40mm, 50mm high EI 60 C/C & E 60	
Alupex pipes ≤ Ø75mm with 25mm continuous elastomeric or PE foam insulation secured with collars Ø125mm, 60mm high EI 60 C/C & E 60	
Sound reduction (seal only)	29 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:	Drawn date & no:
A4	21/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

Application Fire stopping of insulated 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 pipes ≤ Ø75mm with 9 - 25mm continuous foam insulation
EI 120 C/C & E 120 C/C

Sound reduction (seal only) 52 dB

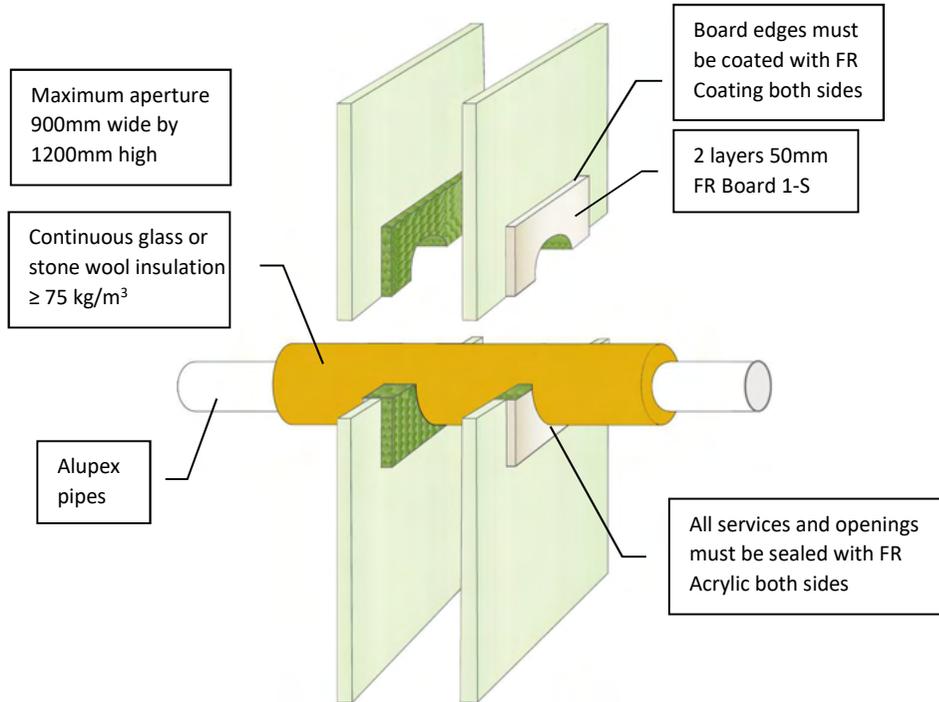
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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 5/3/19

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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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 Board
Protecta FR Coating
Protecta FR Acrylic

Application Fire stopping of insulated alupex 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
 Alupex pipes ≤ Ø75mm with 25 - 60mm continuous insulation
 EI 60 C/C & E 60
 Sound reduction (seal only) 52 dB

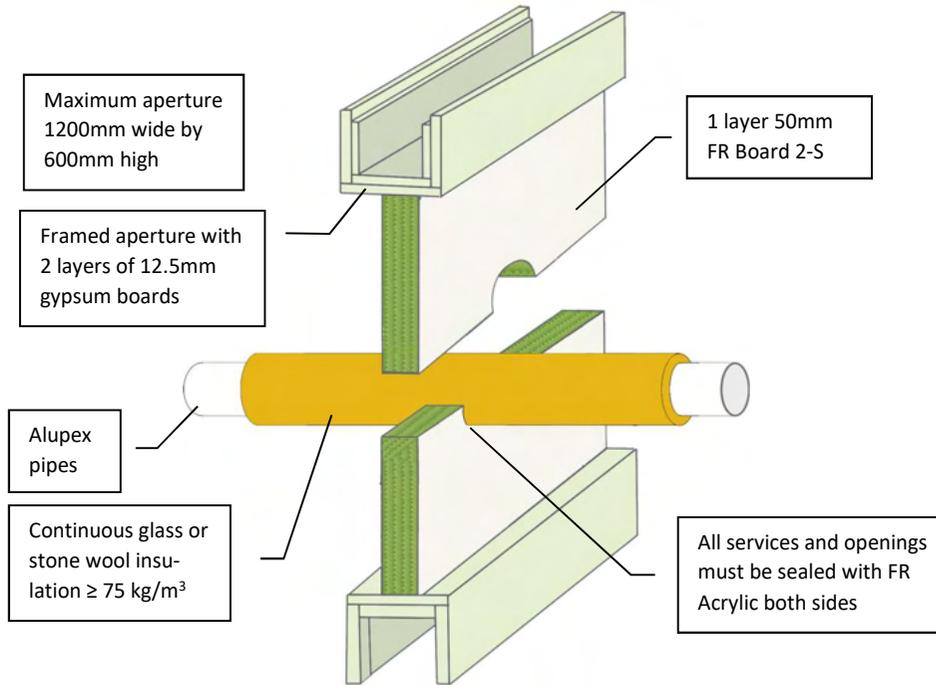
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 Huddersfield, West Yorkshire, HD1 6SB
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Sheet size: **A4** Drawn date & no: 28/2/21

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

Installation Instructions

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2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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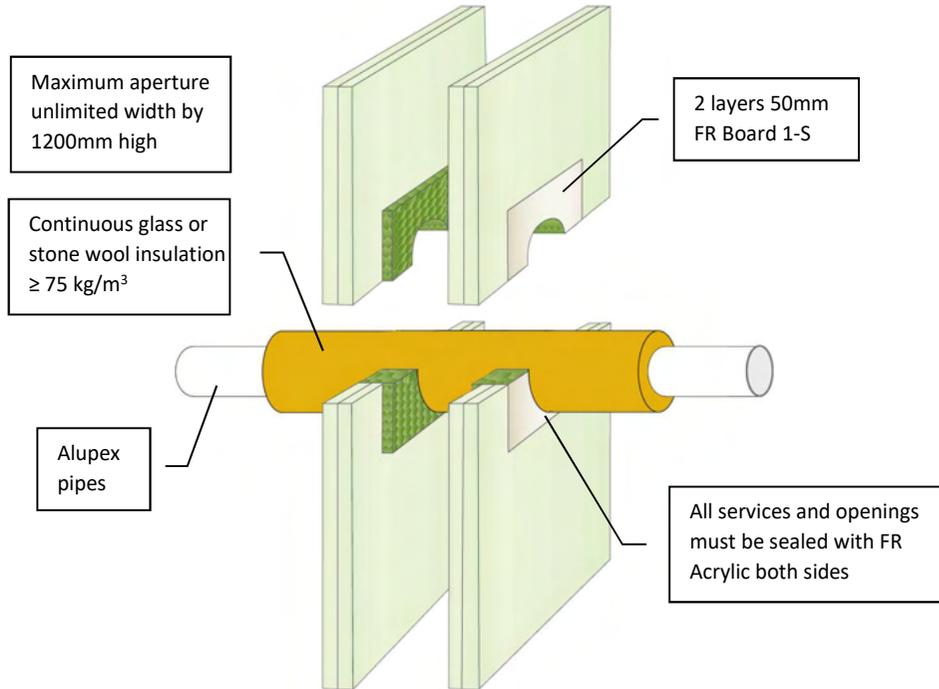
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø75mm with 25mm continuous insulation	
EI 60 C/C & E 60	
Sound reduction (seal only)	
29 dB	
	
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Sheet size:	Drawn date & no:
A4	21/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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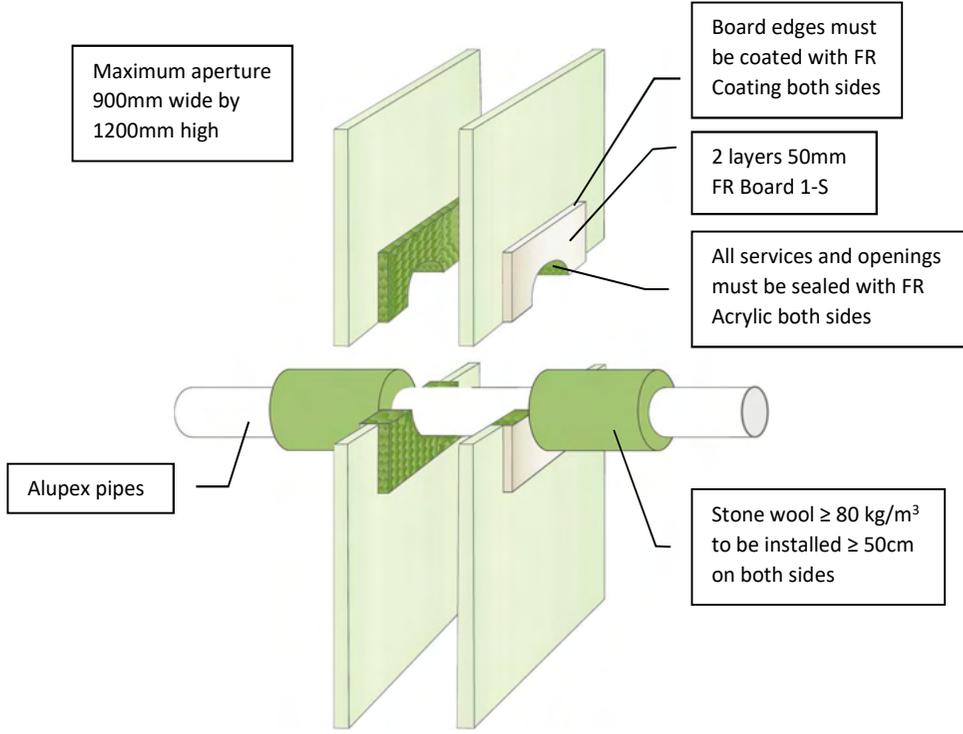
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø75mm with 25 - 60mm continuous insulation	
EI 90 C/C & E 120	
Sound reduction (seal only)	
52 dB	
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Sheet size:	Drawn date & no:
A4	21/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board Protecta FR Coating Protecta FR Acrylic
Application	Fire stopping of insulated alupex 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

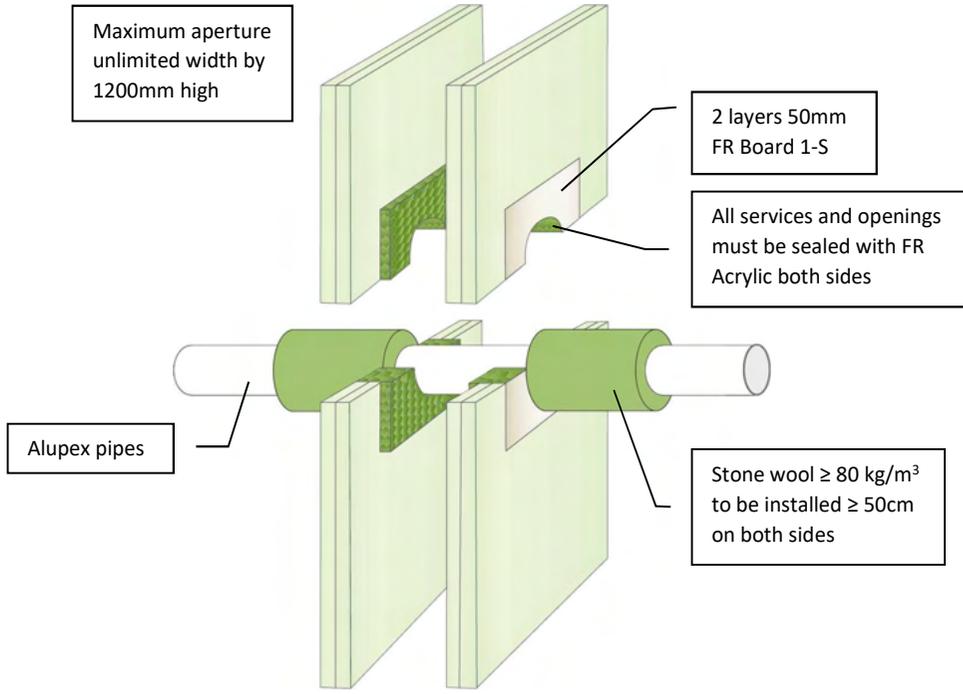
Fire & Sound classification	
Alupex pipes ≤ Ø75mm with ≥ 20mm stone wool insulation	EI 60 C/C & E 60
Sound reduction (seal only)	52 dB

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Sheet size:	Drawn date & no:
A4	28/2/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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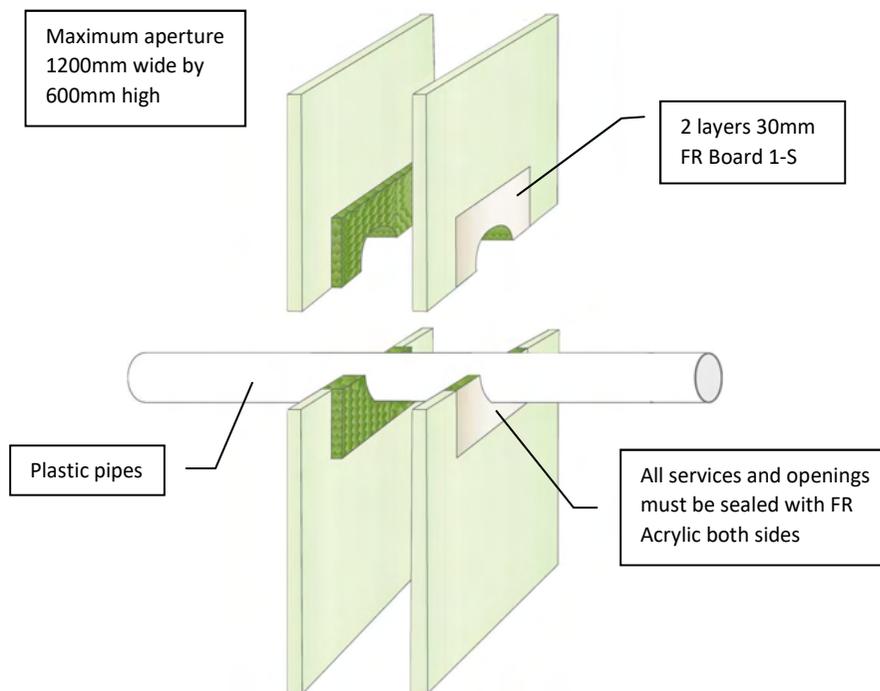
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø16mm with ≥ 20mm stone wool insulation EI 120 C/C & E 120 C/C	
Alupex pipes ≤ Ø75mm with ≥ 20mm stone wool insulation EI 60 C/C & E 60 C/C	
Sound reduction (seal only) 52 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:	Drawn date & no:
A4	20/4/15
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board
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

PVC-U and PVC-C pipes ≤ Ø32mm with wall thickness 1.0-1.8mm
EI 45 U/C & E 45 U/C

Sound reduction (seal only) 52 dB

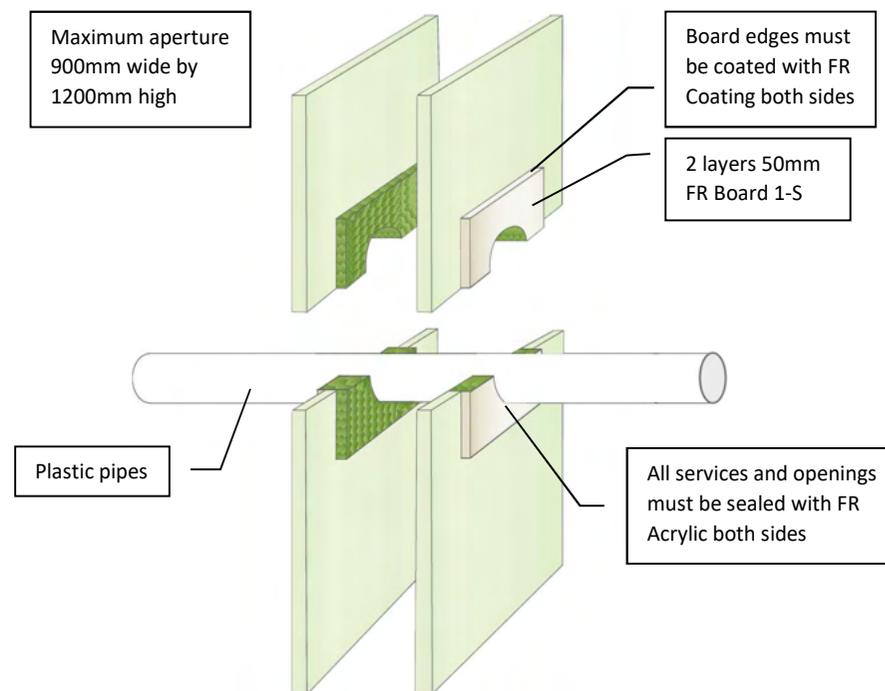
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 5/3/19

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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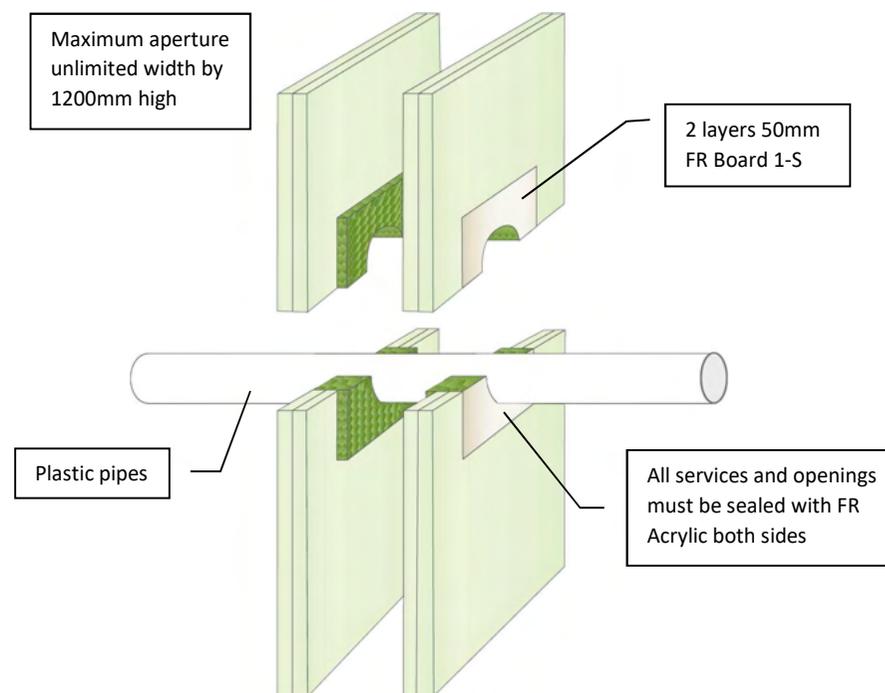
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board & FR Coating 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	
PEX pipe-in-pipe ≤ Ø25mm	EI 60 C/C & E 60
PVC-U and PVC-C pipes ≤ Ø32mm with wall thickness 1.0 - 2.4mm	EI 60 U/C & E 60
PE, ABS and SAN+PVC pipes ≤ Ø32mm with wall thickness 2.0 - 3.0mm	EI 60 U/C & E 60
PP pipes ≤ Ø32mm with wall thickness 1.8 - 2.2mm	EI 60 U/C & E 60
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	2/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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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 Board
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

PEX pipe-in-pipe $\leq \varnothing 25\text{mm}$ EI 90 C/C & E 90
PVC-U and PVC-C pipes $\leq \varnothing 32\text{mm}$ with wall thickness 1.0 - 2.4mm EI 60 U/C & E 60
PE, ABS and SAN+PVC pipes $\leq \varnothing 32\text{mm}$ with wall thickness 2.0 - 3.0mm EI 60 U/C & E 60
PP pipes $\leq \varnothing 32\text{mm}$ with wall thickness 1.8 - 2.2mm EI 60 U/C & E 120
Sound reduction (seal only) 52 dB



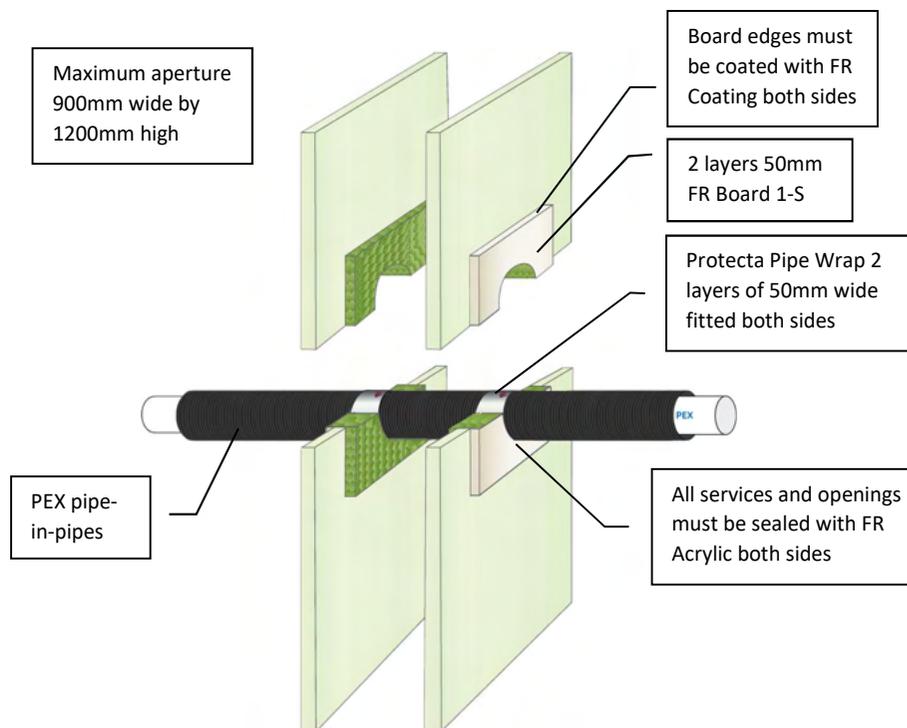
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Tel: +44 (0) 148 4421036
Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 27/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board Protecta FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of PEX pipe-in-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

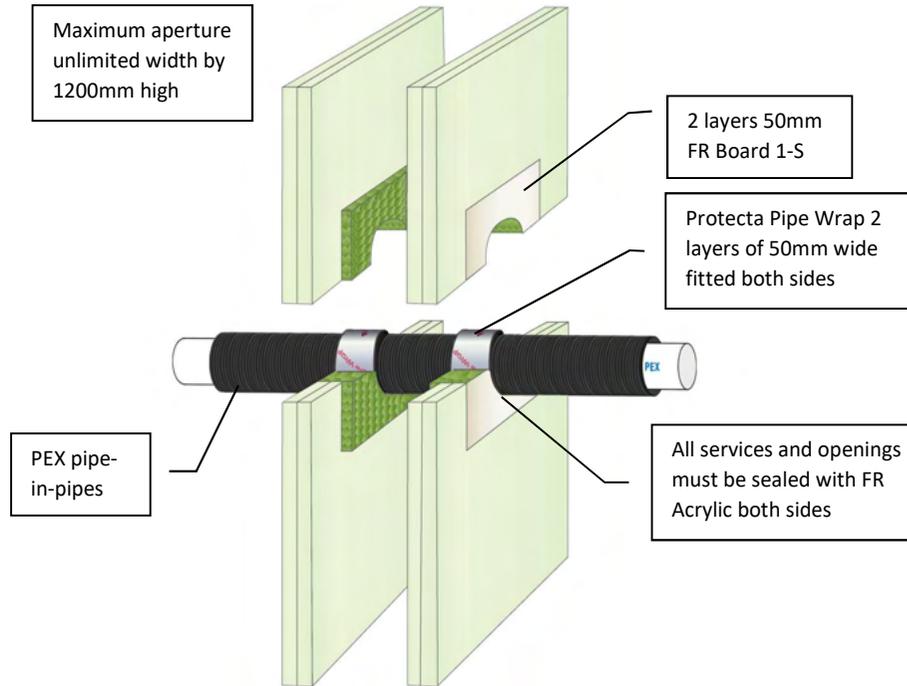
Fire & Sound classification	
PEX pipe-in-pipes ≤ Ø54mm	EI 60 C/C & E 60 C/C
PEX pipe-in-pipes ≤ Ø25mm in bundles ≤ Ø50mm	EI 60 C/C & E 60 C/C
Sound reduction (seal only)	52 dB

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NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Pipe Wrap

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 pipe-in-pipes ≤ Ø54mm
EI 120 C/C & E 120 C/C

PEX pipe-in-pipes ≤ Ø25mm in bundles
≤ Ø50mm
EI 90 C/C & E 90 C/C

Sound reduction (seal only) 52 dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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Email: post.uk@polyseam.com

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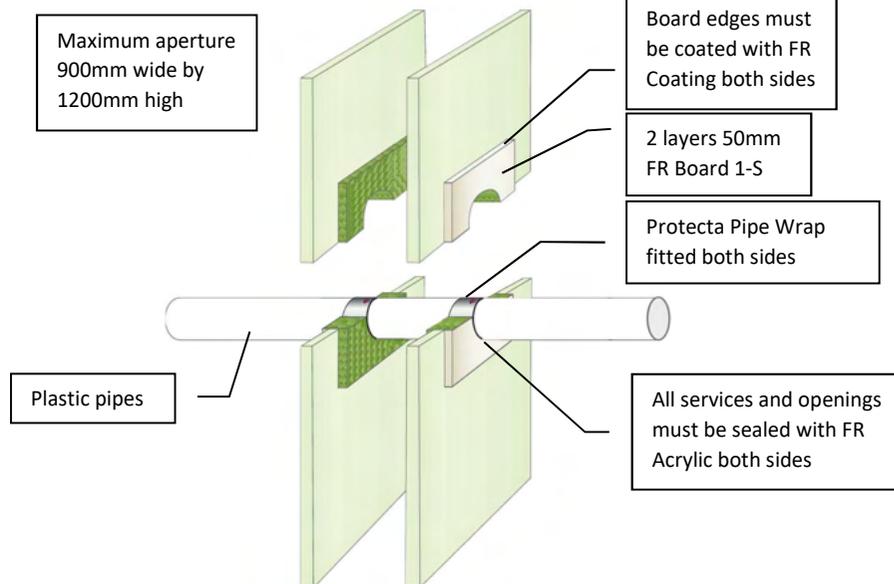
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 5/3/19
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.

Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	4.2 – 10.0mm	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 110mm PP	2.7 – 15.1mm	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 125mm PVC-U & PVC-C	3.7 – 7.4mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	4.8 – 12.0mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 125mm PP	3.1 – 17.1mm	50 x 5.4mm (3 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 160mm PP	4.9 – 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 200mm PP	4.9 – 18.2mm	50 x 10.8mm (6 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 – 12.1mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 – 15.3mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)



ETA 21/0047

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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 Board
Protecta FR Coating
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

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

For fire classifications please see the table on the left.

Sound reduction (seal only)

52 dB



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Tel: +44 (0) 148 4421036

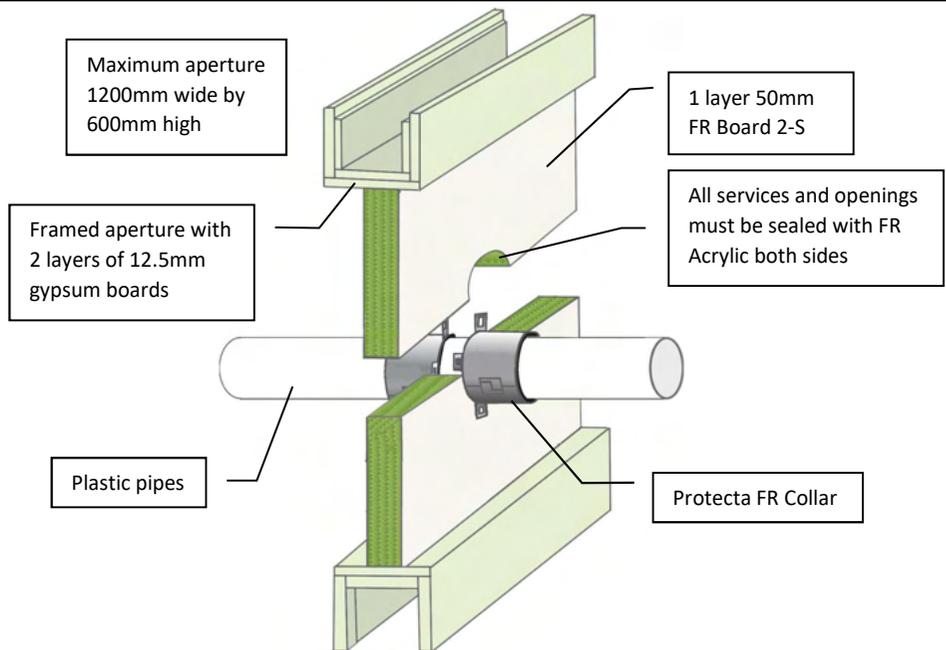
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: **2/3/21**

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Plastic pipes must be secured with Protecta FR Collar on both sides, fixed with 50mm pigtail screws.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Pipe & Collar Descriptions	Pipe Wall Thickness	Min. Collar Height	Classification
≤ Ø 110mm PVC-U & PVC-C	1.9 – 6.6mm	30mm	EI 30 U/C (E 90 U/C)
≤ Ø 50mm PVC-U & PVC-C	1.9 – 3.7mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PVC-U & PVC-C	2.1 – 6.6mm	50mm	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PVC-U & PVC-C	3.1 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	30mm	EI 45 U/C (E 60 U/C)
≤ Ø 50mm PE, ABS & SAN+PVC	3.0 – 4.6mm	50mm	EI 60 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.0 – 10.0mm	50mm	EI 60 C/C (E 90 C/C)
≤ Ø 160mm PE, ABS & SAN+PVC	3.9 – 9.5mm	60mm	EI 60 C/C (E 60 C/C)
≤ Ø 90mm PP	1.8 – 4.6mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 110mm PP	2.7mm	50mm	EI 60 C/C (E 60 C/C)
≤ Ø 160mm PP	3.4 – 9.1mm	60mm	EI 60 C/C (E 60 C/C)

Minimum separations and limitations

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



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Collar

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

For fire classifications please see the table on the left.

Sound reduction (seal only) 29 dB



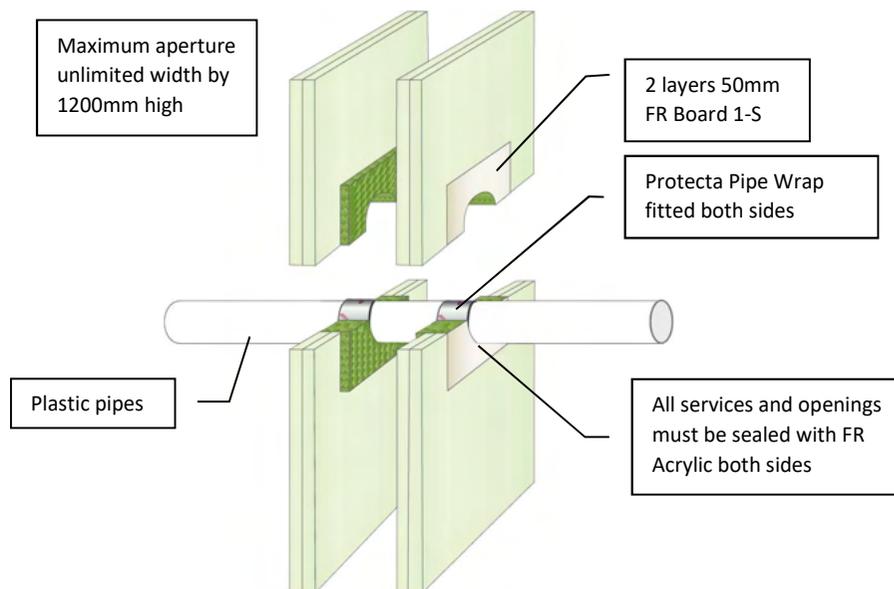
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Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 27/02/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.

Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	4.2 – 10.0mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PP	2.7 – 15.1mm	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 125mm PVC-U & PVC-C	3.7 – 7.4mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	4.8 – 12.0mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PP	3.1 – 17.1mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PP	4.9 – 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PP	4.9 – 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 – 12.1mm	50 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 – 15.3mm	50 x 28.8mm (16 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)



ETA 21/0047

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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 Board Protecta FR Acrylic Protecta FR Pipe Wrap 25m
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

For fire classifications please see the table on the left.

Sound reduction (seal only) 52 dB



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

Tel: +44 (0) 148 4421036

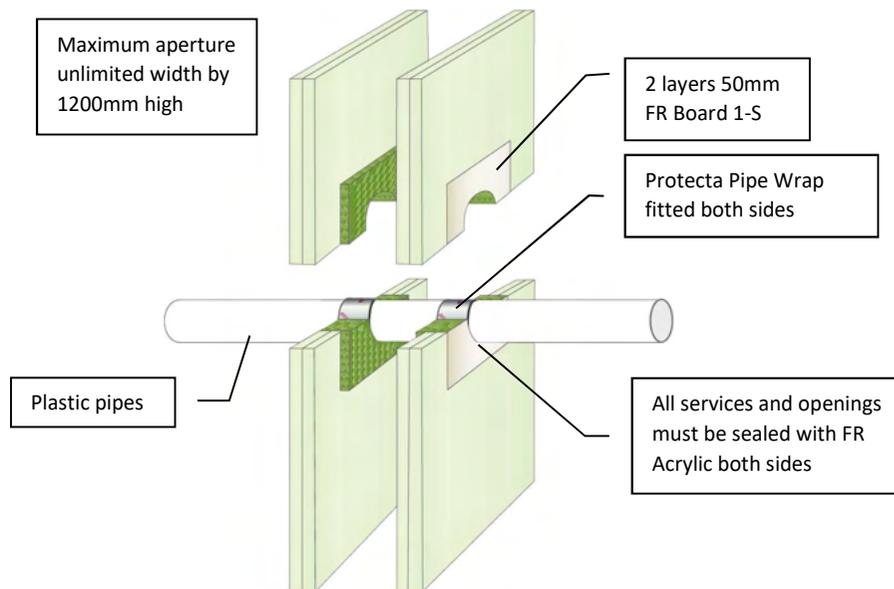
Email: post.uk@polyseam.com

Sheet size:	Drawn date & no:
A4	27/2/21

Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	3.8 – 4.6mm	50 x 1.8mm (1 layer)	EI 120 C/C (E 120 C/C)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 110mm PP	2.7 – 10.0mm	50 x 3.6mm (2 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)

Minimum separations and limitations An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

Application Fire stopping of plastic 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

For fire classifications please see the table on the left.

Sound reduction (seal only) 52 dB



Protecta®

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

Tel: +44 (0) 148 4421036

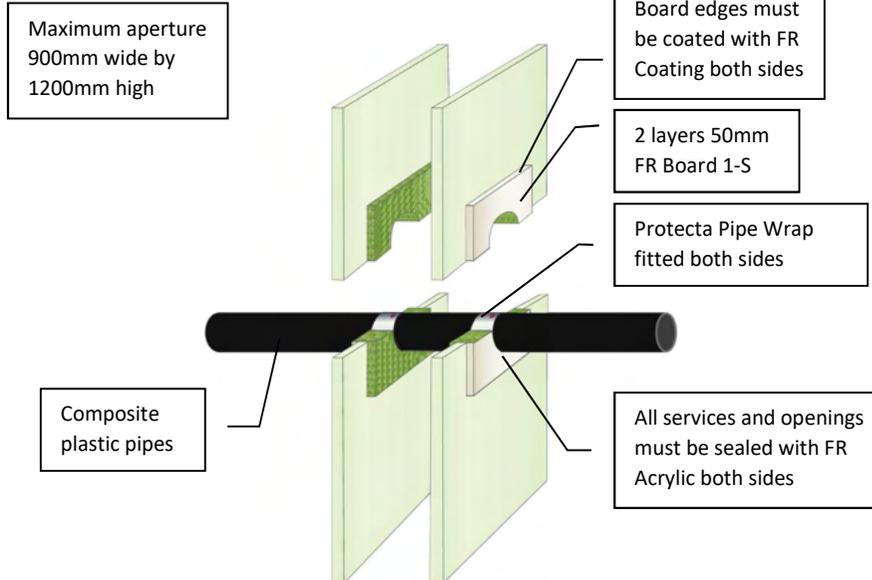
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 27/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.

Services	FR Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 60 C/C (E 60 C/C)
≤ Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 60 C/U (E 60 C/U)
≤ Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 60 U/C (E 60 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/U (E 60 U/U)
≤ Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 60 U/C)



ETA 21/0047

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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 Board
Protecta FR Coating
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

Application
Fire stopping of composite 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

For fire classifications please see the table on the left.

Sound reduction (seal only)

52 dB



Protecta®

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

Tel: +44 (0) 148 4421036

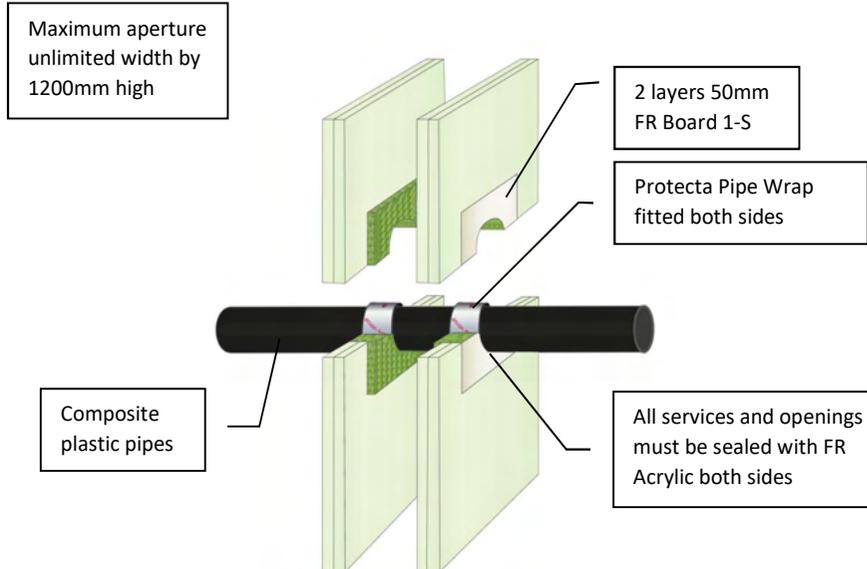
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: **2/3/21**

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.

Services	FR Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 90 C/C (E 120 C/C)
≤ Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
≤ Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
≤ Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
≤ Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
≤ Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
≤ Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

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

For fire classifications please see the table on the left.

Sound reduction (seal only) 52 dB



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

Tel: +44 (0) 148 4421036

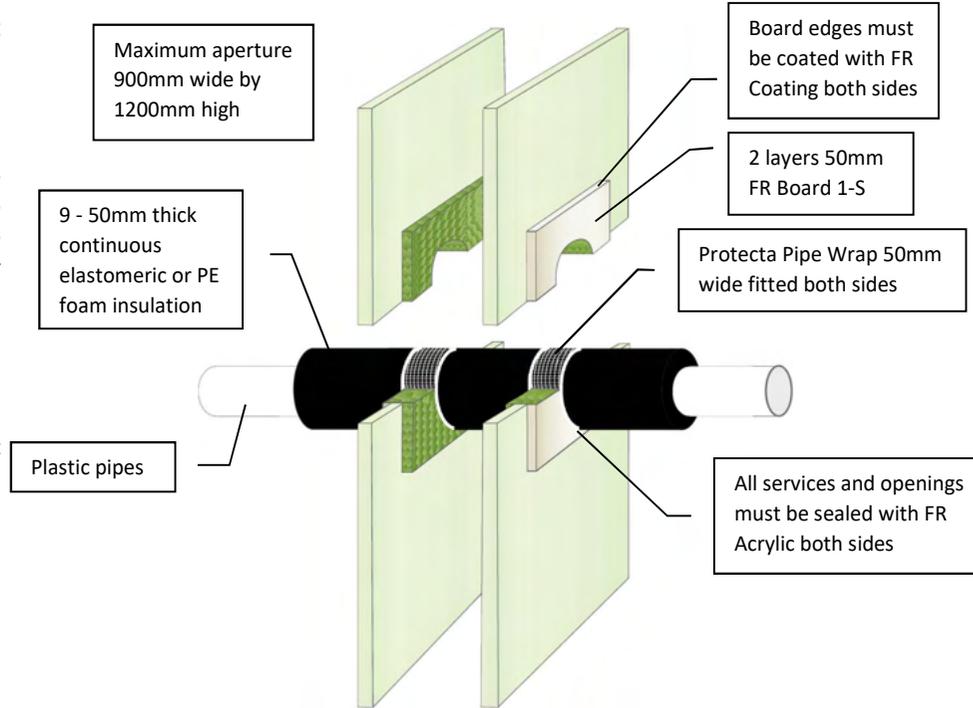
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 27/2/21

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

Client:	
Job Title:	
Products	Protecta FR Board & FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated 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 and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø68mm incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø178mm incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PE pipes ≤ Ø160mm with wall thickness 3.0 - 9.5mm, and ≤ Ø260mm incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, ≤ Ø68mm incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, ≤ Ø178mm incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PP pipes ≤ Ø160mm with wall thickness 1.8 - 14.6mm, and ≤ Ø260mm incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
Sound reduction (seal only)	52 dB
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Sheet size:	Drawn date & no:
A4	2/3/21
Scale:	Drawn by:
NTS	K.B

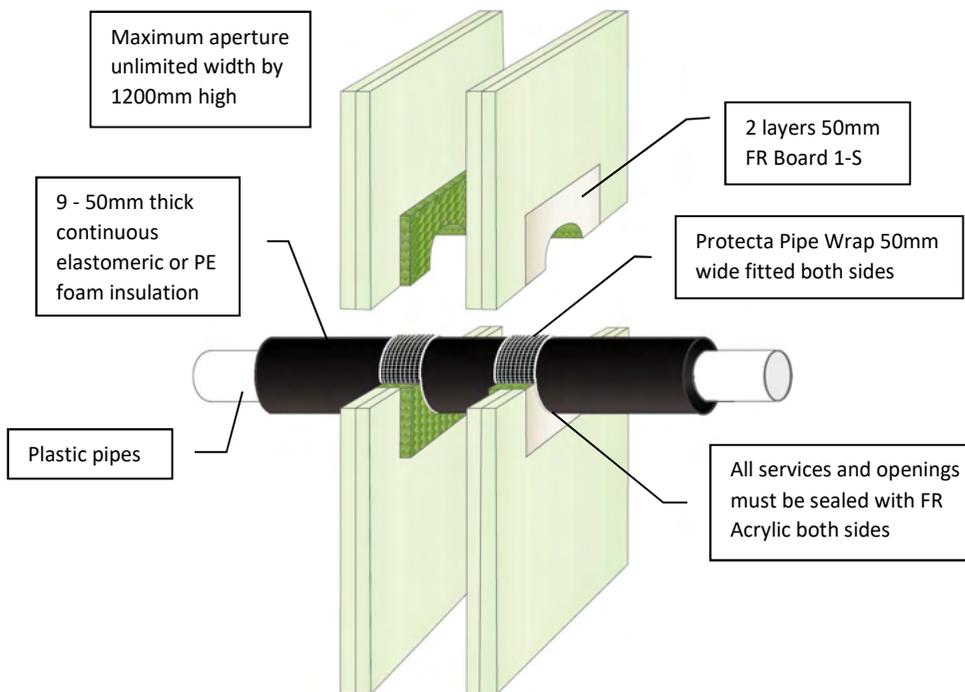
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Signed and approved:

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap 25m
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, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø68mm incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø178mm incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PE pipes ≤ Ø160mm with wall thickness 3.0 - 9.5mm, and ≤ Ø260mm incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, ≤ Ø68mm incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, ≤ Ø178mm incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PP pipes ≤ Ø160mm with wall thickness 1.8 - 14.6mm, and ≤ Ø260mm incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
Sound reduction (seal only)	52 dB
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB	
Sheet size:	Drawn date & no:
A4	27/02/21
Scale:	Drawn by:
NTS	K.B

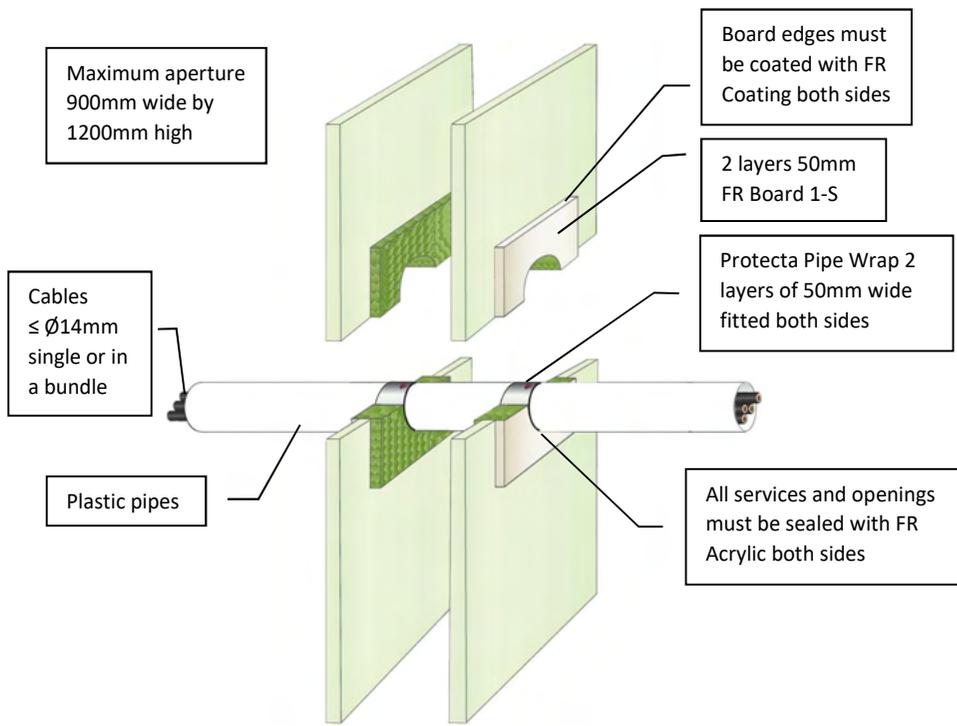
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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

Client:

Job Title:

Products	Protecta FR Board & FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap
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	
Conduits of PVC-U & PVC-C pipe ≤ Ø110mm with wall thickness 2.7 - 6.6mm	EI 60 U/C & E 60
Conduits of PE, ABS & SAN+PVC pipes ≤ Ø110mm with wall thickness 4.2 - 10.0mm	EI 60 U/C & E 60
Conduits of PP pipe ≤ Ø110mm with wall thickness 2.7 - 15.1mm	EI 60 U/C & E 60
Sound reduction (seal only)	52 dB

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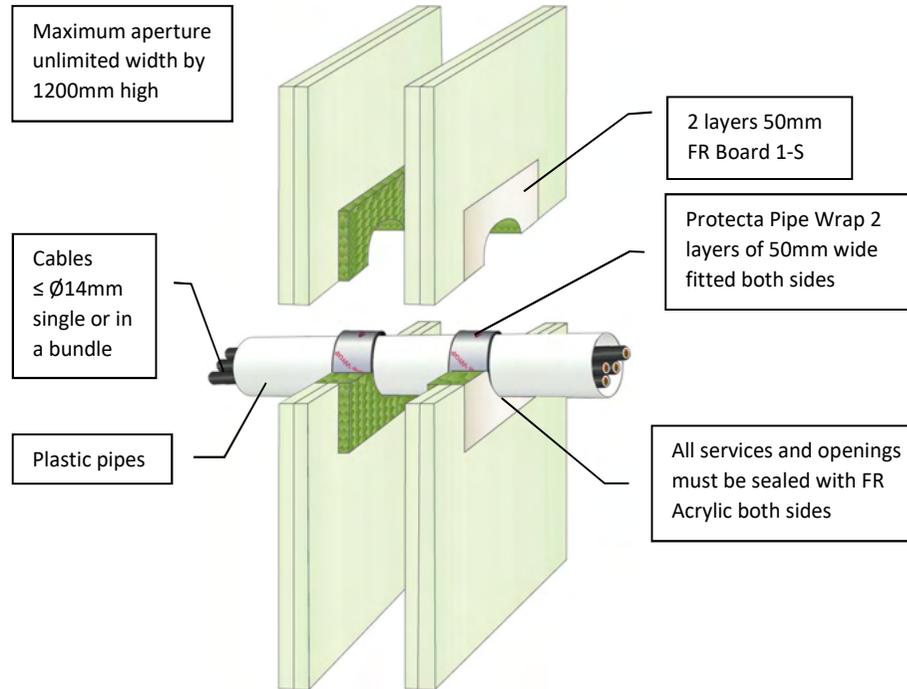
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Sheet size:	Drawn date & no:
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Scale:	Drawn by:
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
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

Conduits of PVC-U & PVC-C pipe ≤ Ø110mm with wall thickness 2.7 - 6.6mm	EI 90 U/C & E 120
Conduits of PE, ABS & SAN+PVC pipes ≤ Ø110mm with wall thickness 4.2 - 10.0mm	EI 90 U/C & E 120
Conduits of PP pipe ≤ Ø110mm with wall thickness 2.7 - 15.1mm	EI 90 U/C & E 120
Sound reduction (seal only)	52 dB



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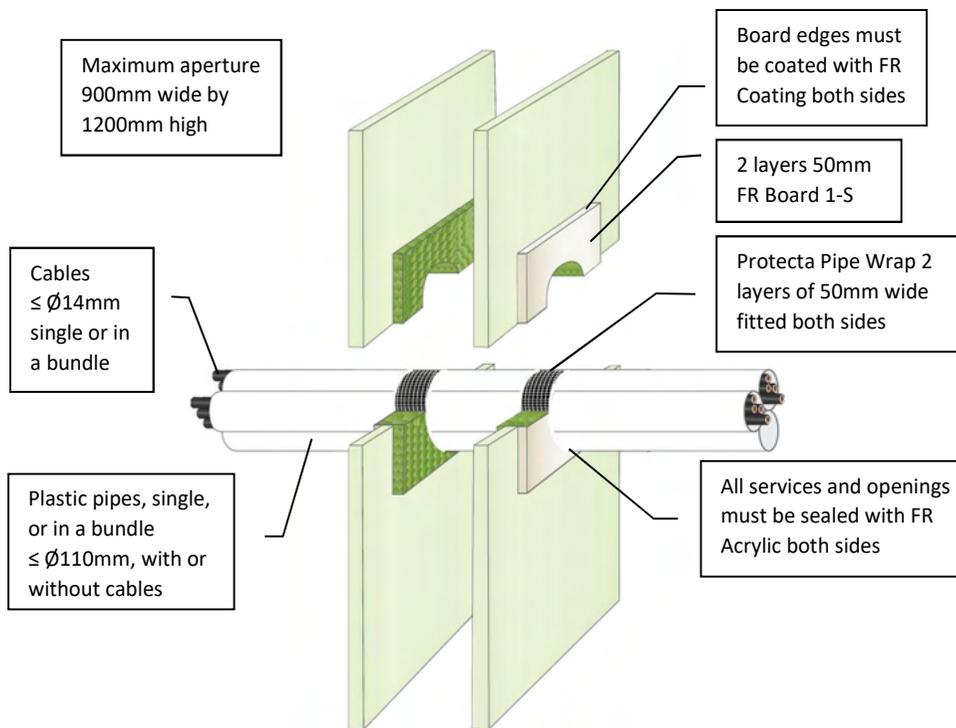
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards must be installed back-to-back and positioned centrally within the wall.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

Client:

Job Title:

Products	Protecta FR Board & FR Coating Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of plastic pipes and 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-U & PVC-C pipe ≤ Ø32mm with wall thickness 1.5 - 2.4mm	
PE, ABS & SAN+PVC pipes ≤ Ø40mm with wall thickness 2.0 - 3.7mm	
PP pipes ≤ Ø40mm with wall thickness 1.8 - 2.0mm	
Above pipes combined	EI 60 U/C & E 60
Sound reduction (seal only)	52 dB

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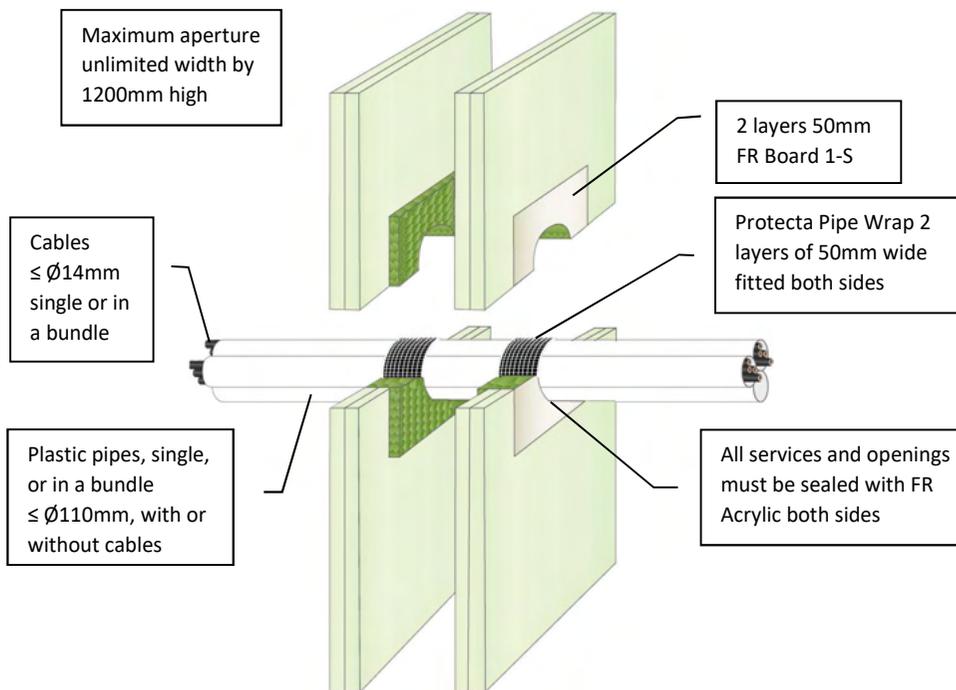
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The coated side of the board should be flush with the surface of the drywall on both sides.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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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 Board Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of plastic pipes and 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.

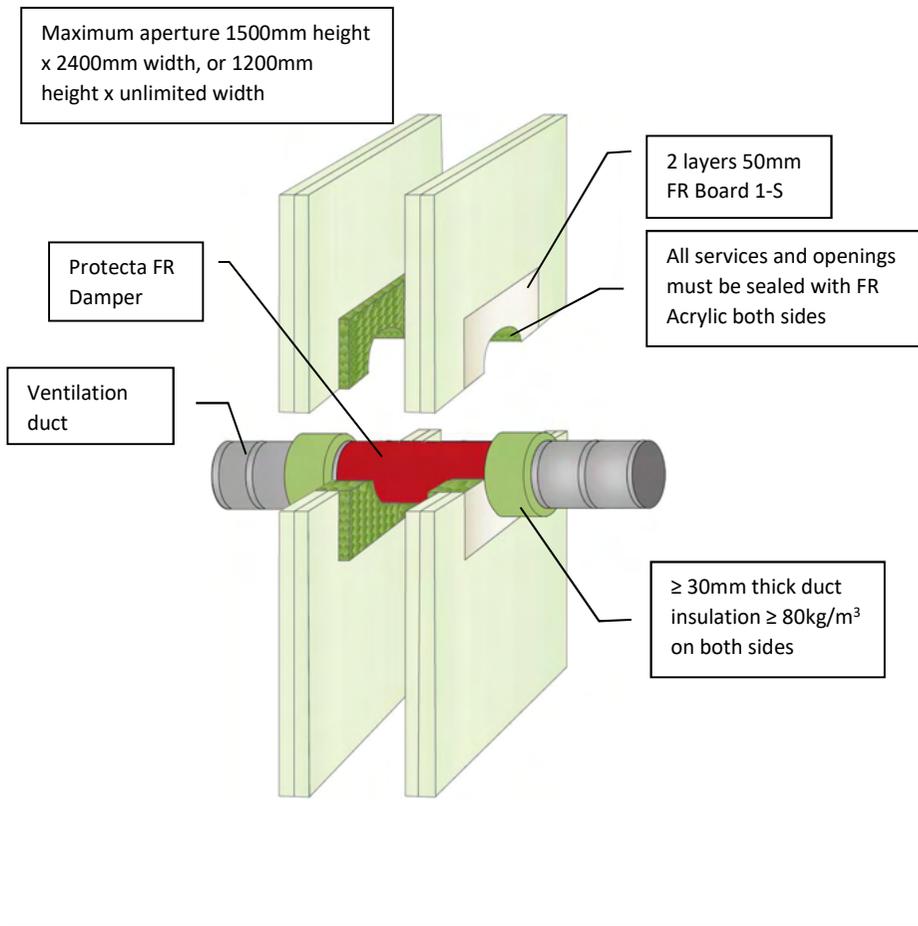
Fire & Sound classification	
PVC-U & PVC-C pipe ≤ Ø32mm with wall thickness 1.5 - 2.4mm	
PE, ABS & SAN+PVC pipes ≤ Ø40mm with wall thickness 2.0 - 3.7mm	
PP pipes ≤ Ø40mm with wall thickness 1.8 - 2.0mm	
Above pipes combined	EI 90 U/C & E 90
Sound reduction (seal only)	52 dB

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Installation Instructions

1. Before installing the fire seal 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. The dampers can be fitted in the apertures either by connecting them to the ventilation ducts before the fire seal is started, or fixed in the apertures with the fire seal, and connected to the ducts afterwards. If the latter, the dampers can be friction fitted with pieces of the boards, or install the boards first and make holes to friction fit the dampers afterwards.
3. The blades inside the damper must be aligned horizontally.
4. The coated side of the board should be flush with the surface of the wall on both sides. In seals wider than 2400mm, uninterrupted separating studs will be required at 2400mm centres or less.
5. Cut the required boards to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Insulate the duct towards the fire seal with a mineral fibre mat, with or without aluminium foil. If the duct is ending in a wall then insulate on one side only



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture.



This product is certified to applicable European (EN) standards and UL-EU Mark service requirements.

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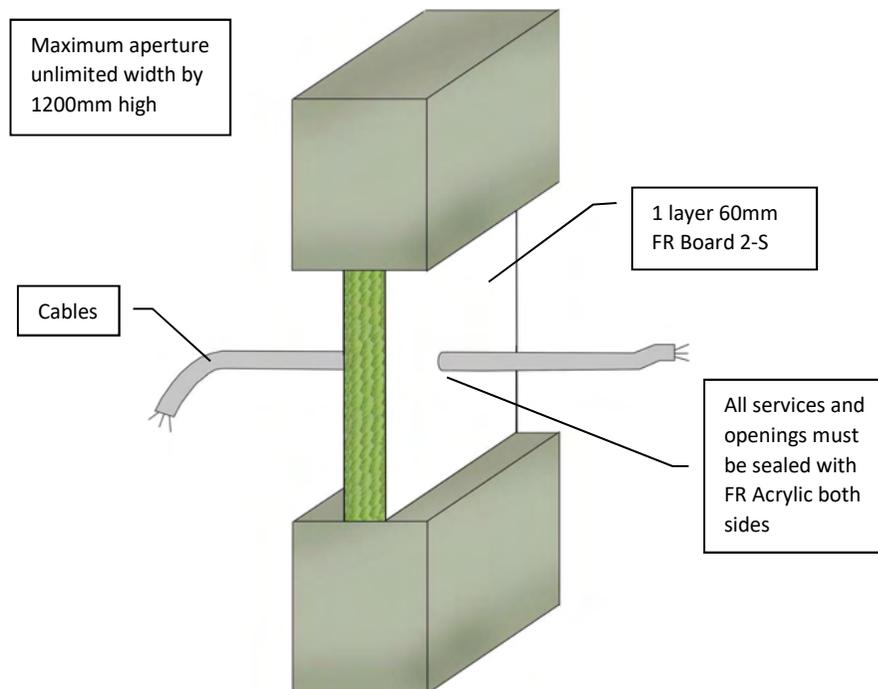
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Damper
Application	Fire stopping of ventilation 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	
≤ Ø 400mm damper/duct with ≥ 200mm stone wool matt on both sides EI 120 & E 120	
≤ Ø 1250mm damper/duct with ≥ 500mm stone wool matt on both sides EI 60 & E 90	
≤ 600mm high x 1000mm wide damper/duct with ≥ 500mm stone wool matt on both sides EI 120 & E 120	
≤ 1200mm high x 1700mm wide damper/duct with ≥ 500mm stone wool matt on both sides EI 90 & E 90	
Sound reduction (seal only) 52 dB	
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NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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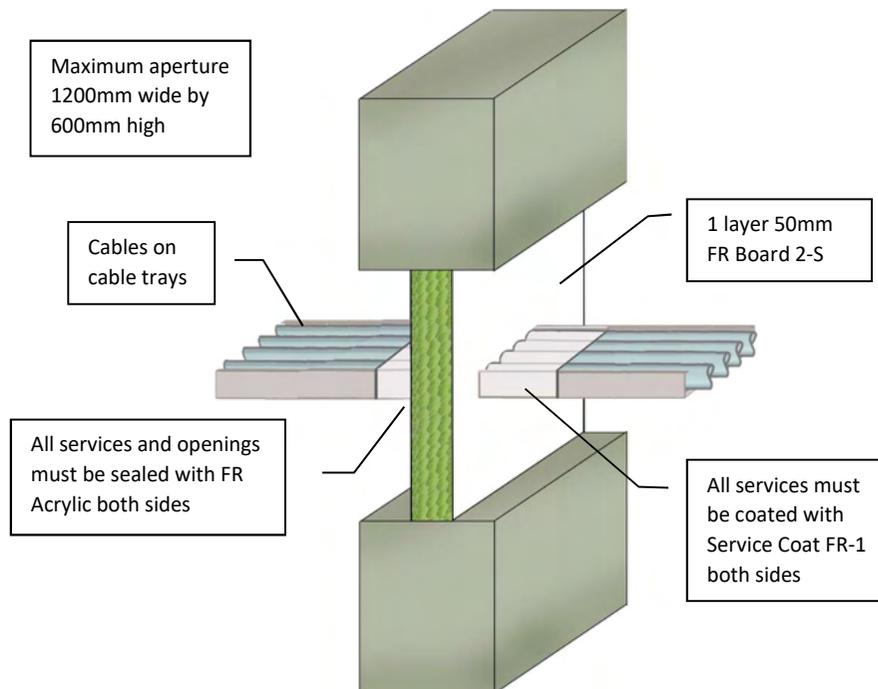
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of cables in rigid walls
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Cables $\leq \text{Ø}21\text{mm}$	EI 90 & E 120
Sound reduction (seal only)	29 dB
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. All cables and cable trays must be coated 150mm each side with 300µ WFT Protecta Service Coat FR-1.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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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 Board
Protecta FR Acrylic
Protecta FR ServiceCoat FR-1

Application Fire stopping of cables on cable trays in rigid walls

Construction Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

Cables ≤ Ø80mm single or bundled, with or without perforated cable trays and ladders
EI 60 & E 60

Sound reduction (seal only)
29 dB



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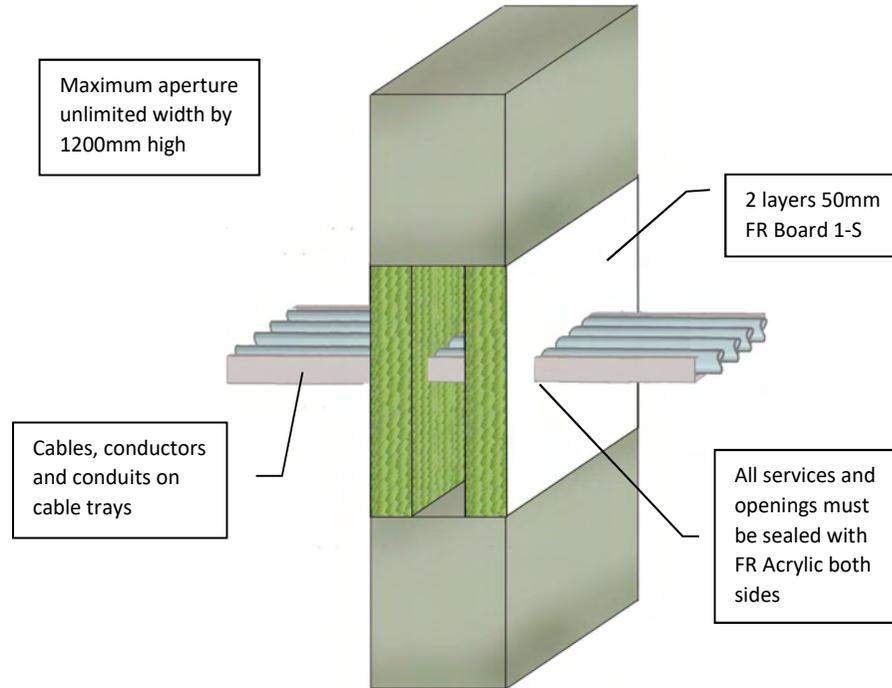
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
 Protecta FR Acrylic
Application Fire stopping of cables, conductors and conduits on cable trays in rigid walls
Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification

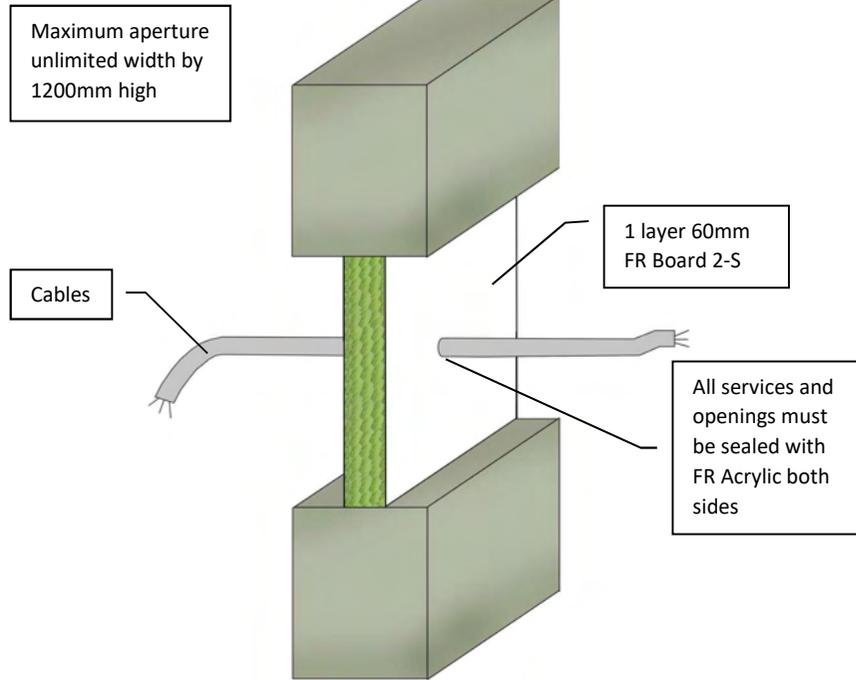
Cables ≤ Ø21mm	EI 60 & E 120
Cables ≤ Ø80mm single and bundled, and steel and plastic conduits ≤ Ø16mm with or without trays	EI 60 & E 60
Non-sheathed conductors ≤ 185mm ² and copper conduits ≤ Ø16mm, with or without trays	EI 30 & E 60
Sound reduction (seal only)	52 dB

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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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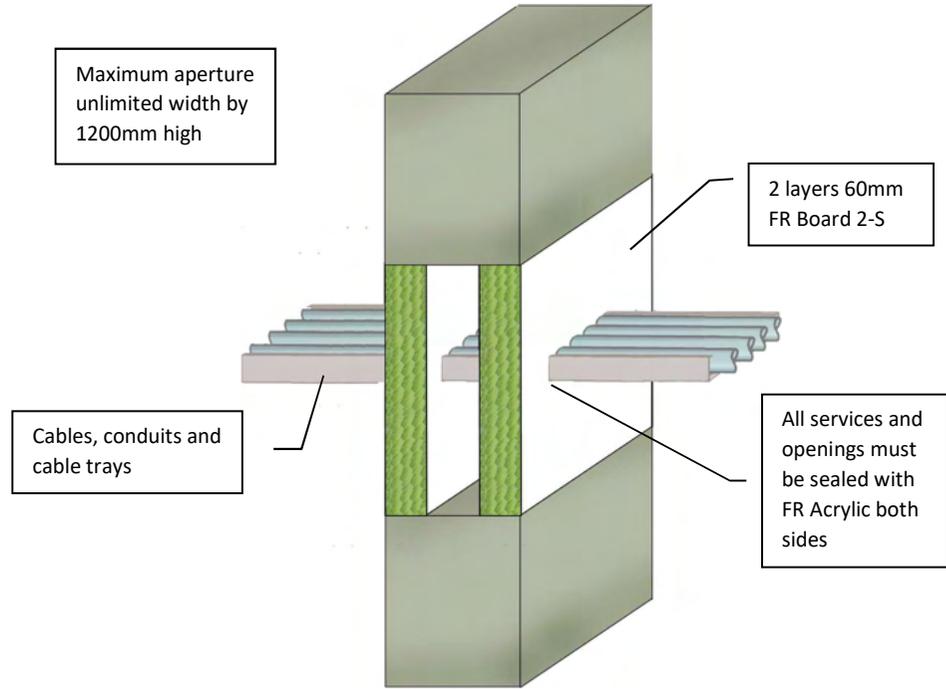
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of cables in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Cables $\leq \text{Ø}21\text{mm}$	EI 90 & E 240
Sound reduction (seal only)	29 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of cables and conduits on cable trays in rigid walls

Construction Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Cables $\leq \varnothing 21\text{mm}$, single and bundled, with or without trays	EI 180 & E 240
Cables $\leq \varnothing 21\text{mm}$, single and bundled, and plastic conduits $\leq \varnothing 16\text{mm}$, with or without trays	EI 180 & E 180
Cables $\leq \varnothing 80\text{mm}$, single and bundled, with or without trays	EI 60 & E 180
Sound reduction (seal only)	52 dB



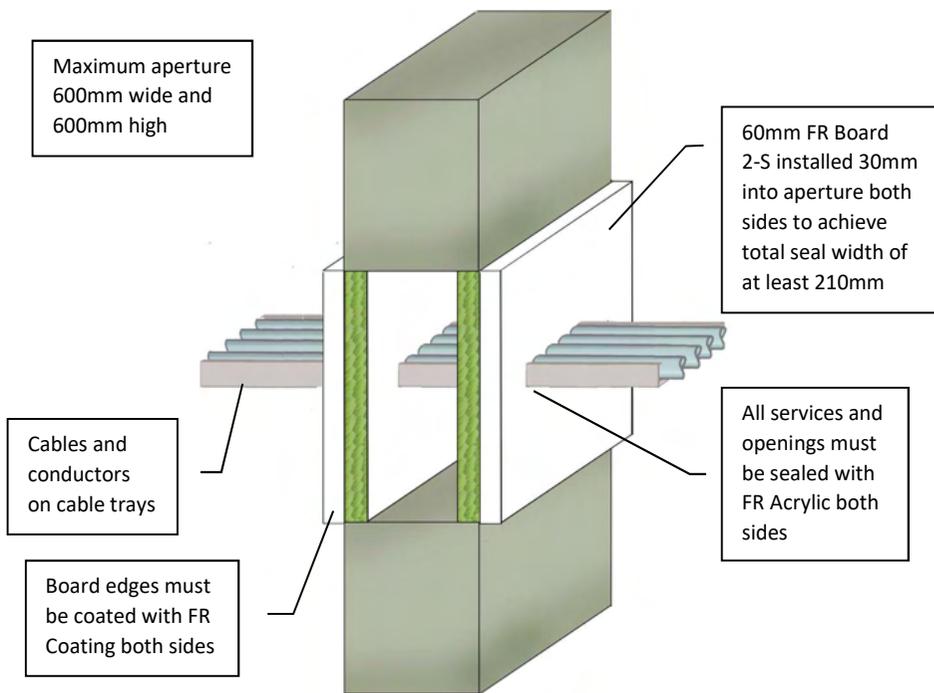
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Scale: **NTS** Drawn by: **K.B**

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. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
3. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
4. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board Protecta FR Acrylic Protecta FR Coating
Application	Fire stopping of cables, conductors and conduits on cable trays in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Cables $\leq \varnothing 21\text{mm}$ in tied bundles $\leq \varnothing 100\text{mm}$ with or without trays EI 240 & E 240	
Cables $\leq \varnothing 80\text{mm}$, single and bundled, with or without trays EI 60 & E 240	
Non-sheathed conductors $\leq 95\text{mm}^2$ each, with or without trays EI 180 & E 240	
Non-sheathed conductors $\leq 185\text{mm}^2$ each, with or without trays EI 90 & E 240	
Sound reduction (seal only) 53 dB	

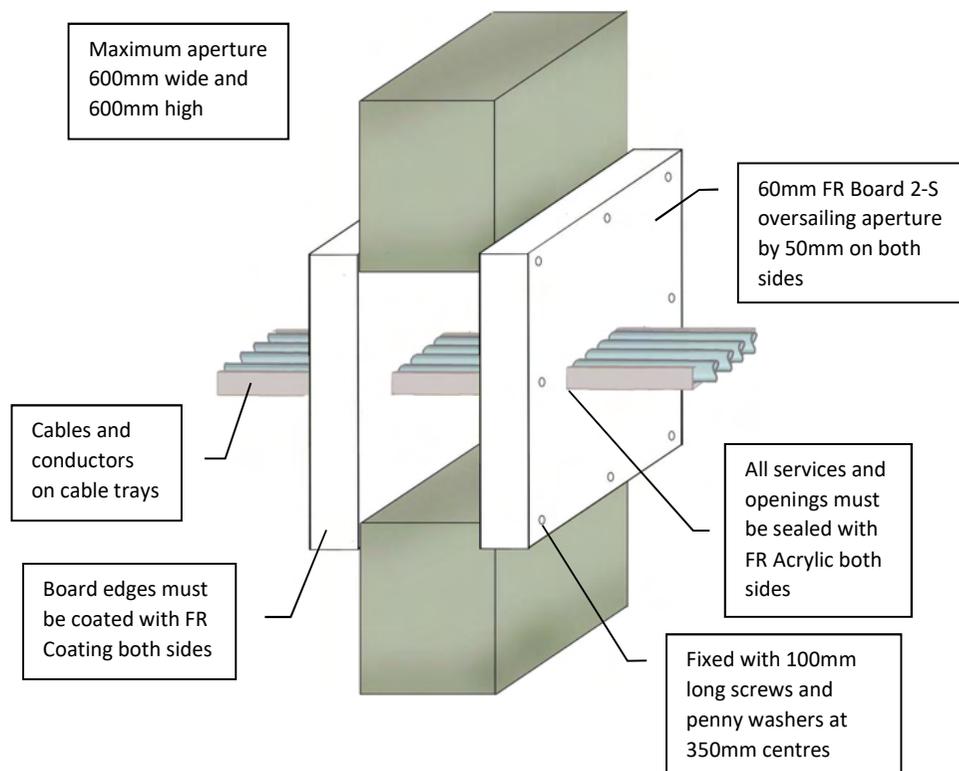


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Sheet size:	Drawn date & no:
A4	6/3/21
Scale:	Drawn by:
NTS	K.B

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. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
3. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
4. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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Signed and approved:

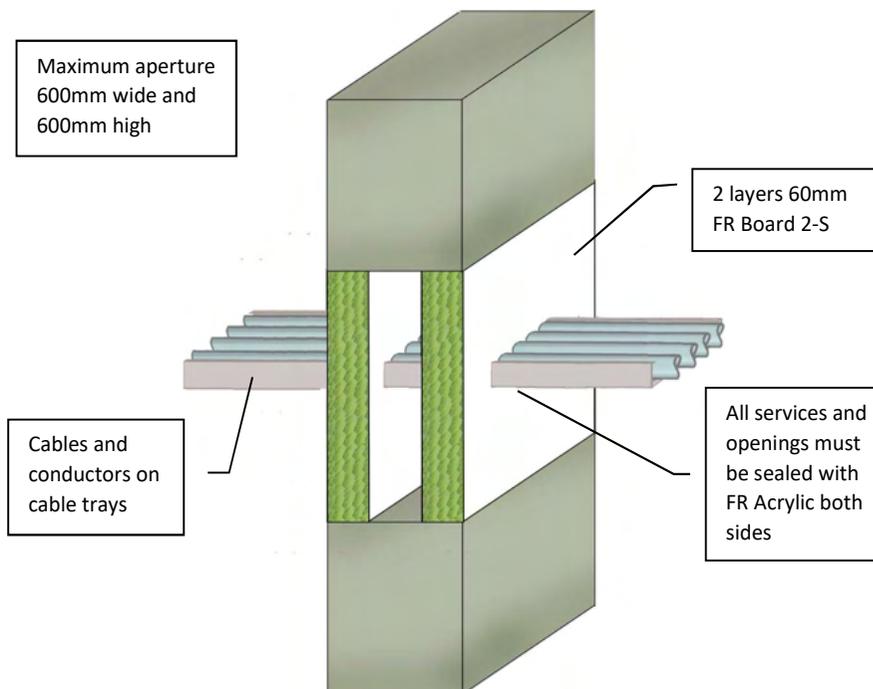
Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Coating
Application	Fire stopping of cables and conductors on cable trays in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Cables $\leq \varnothing 21\text{mm}$ in tied bundles $\leq \varnothing 100\text{mm}$ with or without trays EI 240 & E 240	
Cables $\leq \varnothing 50\text{mm}$, single and bundled, with or without trays EI 90 & E 240	
Cables $\leq \varnothing 80\text{mm}$, single and bundled, with or without trays EI 60 & E 240	
Non-sheathed conductors $\leq 185\text{mm}^2$ each, with or without trays EI 120 & E 240	
Sound reduction (seal only) 53 dB	

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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 90mm between the boards.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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Signed and approved:

Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Coating

Application Fire stopping of cables, conductors and conduits on cable trays in rigid walls

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

Fire & Sound classification
Cables $\leq \varnothing 21\text{mm}$ in tied bundles $\leq \varnothing 100\text{mm}$ with or without trays EI 240 & E 240

Cables $\leq \varnothing 80\text{mm}$, single and bundled, with or without trays EI 60 & E 240

Non-sheathed conductors $\leq 95\text{mm}^2$ each, with or without trays EI 180 & E 240

Non-sheathed conductors $\leq 185\text{mm}^2$ each, with or without trays EI 90 & E 240

Sound reduction (seal only) 53 dB



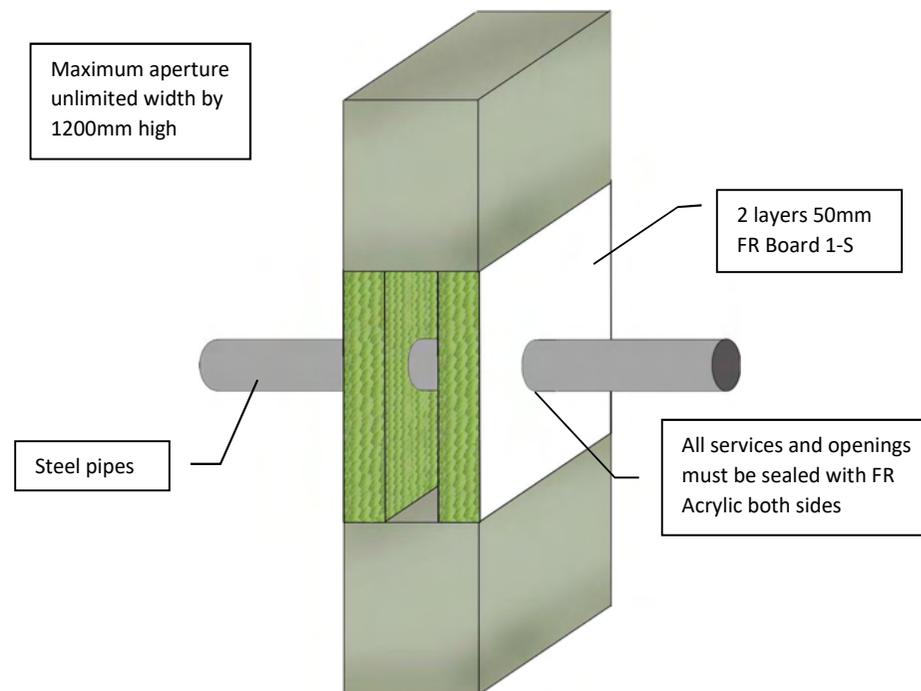
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Scale: **NTS** Drawn by: **K.B**

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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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Signed and approved:

Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

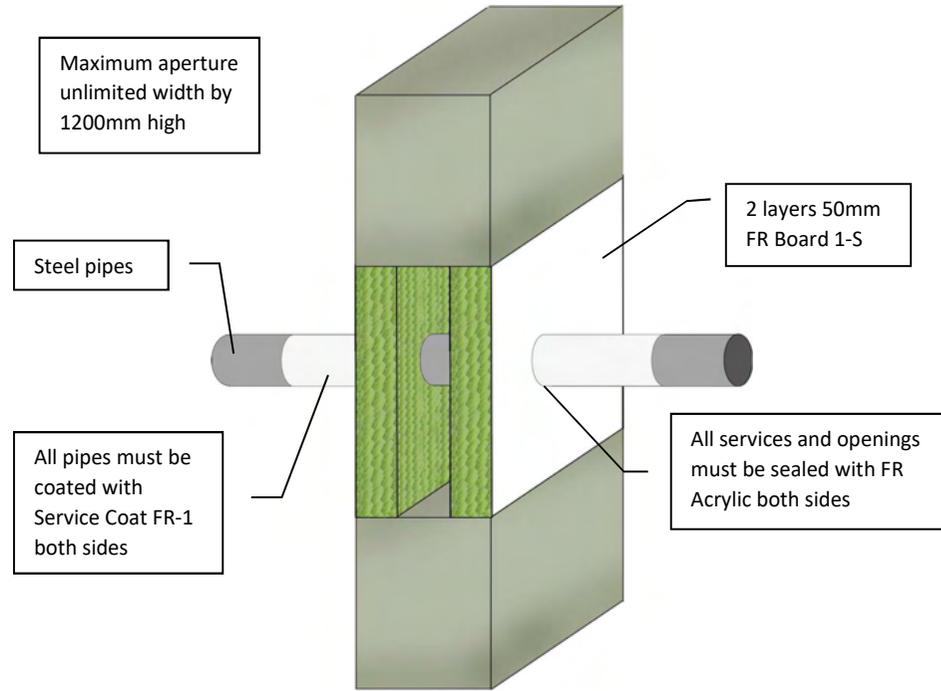
Steel pipes $\leq \varnothing 22\text{mm}$	EI 60 C/U & E 120
Steel pipes $\leq \varnothing 63\text{mm}$	EI 30 C/U & E 120
Steel pipes $\leq \varnothing 324\text{mm}$	EI 20 C/U & E 120
Sound reduction (seal only)	52 dB

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Scale: NTS	Drawn by: K.B

Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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Signed and approved:

Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic Protecta Service Coat FR-1
Application	Fire stopping of un-insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

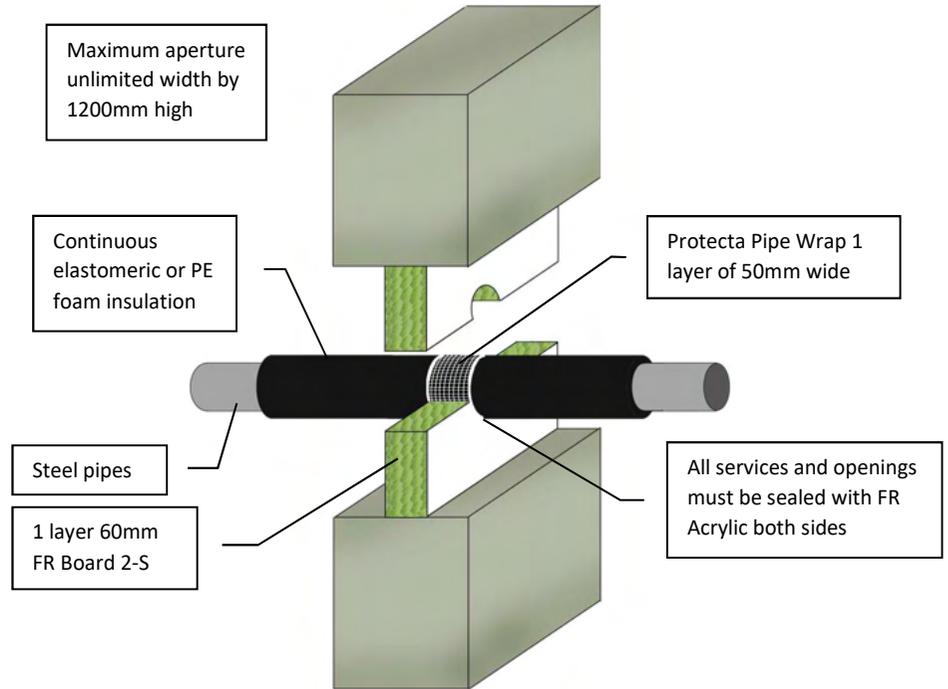
Fire & Sound classification	
Steel pipes $\leq \varnothing 63\text{mm}$ coated 200mm each side with 1150 μ WFT Protecta Service Coat FR-1	EI 120 C/C & E 120
Steel pipes $\leq \varnothing 63\text{mm}$ coated 200mm each side with 2300 μ WFT Protecta Service Coat FR-1	EI 60 C/U & E 120
Steel pipes $\leq \varnothing 114\text{mm}$ coated 200mm each side with 1500 μ WFT Protecta Service Coat FR-1	EI 45 C/U & E 120
Sound reduction (seal only)	52 dB

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Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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Signed and approved:

Client:

Job Title:

Products Protecta FR Board
 Protecta FR Acrylic
 Protecta FR Pipe Wrap 25m

Application Fire stopping of insulated steel pipes in rigid walls

Construction Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification
 Steel pipes ≤ Ø165mm with 9 - 25mm continuous foam insulation
 EI 45 C/U & E 120
 Sound reduction (seal only) 29 dB

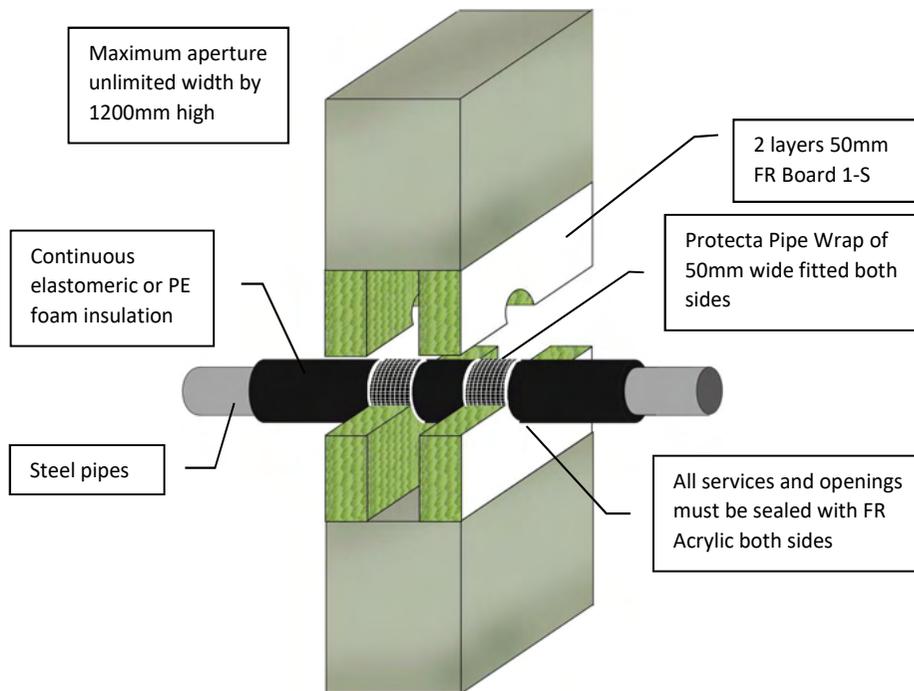
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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Signed and approved:

Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification
Steel pipes $\leq \text{Ø}12\text{mm}$ with 9mm continuous foam insulation and 2 layers of pipe wrap
EI 120 C/C & E 120

Steel pipes $\leq \text{Ø}40\text{mm}$ with 13mm continuous foam insulation and 1 layer of pipe wrap
EI 120 U/U & E 120

Steel pipes $\leq \text{Ø}54\text{mm}$ with 9 - 13mm continuous foam insulation and 2 layers of pipe wrap
EI 90 C/C & E 120

Steel pipes $\leq \text{Ø}165\text{mm}$ with 13 - 32mm continuous foam insulation and 2 layers of pipe wrap
EI 60 U/U & E 120

Steel pipes $\leq \text{Ø}324\text{mm}$ with 32 - 50mm continuous foam insulation and 3 layers of pipe wrap
EI 90 C/U & E 90

Sound reduction (seal only) 52 dB

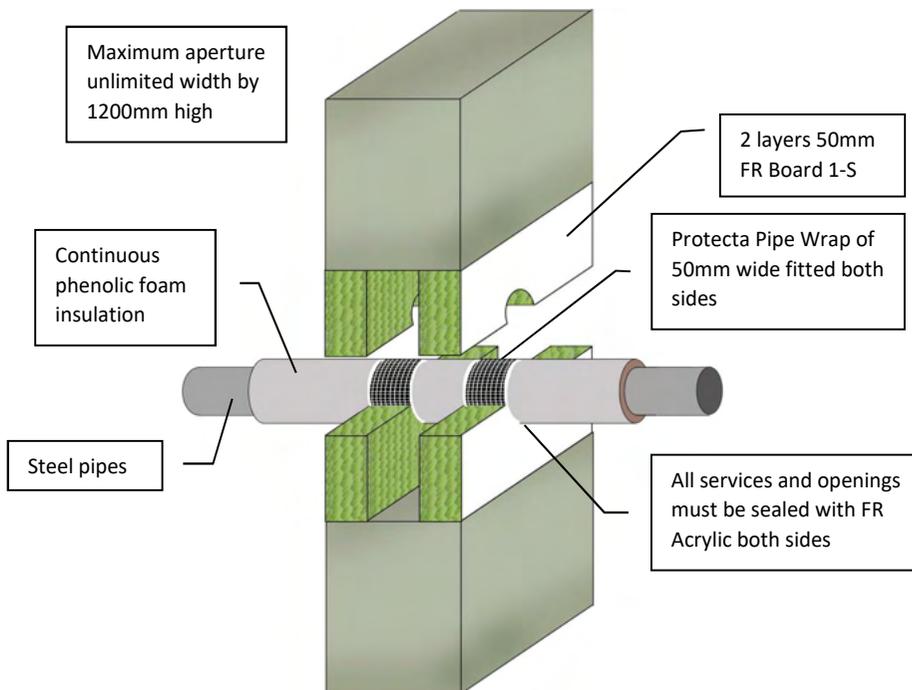

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NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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Signed and approved:

Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

Application Fire stopping of insulated steel pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Steel pipes $\leq \text{Ø}16\text{mm}$ with 15mm continuous foam insulation and 1 layer of pipe wrap
EI 90 C/U & E 90

Steel pipes $\leq \text{Ø}273\text{mm}$ with 25 - 100mm continuous foam insulation and 1 layer of pipe wrap
EI 90 C/U & E 90

Sound reduction (seal only)
52 dB

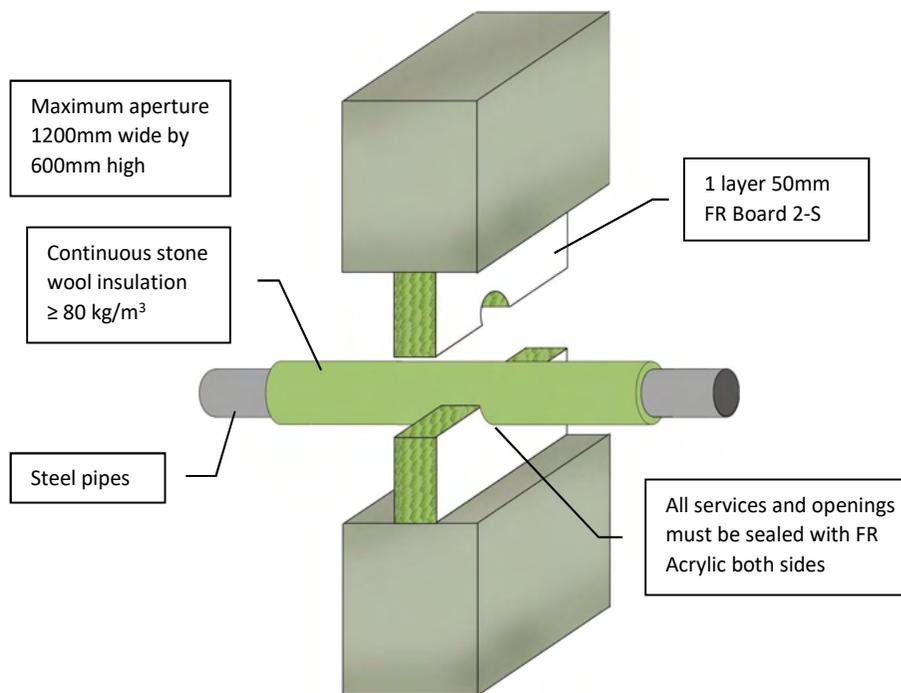
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
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Minimum separations and limitations

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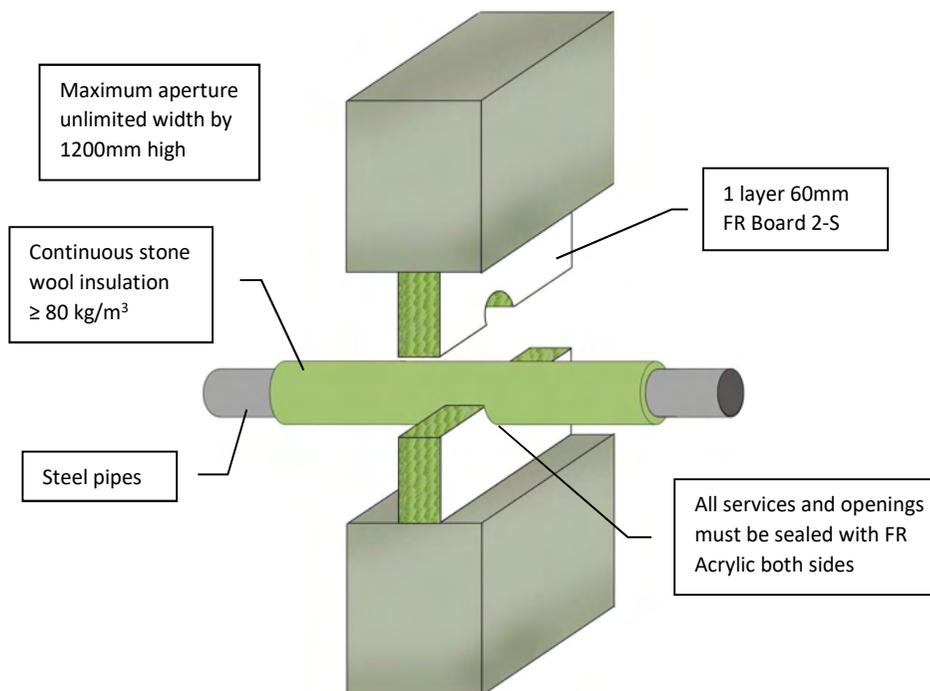
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}324\text{mm}$ with 20-30mm continuous stone wool insulation EI 60 C/U & E 90	
Sound reduction (seal only) 29 dB	
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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



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ETA 21/0047

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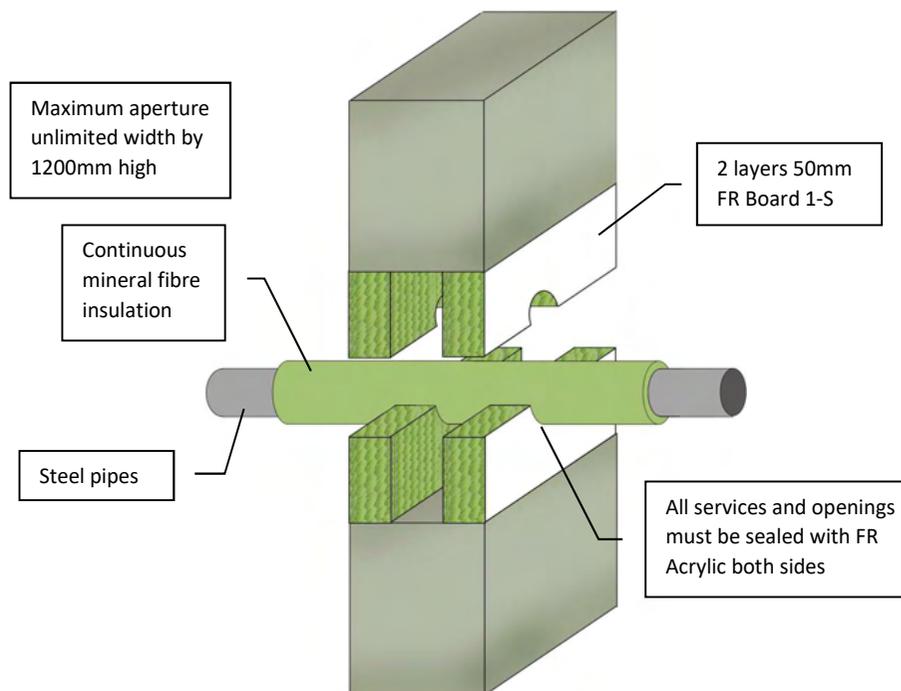
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}219\text{mm}$ with 30 - 50mm continuous insulation	EI 60 C/U & E 120
Steel pipes $\text{Ø}324\text{mm}$ with 30 - 40mm continuous insulation	EI 60 C/U & E 90
Steel pipes $\text{Ø}325\text{mm}$ with 50mm continuous insulation	EI 60 C/U & E 120
Sound reduction (seal only)	29 dB
	
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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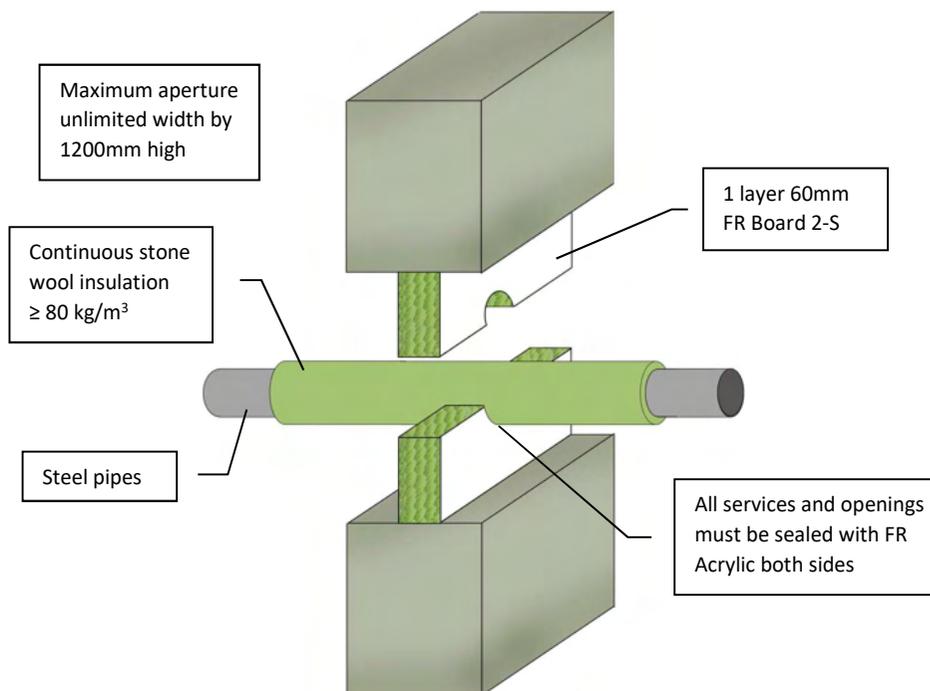
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}15\text{mm}$ with 20mm continuous glass wool insulation $\geq 75 \text{ kg/m}^3$ EI 60 C/C & E 60	
Steel pipes $\leq \text{Ø}54\text{mm}$ with 40mm continuous glass wool insulation $\geq 75 \text{ kg/m}^3$ EI 60 C/C & E 60	
Steel pipes $\leq \text{Ø}324\text{mm}$ with 20 - 80mm continuous stone wool insulation $\geq 80 \text{ kg/m}^3$ EI 120 C/U & E 120	
Sound reduction (seal only)	52 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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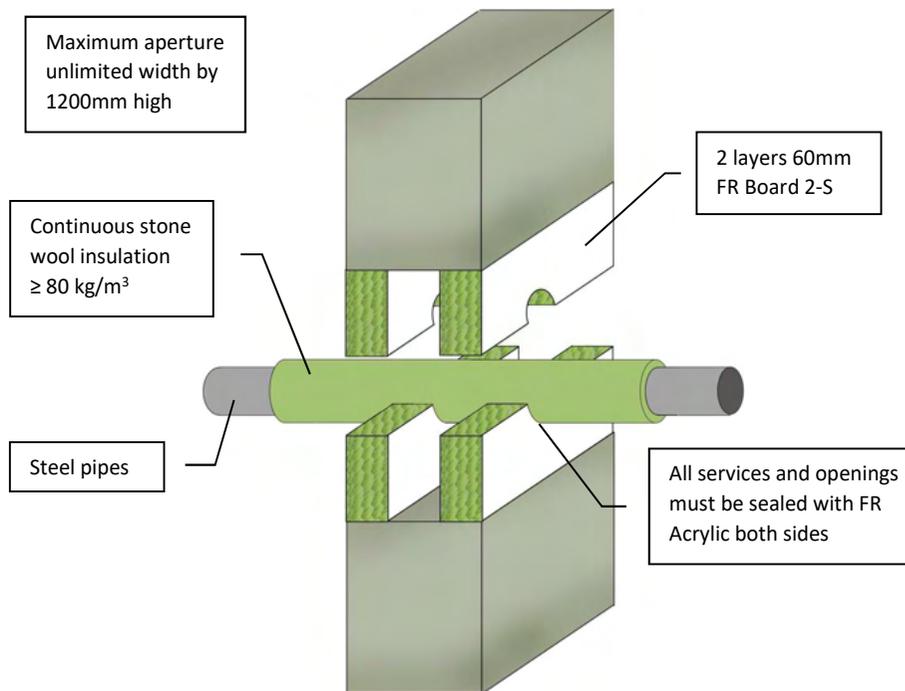
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}219\text{mm}$ with 30mm continuous insulation	EI 60 C/U & E 240
Steel pipes $\text{Ø}219\text{mm}$ with 40mm continuous insulation	EI 60 C/U & E 180
Steel pipes $\text{Ø}325\text{mm}$ with 50mm continuous insulation	EI 60 C/U & E 180
Sound reduction (seal only)	29 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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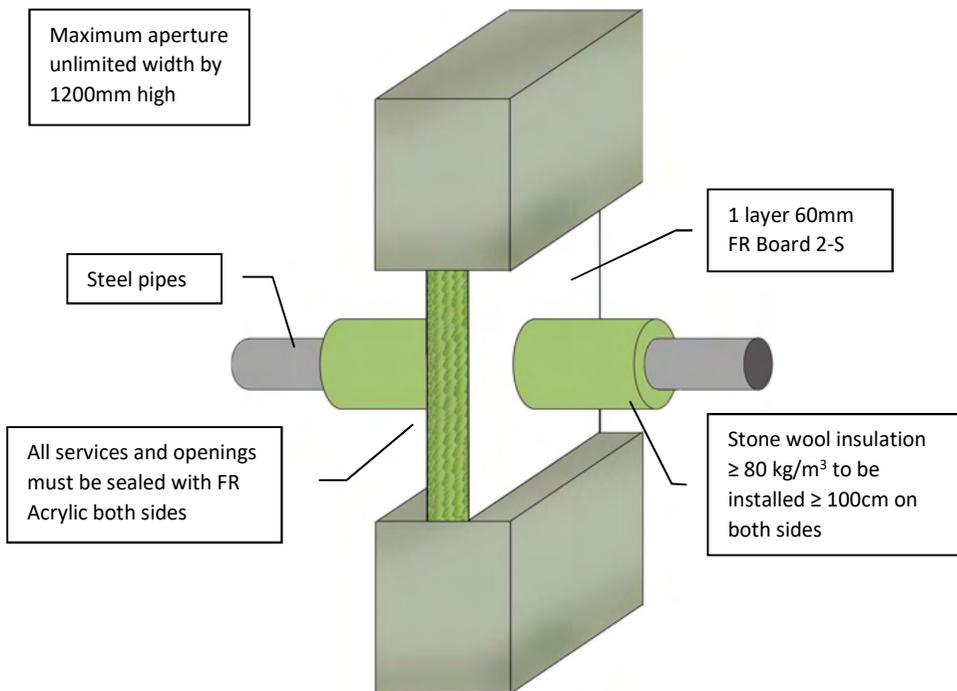
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}40\text{mm}$ with 20mm continuous stone wool insulation	EI 180 C/U & E 240
Steel pipes $\leq \text{Ø}324\text{mm}$ with 30 - 80mm continuous stone wool insulation	EI 180 C/U & E 240
Sound reduction (seal only)	52 dB
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Scale:	Drawn by:
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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 and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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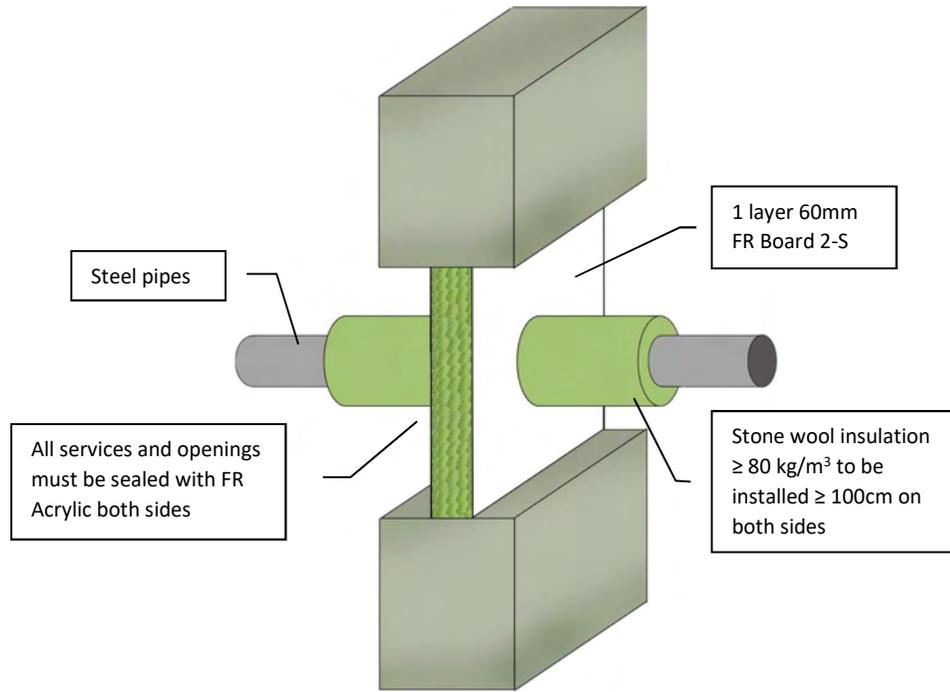
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}325\text{mm}$ with $\geq 30\text{mm}$ insulation EI 90 C/U & E 120	
Sound reduction (seal only) 29 dB	
 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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Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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.
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5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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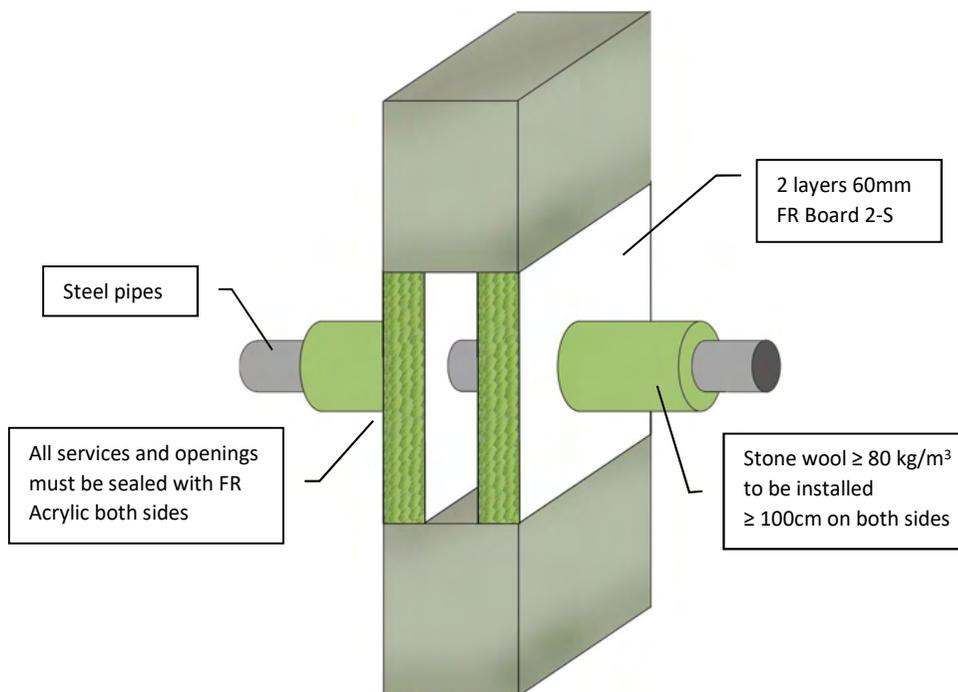
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}40\text{mm}$ with $\geq 20\text{mm}$ insulation in maximum aperture 280 x 280mm EI 240 C/U & E 240	
Steel pipes $\leq \text{Ø}219\text{mm}$ with $\geq 30\text{mm}$ insulation in maximum aperture 280 x 280mm EI 240 C/U & E 240	
Steel pipes $\leq \text{Ø}219\text{mm}$ with $\geq 30\text{mm}$ stone wool insulation in maximum aperture unlimited width by 1200mm high EI 90 C/U & E 240	
Sound reduction (seal only)	29 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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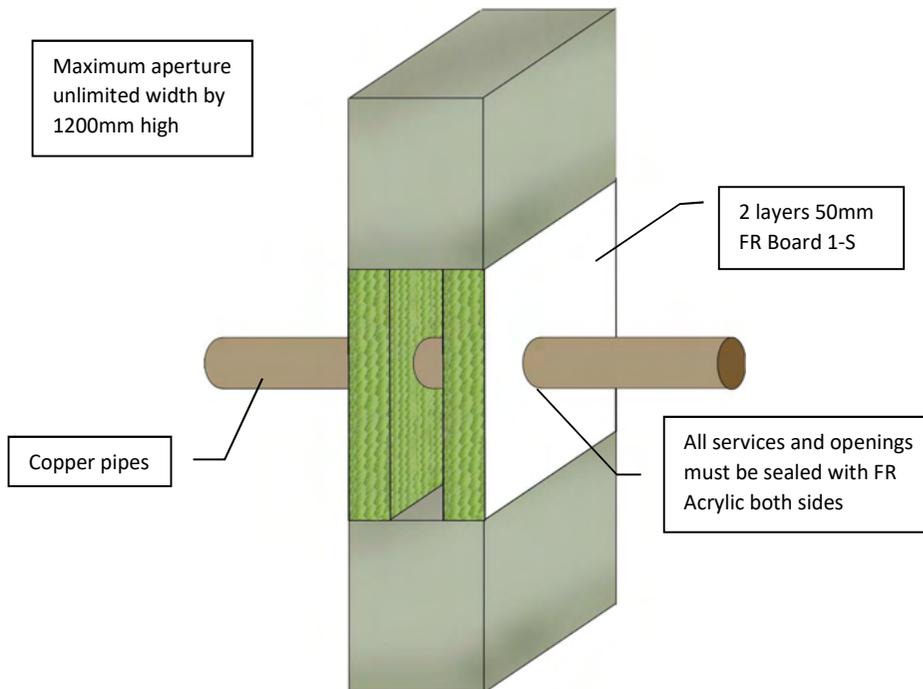
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated steel pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Steel pipes $\leq \text{Ø}40\text{mm}$ with $\geq 20\text{mm}$ insulation in maximum aperture 1200 x 1200mm EI 240 C/U & E 240	
Steel pipes $\leq \text{Ø}40\text{mm}$ with $\geq 20\text{mm}$ insulation in maximum aperture unlimited width by 1200mm high EI 180 C/U & E 240	
Steel pipes $\leq \text{Ø}219\text{mm}$ with $\geq 30\text{mm}$ stone wool insulation in maximum aperture 1200 x 1200mm EI 240 C/U & E 240	
Sound reduction (seal only)	52 dB
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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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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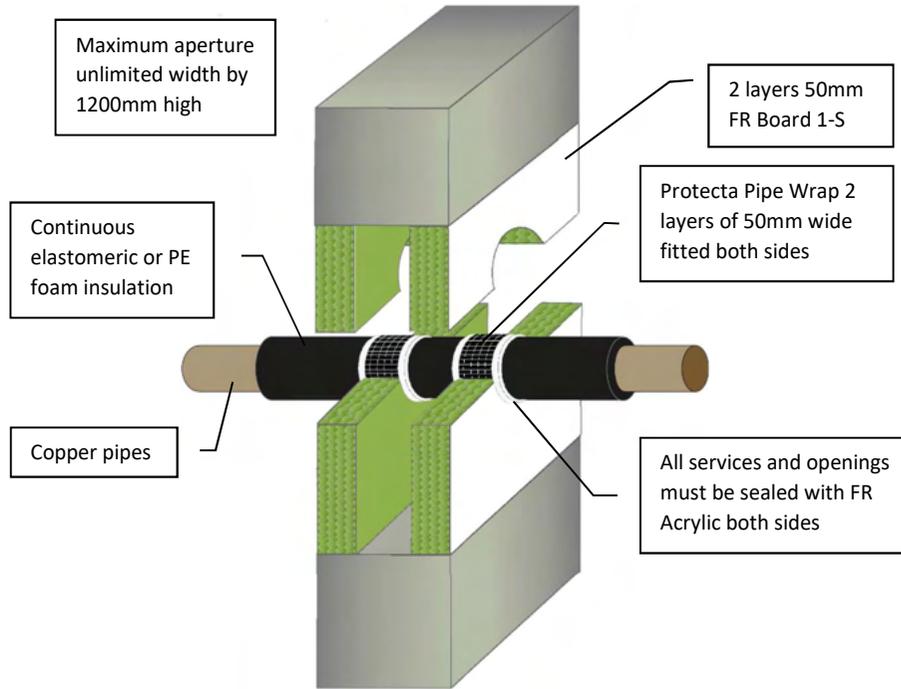
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of un-insulated copper pipes in rigid walls
Construction	Minimum wall thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Copper pipes $\leq \text{Ø}6\text{mm}$	EI 60 C/C & E 120
Copper pipes $\leq \text{Ø}12\text{mm}$	EI 30 C/C & E 120
Copper pipes $\leq \text{Ø}54\text{mm}$	EI 15 C/C & E 120
Sound reduction (seal only)	52 dB
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m
Application Fire stopping of insulated copper pipes in rigid walls
Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification

Copper pipes $\leq \varnothing 12\text{mm}$ with 9mm continuous foam insulation EI 120 C/C & E 120

Copper pipes $\leq \varnothing 54\text{mm}$ with 9 - 13mm continuous foam insulation EI 90 C/C & E 120

Copper pipes $\leq \varnothing 54\text{mm}$ with 14 - 25mm continuous foam insulation EI 60 C/C & E 120

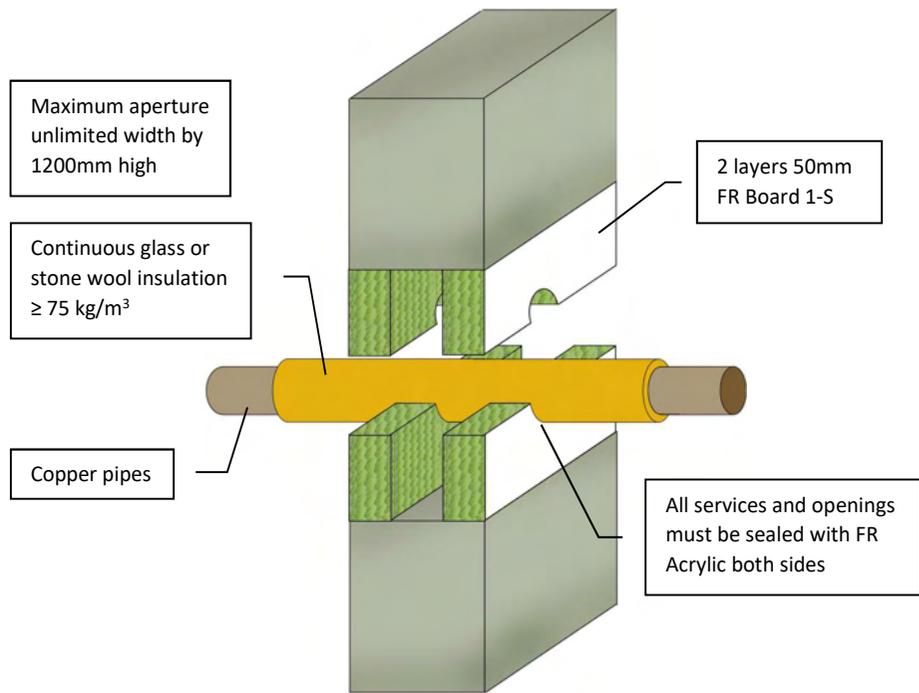
Sound reduction (seal only) 52 dB

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Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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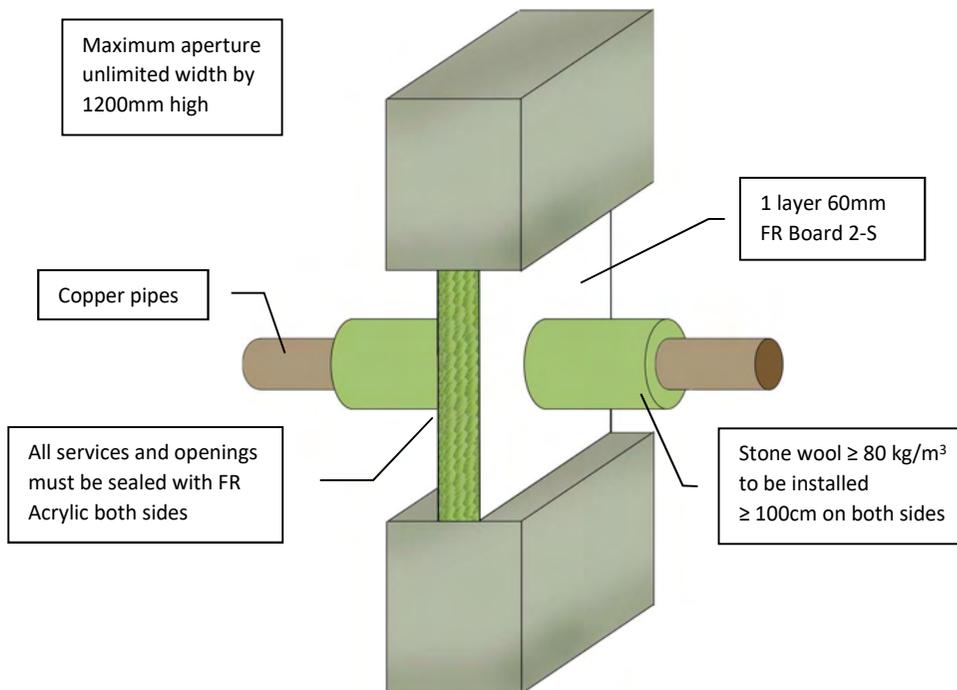
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated copper pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Copper pipes $\leq \text{Ø}15\text{mm}$ with 20mm continuous mineral fibre insulation EI 60 C/C & E 60	
Copper pipes $\leq \text{Ø}54\text{mm}$ with 40mm continuous mineral fibre insulation EI 60 C/C & E 60	
Sound reduction (seal only) 52 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:	Drawn date & no:
A4	21/3/21
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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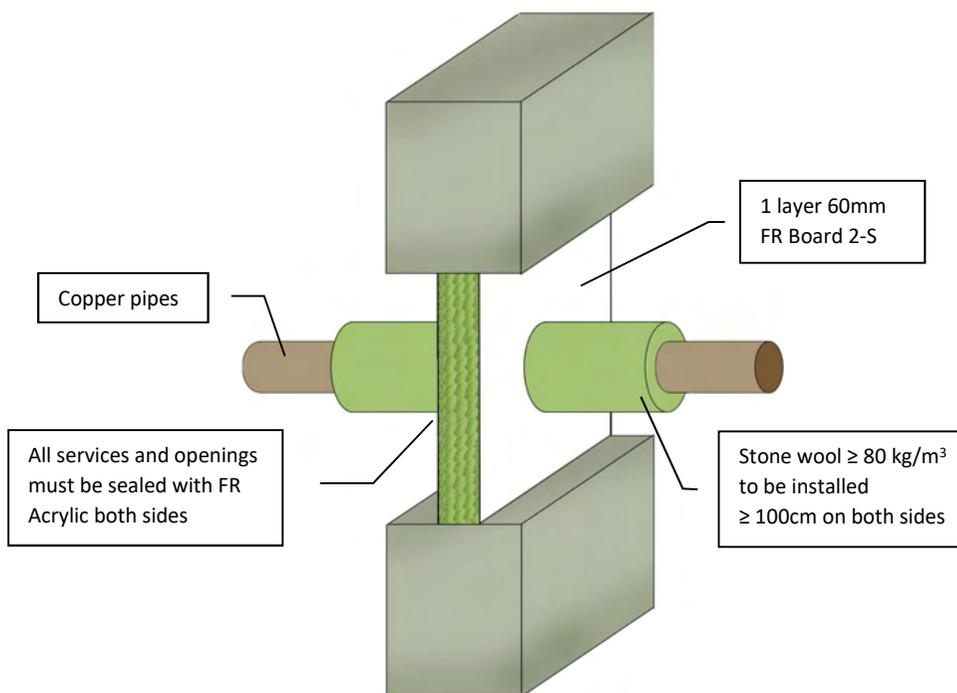
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated copper pipes in rigid walls
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Copper pipes $\leq \text{Ø}54\text{mm}$ with $\geq 20\text{mm}$ stone wool insulation	
EI 90 C/U & E 120	
Sound reduction (seal only)	
29 dB	
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Sheet size:	Drawn date & no:
A4	7/3/21
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



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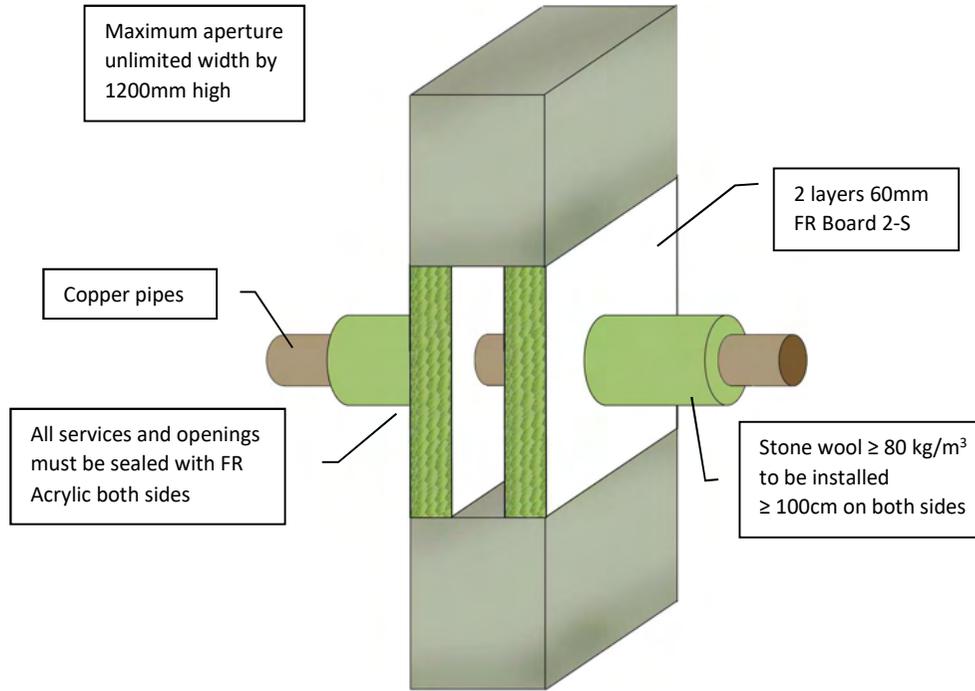
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated copper pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Copper pipes $\leq \varnothing 12\text{mm}$ with $\geq 20\text{mm}$ stone wool insulation in maximum aperture 70mm wide and 70mm high EI 240 C/U & E 240	
Copper pipes $\leq \varnothing 54\text{mm}$ with $\geq 20\text{mm}$ stone wool insulation in maximum aperture 115mm wide and 115mm high EI 120 C/U & E 240	
Copper pipes $\leq \varnothing 54\text{mm}$ with $\geq 20\text{mm}$ stone wool insulation in maximum aperture unlimited width by 1200mm high EI 90 C/U & E 240	
Sound reduction (seal only)	29 dB
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	20/4/15
Scale:	Drawn by:
NTS	K.B

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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated 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 pipes ≤ Ø54mm with ≥ 20mm stone wool insulation
 EI 120 C/U & E 240
 Sound reduction (seal only) 52 dB

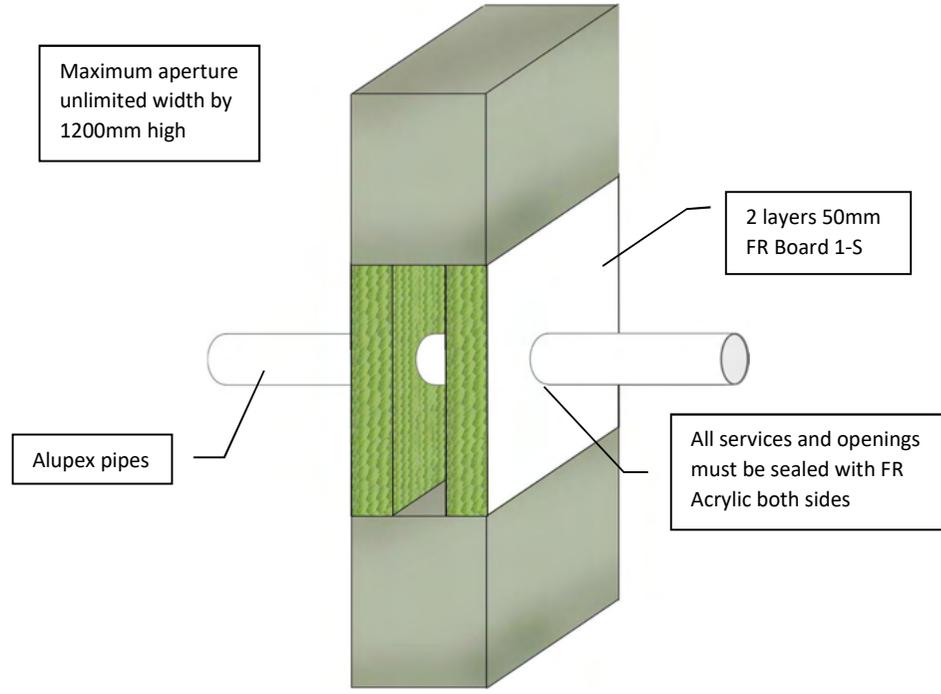
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Scale: **NTS** Drawn by: K.B

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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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Signed and approved:

Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire stopping of un-insulated alupex pipes in rigid walls

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

Fire & Sound classification

Alupex pipes $\leq \varnothing 20\text{mm}$	EI 120 C/C & E 120
Alupex pipes $\leq \varnothing 75\text{mm}$	EI 20 C/C & E 120
Sound reduction (seal only)	52 dB

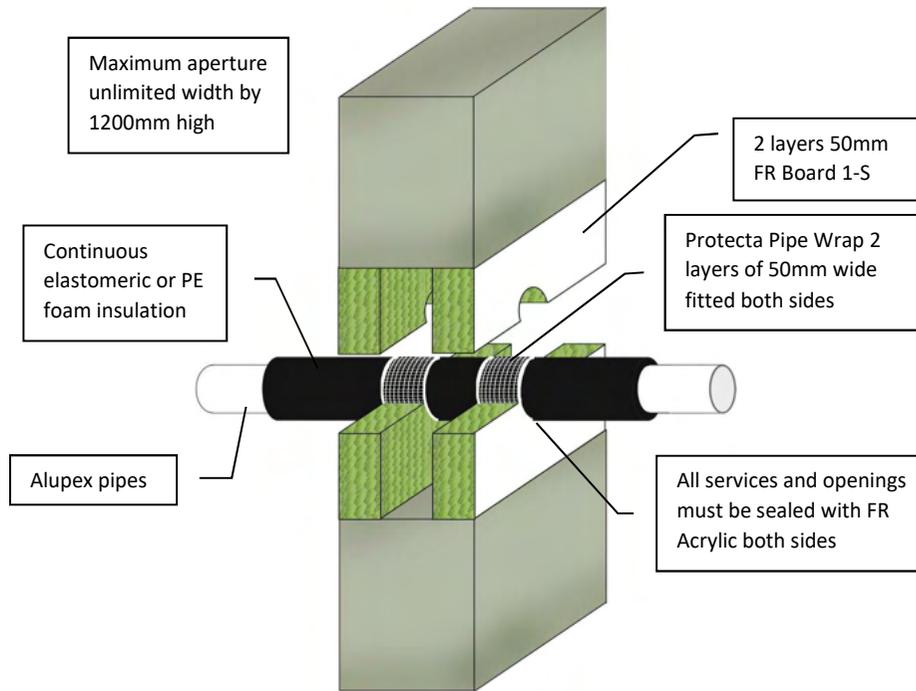
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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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 Board
 Protecta FR Acrylic
 Protecta FR Pipe Wrap 25m

Application Fire stopping of insulated alupex pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

Fire & Sound classification
 Alupex pipes ≤ Ø75mm with 9 - 25mm continuous foam insulation
 EI 120 C/C & E 120
 Sound reduction (seal only) 52 dB

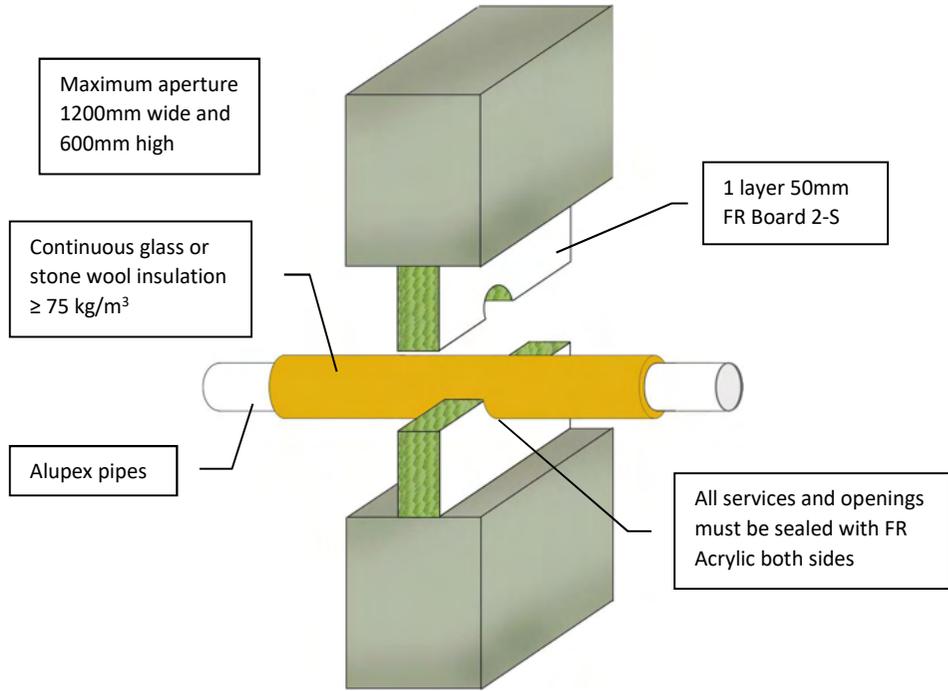
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 Tel: +44 (0) 148 4421036
 Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: 5/3/19

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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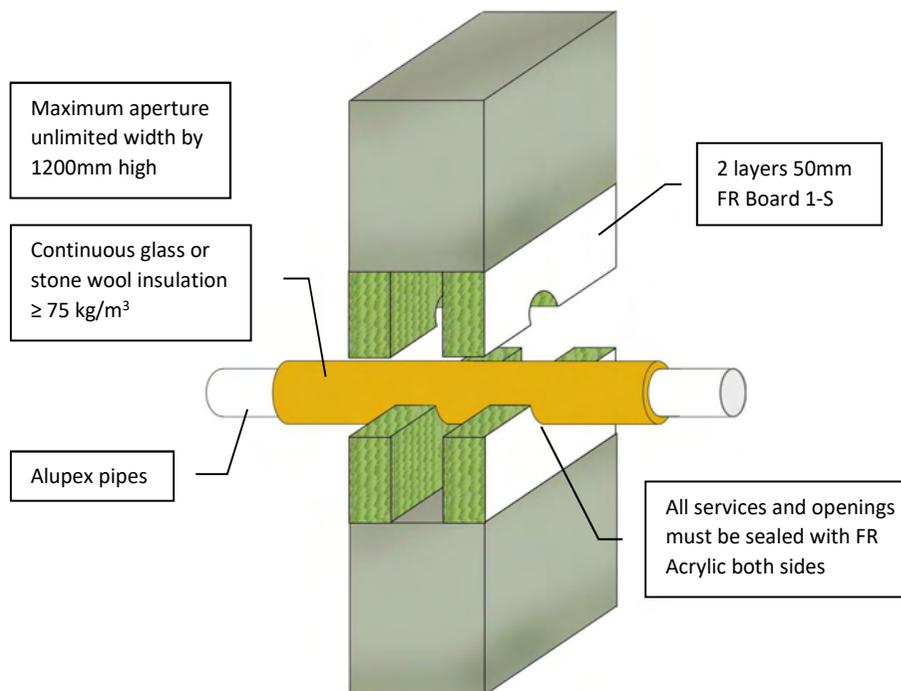
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated alupex pipes in rigid walls
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Alupex pipes $\leq \varnothing 75\text{mm}$ with 25mm continuous insulation	
EI 60 C/C & E 60	
Sound reduction (seal only)	
29 dB	
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Sheet size:	Drawn date & no:
A4	7/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated alupex pipes in rigid walls

Construction Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

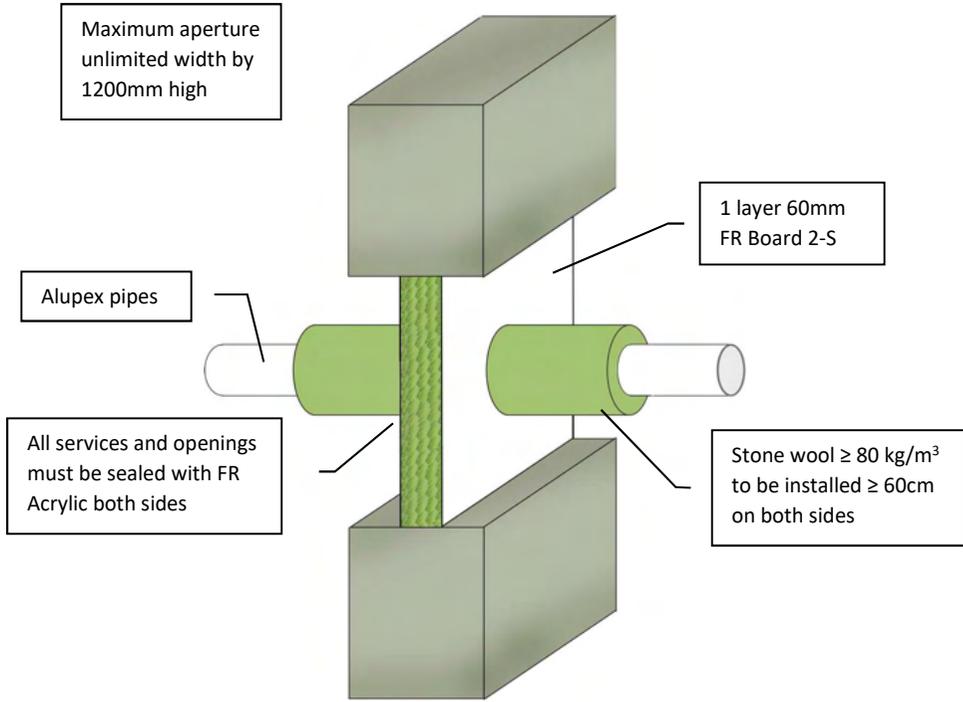
Fire & Sound classification
 Alupex pipes $\leq \varnothing 75\text{mm}$ with 25 - 60mm continuous mineral fibre insulation
 EI 90 C/C & E 120
 Sound reduction (seal only) 52 dB

Sheet size: **A4** Drawn date & no: 21/3/21

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

Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

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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 Board
Protecta FR Acrylic

Application Fire stopping of insulated alupex pipes in rigid walls

Construction Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification
 Alupex pipes $\leq \varnothing 75\text{mm}$ with $\geq 30\text{mm}$ stone wool insulation
 EI 90 C/C & E 120
 Sound reduction (seal only) 29 dB

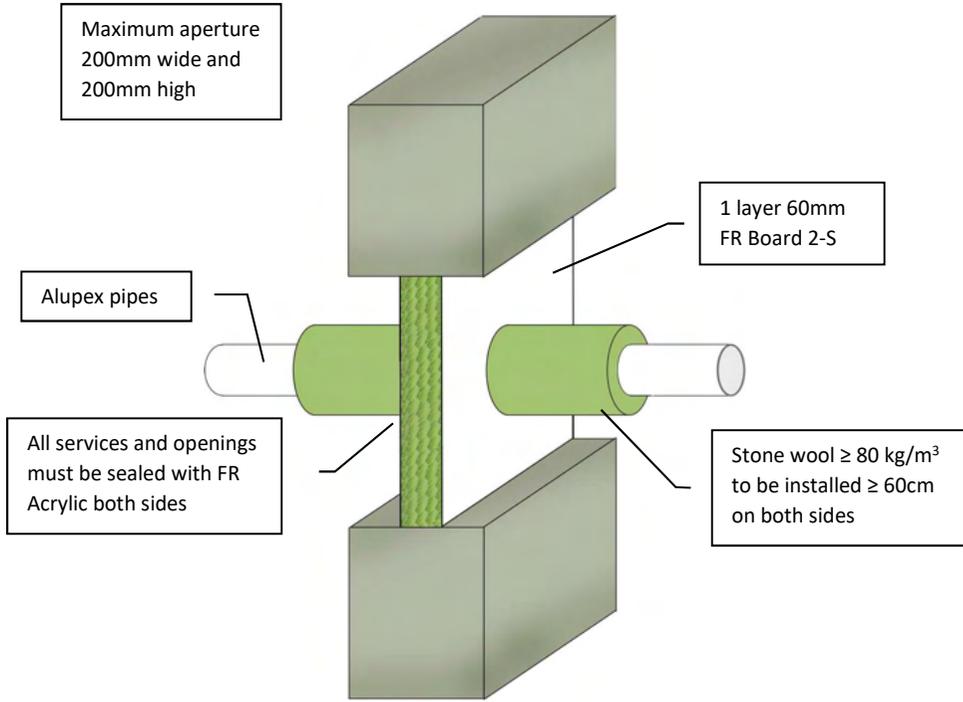
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 Huddersfield, West Yorkshire, HD1 6SB
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Sheet size: **A4** Drawn date & no: 7/3/21

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

Installation Instructions

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2. Protecta® FR Coating and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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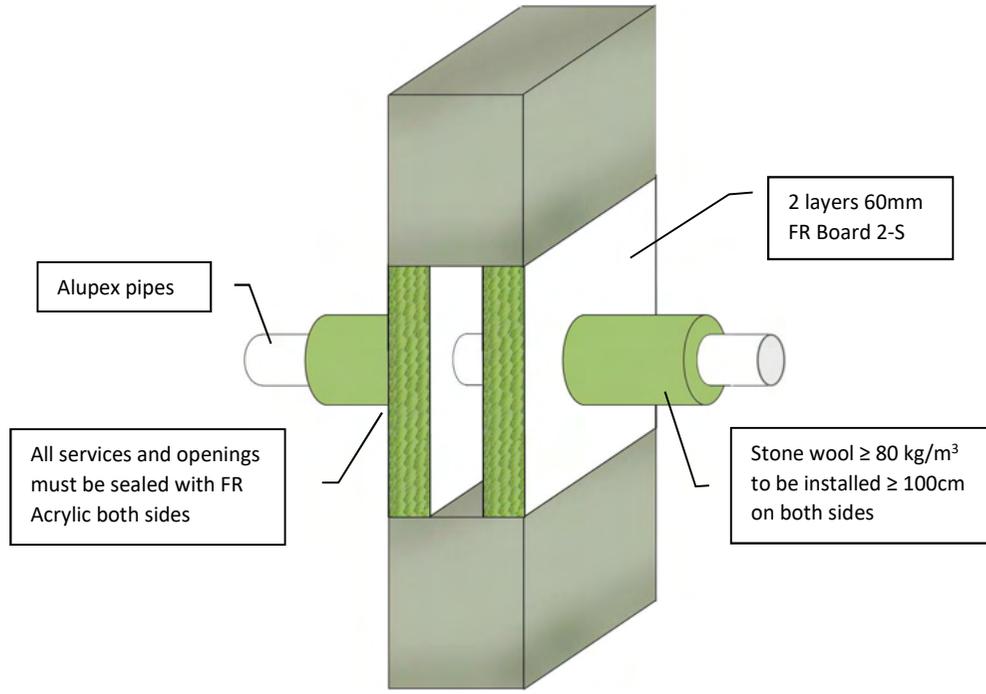
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated alupex pipes in rigid walls
Construction	Minimum wall thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
Alupex pipes $\varnothing 75\text{mm}$ with $\geq 30\text{mm}$ stone wool insulation	
EI 120 C/C & E 120	
Sound reduction (seal only)	
29 dB	
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Sheet size:	Drawn date & no:
A4	7/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



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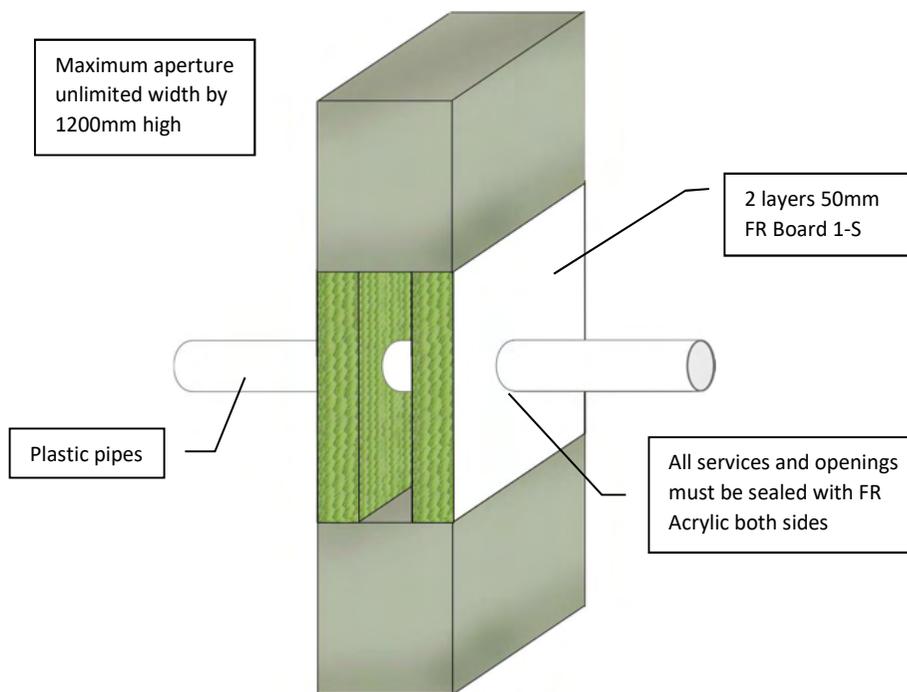
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic
Application	Fire stopping of insulated 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 pipes ≤ Ø16mm with ≥ 20mm insulation in maximum aperture 1200mm wide and 1200mm high EI 240 U/C & E 240	
Alupex pipes ≤ Ø16mm with ≥ 20mm insulation in maximum aperture unlimited width by 1200mm high EI 180 U/C & E 240	
Alupex pipes ≤ Ø75mm with ≥ 30mm insulation in maximum aperture unlimited width by 1200mm high EI 120 C/C & E 120	
Sound reduction (seal only)	52 dB
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	7/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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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 Board 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 $\geq 650 \text{ kg/m}^3$

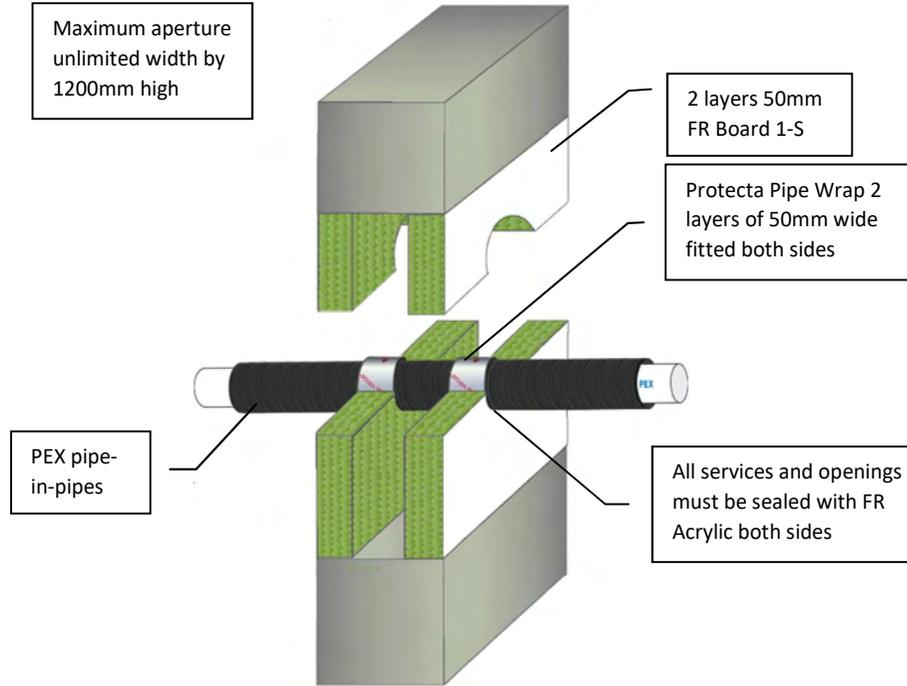
Fire & Sound classification	
PEX pipe-in-pipe $\leq \varnothing 25\text{mm}$	EI 90 C/C & E 90
PVC-U and PVC-C pipes $\leq \varnothing 32\text{mm}$ with wall thickness 1.0 - 2.4mm	EI 60 U/C & E 60
PE, ABS and SAN+PVC pipes $\leq \varnothing 32\text{mm}$ with wall thickness 2.0 - 3.0mm	EI 60 U/C & E 60
PP pipes $\leq \varnothing 32\text{mm}$ with wall thickness 1.8 - 2.2mm	EI 60 U/C & E 120
Sound reduction (seal only)	52 dB

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Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
Application	Fire stopping of PEX pipe-in-pipes in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Fire & Sound classification	
PEX pipe-in-pipes $\leq \text{Ø}54\text{mm}$	EI 120 C/C & E 120
PEX pipe-in-pipes $\leq \text{Ø}25\text{mm}$ in bundles $\leq \text{Ø}50\text{mm}$	EI 90 C/C & E 90
Sound reduction (seal only)	52 dB

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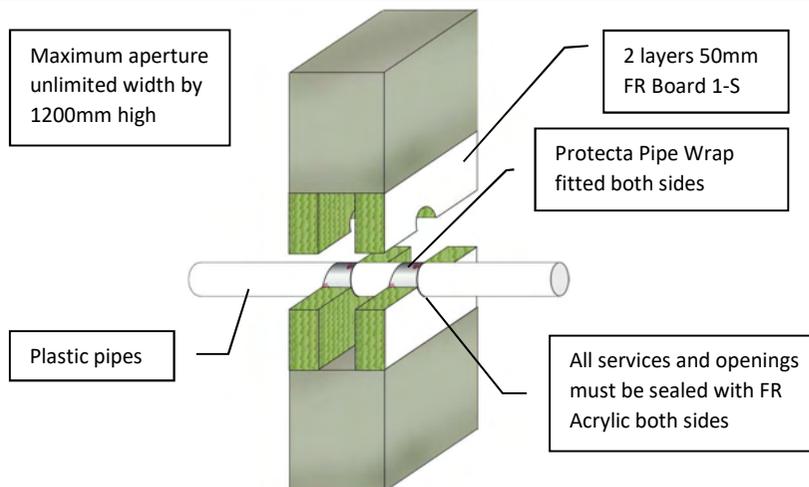
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

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NTS	K.B

Installation Instructions

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2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.



ETA 21/0047

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Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	4.2 – 10.0mm	50 x 3.6mm (2 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 110mm PP	2.7 – 15.1mm	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 125mm PVC-U & PVC-C	3.7 – 7.4mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	4.8 – 12.0mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 125mm PP	3.1 – 17.1mm	50 x 5.4mm (3 layers)	EI 90 U/C (E 120 U/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 90 U/C)
≤ Ø 160mm PP	4.9 – 21.9mm	50 x 10.8mm (6 layers)	EI 60 U/C (E 60 U/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 200mm PP	4.9 – 18.2mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 – 12.1mm	50 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	18.7mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 315mm PP	28.6mm	50 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 – 15.3mm	50 x 28.8mm (16 layers)	EI 90 C/C (E 90 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	23.7mm	50 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

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 ≥ 650 kg/m³

Fire & Sound classification

For fire classifications please see the table on the left.

Sound reduction (seal only)

52 dB



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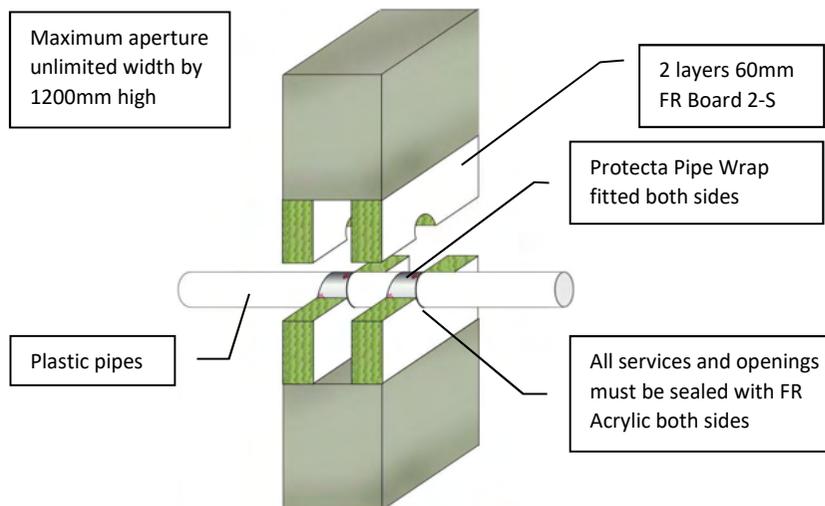
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: **23/3/21**

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Services	Pipe Wall Thickness	FR Pipe Wrap	Classification
≤ Ø 40mm PVC-U & PVC-C	1.9 – 3.0mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 40mm PE, ABS & SAN+PVC	2.4 – 4.6mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PVC-U & PVC-C	2.7 – 6.6mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 110mm PP	2.7 – 10.0mm	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 125mm PVC-U & PVC-C	4.7 – 7.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 125mm PE, ABS & SAN+PVC	3.9 – 7.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 125mm PP	3.1 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 160mm PVC-U & PVC-C	4.0 – 9.5mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 160mm PE, ABS & SAN+PVC	4.9 – 9.5mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 200mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 200mm PE, ABS & SAN+PVC	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 200mm PP	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 180 C/C (E 180 C/C)
≤ Ø 315mm PVC-U & PVC-C	7.7 – 12.1mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 315mm PE, ABS & SAN+PVC	28.6mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 180 C/C)
≤ Ø 400mm PVC-U & PVC-C	9.8 – 15.3mm	75 x 28.8mm (16 layers)	EI 120 C/C (E 120 C/C)
≤ Ø 400mm PE, ABS & SAN+PVC	36.3mm	75 x 28.8mm (16 layers)	EI 120 C/C (E 120 C/C)

Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

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

For fire classifications please see the table on the left.

Sound reduction (seal only)

52 dB



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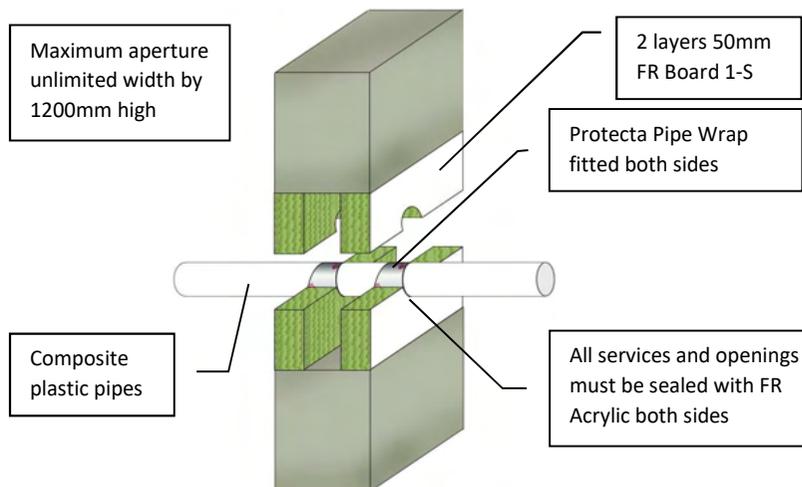
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Sheet size: **A4**
Drawn date & no: 21/3/21

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

Installation Instructions

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2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Services	FR Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 90 C/C (E 120 C/C)
≤ Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 90 C/C (E 120 C/C)
≤ Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 90 C/U (E 90 C/U)
≤ Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
≤ Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 50mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 90 U/U)
≤ Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 90 U/C (E 90 U/C)
≤ Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 90 U/U (E 120 U/U)
≤ Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 60 U/C (E 120 U/C)

Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30 mm from other services in the aperture. The total amount of cross sections of services should not exceed 60% of the penetration area.



ETA 21/0047

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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 Board
Protecta FR Acrylic
Protecta FR Pipe Wrap 25m

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 ≥ 650 kg/m³

Fire & Sound classification

For fire classifications please see the table on the left.

Sound reduction (seal only) 52 dB



Protecta®

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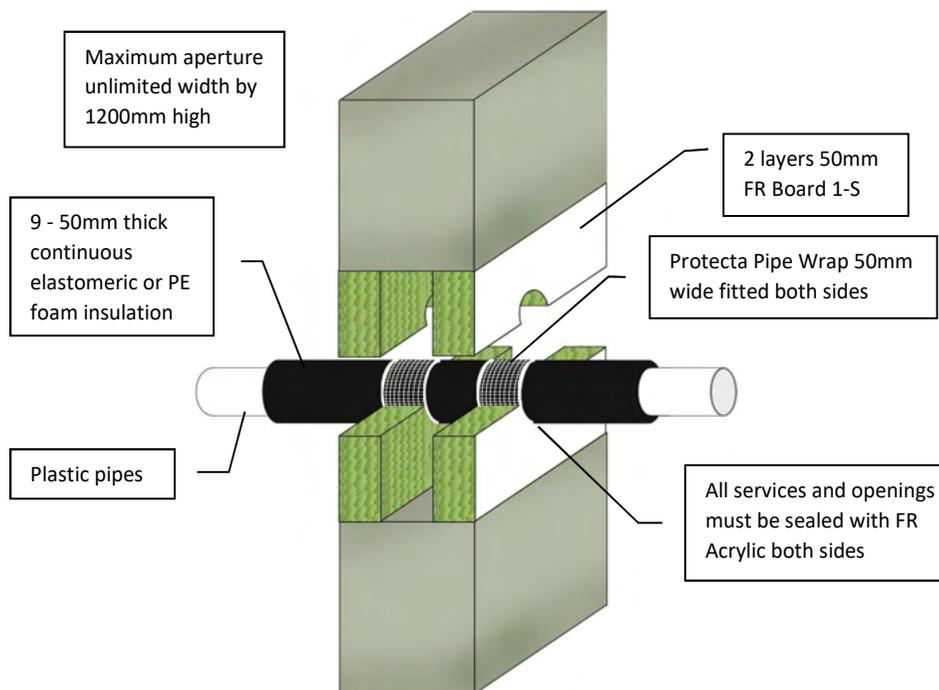
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Installation Instructions

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2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
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5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap 25m
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 $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, $\leq \text{Ø}68\text{mm}$ incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, $\leq \text{Ø}178\text{mm}$ incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PE pipes $\leq \text{Ø}160\text{mm}$ with wall thickness 3.0 - 9.5mm, and $\leq \text{Ø}260\text{mm}$ incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, $\leq \text{Ø}68\text{mm}$ incl. insulation with 2 layers of pipe wrap EI 60 C/C & E 60	
PP pipes with wall thickness 1.8 - 14.6mm, $\leq \text{Ø}178\text{mm}$ incl. insulation with 6 layers of pipe wrap EI 60 C/C & E 60	
PP pipes $\leq \text{Ø}160\text{mm}$ with wall thickness 1.8 - 14.6mm, and $\leq \text{Ø}260\text{mm}$ incl. insulation with 10 layers of pipe wrap EI 60 C/C & E 60	
Sound reduction (seal only)	52 dB
Polyseam Ltd, 15 St Andrews Road, Huddersfield, West Yorkshire, HD1 6SB	
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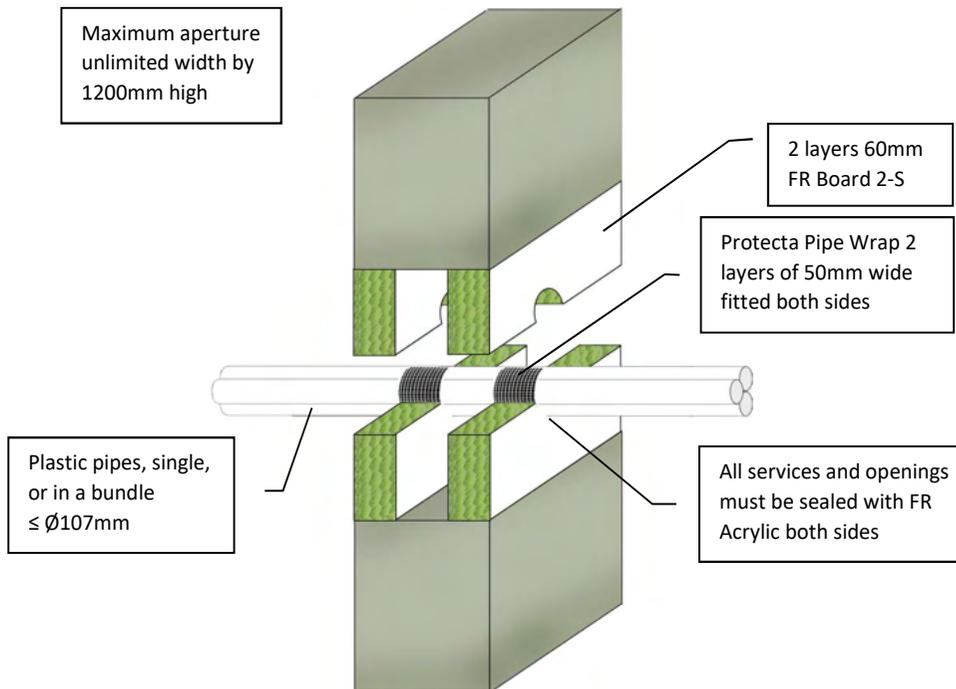
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Signed and approved:

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
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4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

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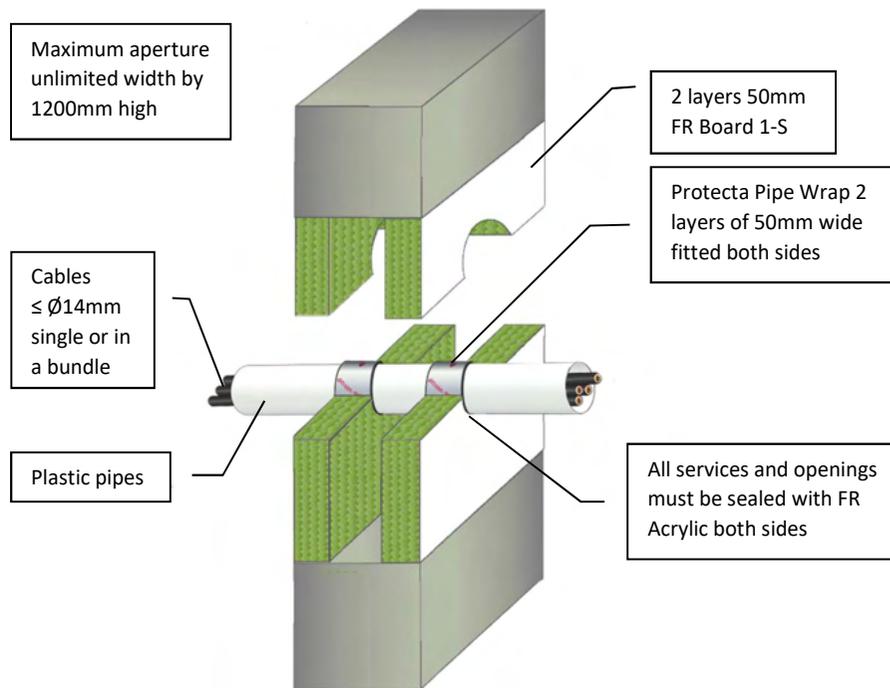
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
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 $\geq 650 \text{ kg/m}^3$
Fire & Sound classification	
PVC-U & PVC-C pipe $\leq \varnothing 32\text{mm}$ with wall thickness 1.0 - 2.4mm	
PE, ABS & SAN+PVC pipes $\leq \varnothing 32\text{mm}$ with wall thickness 2.0 - 4.4mm	
PP pipes $\leq \varnothing 32\text{mm}$ with wall thickness 1.8 - 4.4mm	
Above pipes combined	EI 240 U/C & E 240
Sound reduction (seal only)	52 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:	Drawn date & no:
A4	7/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



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



ETA 21/0047

Client:

Job Title:

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
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 ≥ 650 kg/m ³

Fire & Sound classification	
Conduits of PVC-U & PVC-C pipes ≤ Ø110mm with wall thickness 2.7-6.6mm	EI 90 U/C & E 120
Conduits of PE, ABS & SAN+PVC pipes ≤ Ø110mm with wall thickness 4.2-10.0mm	EI 90 U/C & E 120
Conduits of PP pipes ≤ Ø110mm with wall thickness 2.7-15.1mm	EI 90 U/C & E 120
Sound reduction (seal only)	52 dB



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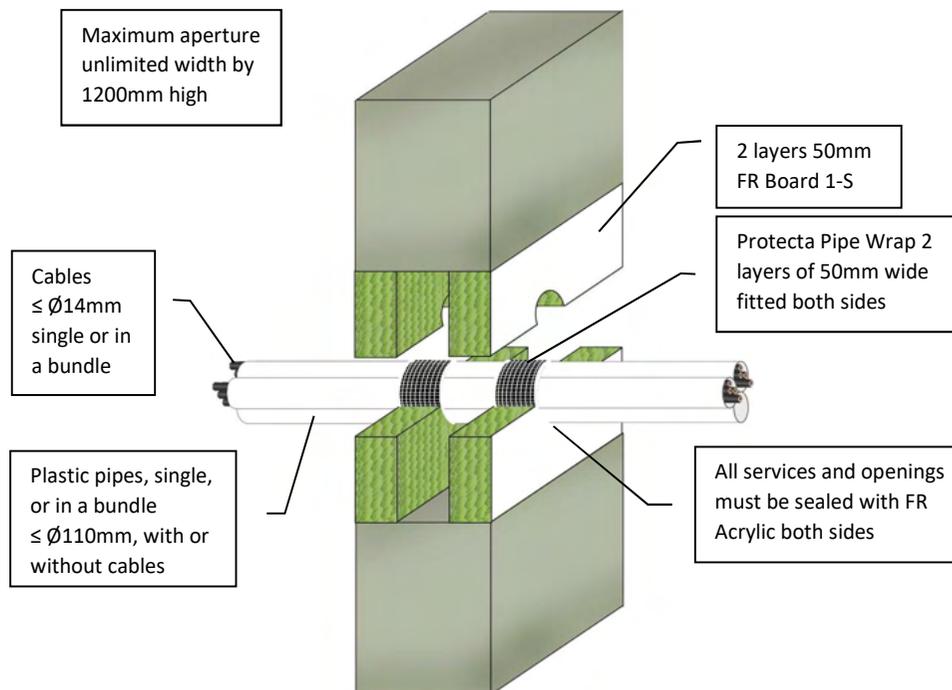
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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A4	5/3/19
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The boards should be flush with the surface of the construction on both sides to maximize the fire resistance.
3. Cut the required board(s) to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
4. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



ETA 21/0047

Client:

Job Title:

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

Fire & Sound classification	
PVC-U & PVC-C pipe ≤ Ø32mm with wall thickness 1.5 - 2.4mm	
PE, ABS & SAN+PVC pipes ≤ Ø40mm with wall thickness 2.0 - 3.7mm	
PP pipes ≤ Ø40mm with wall thickness 1.8 - 2.0mm	
Above pipes combined	EI 90 U/C & E 90
Sound reduction (seal only)	52 dB

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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

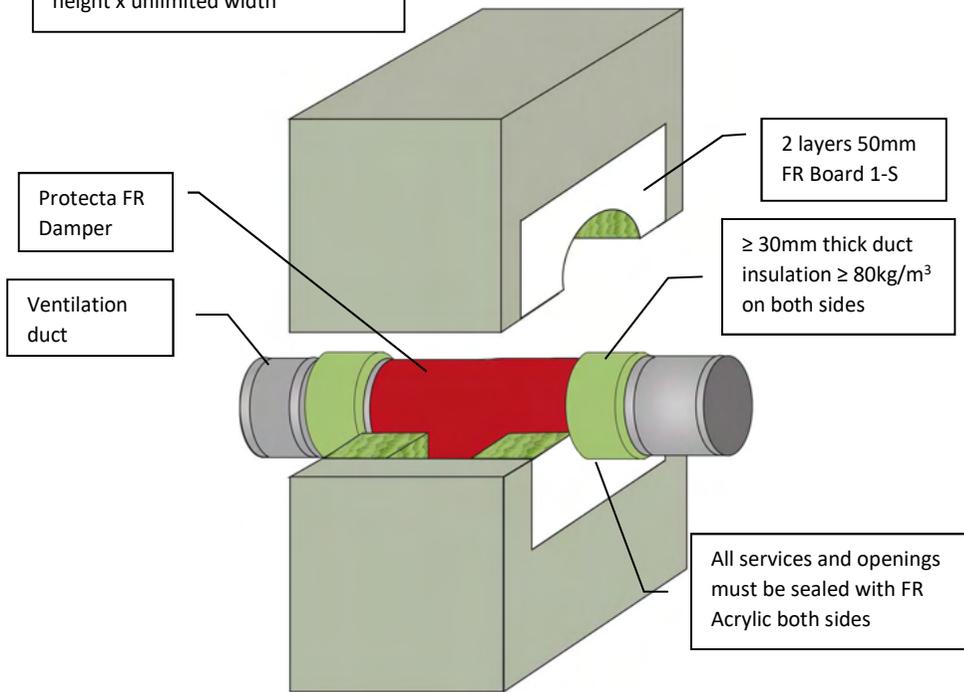
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing the fire seal 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. The dampers can be fitted in the apertures either by connecting them to the ventilation ducts before the fire seal is started, or fixed in the apertures with the fire seal, and connected to the ducts afterwards. If the latter, the dampers can be friction fitted with pieces of the boards, or install the boards first and make holes to friction fit the dampers afterwards.
3. The blades inside the damper must be aligned horizontally.
4. The boards should be installed back-to-back and positioned to either side of the construction or anywhere in between.
5. Cut the required boards to suit the aperture dimensions and type and size of service penetration(s). All exposed and cut edges of the board can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Insulate the duct towards the fire seal with a mineral fibre mat, with or without aluminium foil. If the duct is ending in a wall then insulate on one side only.

Maximum aperture 1500mm height x 2400mm width, or 1200mm height x unlimited width



Minimum separations and limitations

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



This product is certified to applicable European (EN) standards and UL-EU Mark service requirements.

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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 Board Protecta FR Acrylic Protecta FR Damper
Application	Fire stopping of ventilation ducts in rigid walls
Construction	Minimum wall thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a density of ≥ 650 kg/m³

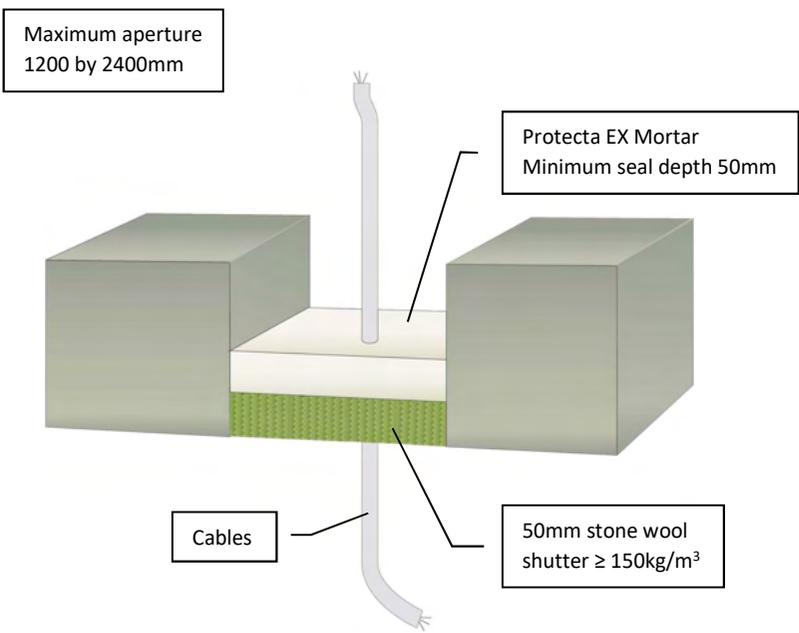
Fire & Sound classification	
≤ Ø 400mm damper/duct with ≥ 200mm stone wool matt on both sides	EI 120 & E 120
≤ Ø 1250mm damper/duct with ≥ 500mm stone wool matt on both sides	EI 60 & E 90
≤ 600mm high x 1000mm wide damper/duct with ≥ 500mm stone wool matt on both sides	EI 120 & E 120
≤ 1200mm high x 1700mm wide damper/duct with ≥ 500mm stone wool matt on both sides	EI 90 & E 90
Sound reduction (seal only)	52 dB

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Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. 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
5. 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
6. 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.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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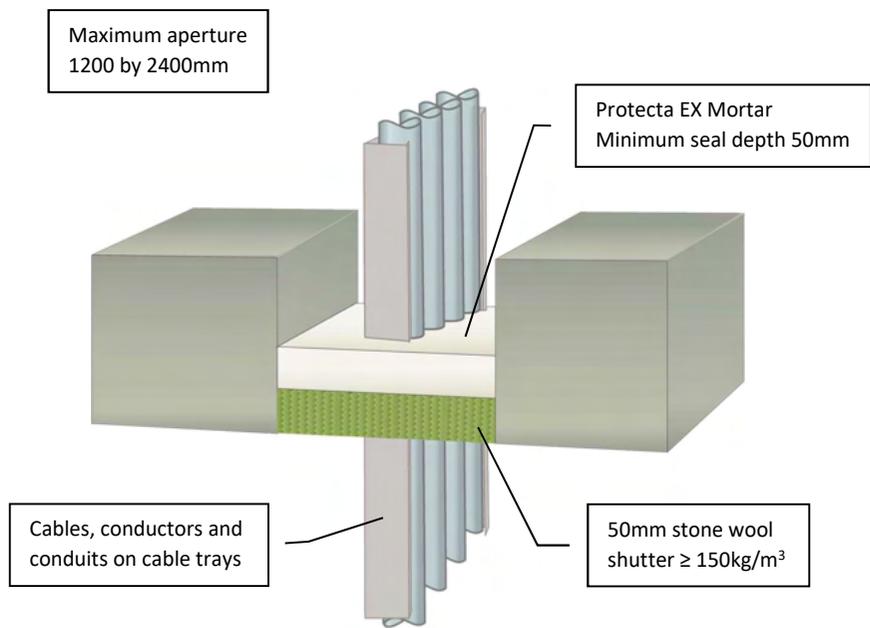
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of cables in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Cables ≤ Ø21mm	EI 90 & E 180
Cables ≤ Ø21mm in tied bundles ≤ Ø100mm	EI 180 & E 180
PVC conduits ≤ Ø16mm	EI 180 C/U & E 180
Sound reduction (seal only)	48dB
	
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Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. 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
6. 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
7. 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.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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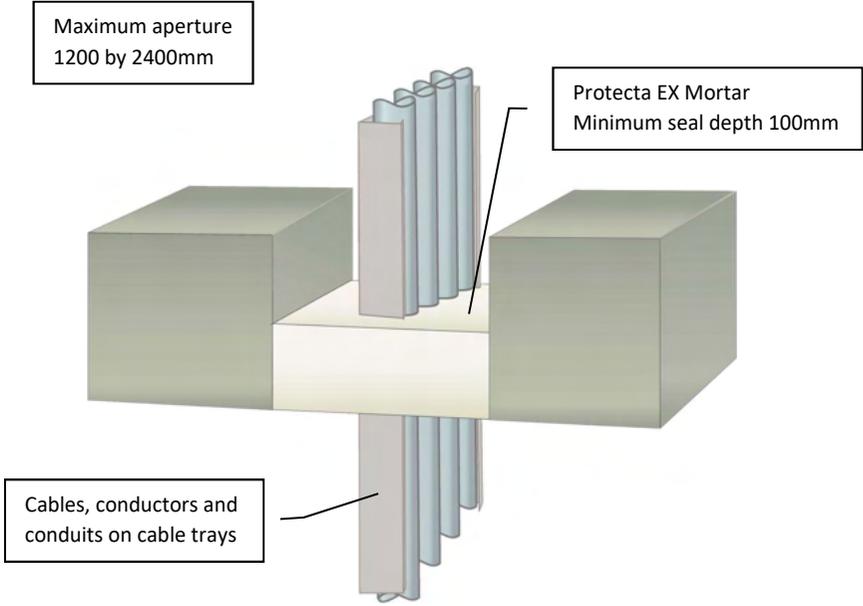
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of cables, conductors and conduits on cable trays in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³ .
Fire & Sound classification	
Cables ≤ Ø21mm, single or bundled, non-sheathed conductors ≤ 95mm ² and PVC conduits ≤ Ø16mm, with or without trays EI 60 & E 180	
Cables ≤ Ø80mm, single or bundled, with or without trays EI 45 & E 90	
Sound reduction (seal only) 48dB	
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Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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
7. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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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 EX Mortar
Application	Fire stopping of cables, conductors and conduits on cable trays in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

Fire & Sound classification

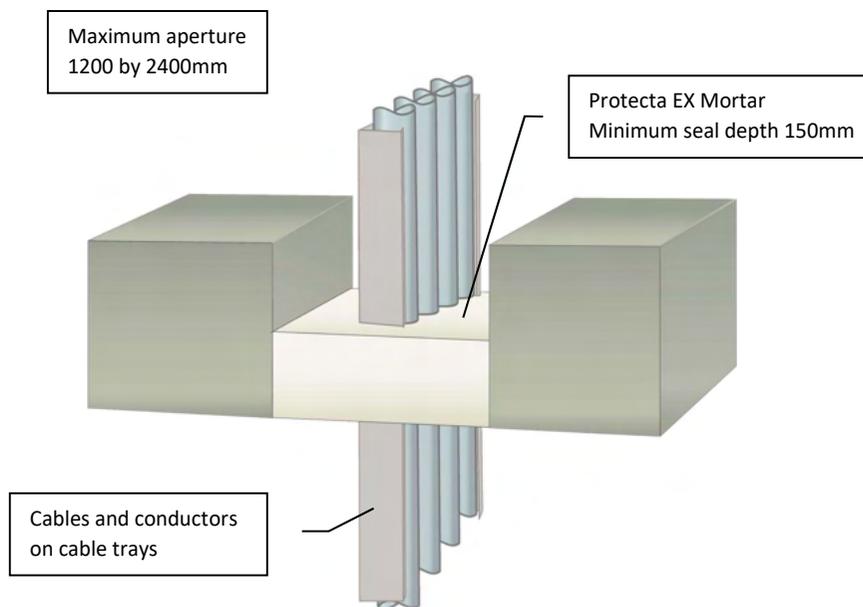
Cables ≤ Ø50mm, single or bundled, non-sheathed conductors ≤ 95mm ² and PVC conduits ≤ Ø16mm, with or without trays	EI 60 & E 180
Cables ≤ Ø80mm, single or bundled, with or without trays	EI 60 & E 120
Sound reduction (seal only)	48dB

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NTS	K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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
7. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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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 EX Mortar
Application	Fire stopping of cables and conductors on cable trays 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

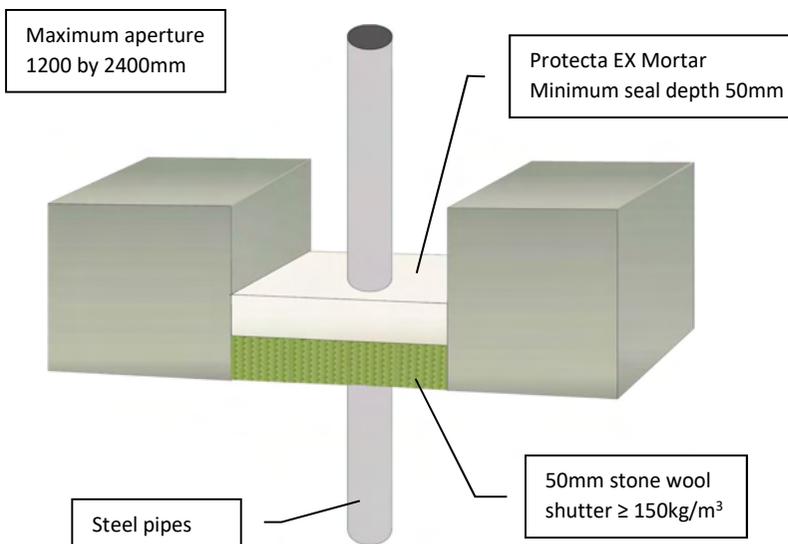
Cables ≤ Ø21mm, single or bundled, with or without trays ≤ 500mm wide	EI 120 & E 240
Cables ≤ Ø50mm, single or bundled, with or without trays ≤ 500mm wide	EI 90 & E 240
Non-sheathed conductors ≤ 185mm ² , with or without trays ≤ 500mm wide	EI 120 & E 120
Sound reduction (seal only)	48dB

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Scale: NTS	Drawn by: K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal pipes passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. 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.
6. 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
7. 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.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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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 EX Mortar Stone wool shutter
Application	Fire stopping of un-insulated steel pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

Fire & Sound classification

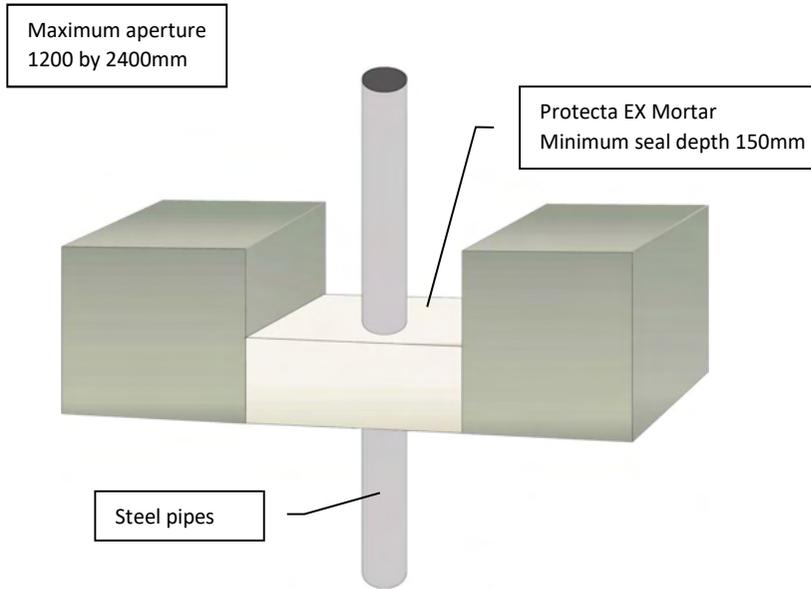
Steel pipes ≤ Ø16mm	EI 180 C/U & E 180
Steel pipes ≤ Ø324mm	EI 20 C/U & E 180
Sound reduction (seal only)	48dB

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Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal pipes passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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
7. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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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 EX Mortar
Application	Fire stopping of un-insulated 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

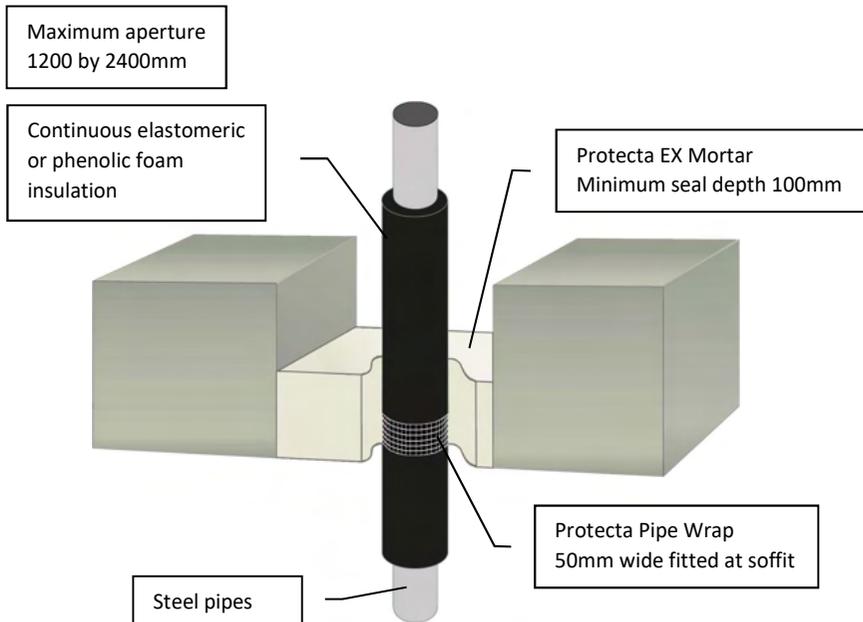
Fire & Sound classification	
Steel pipes ≤ Ø16mm	EI 180 C/U & E 180
Steel pipes ≤ Ø63.5mm	EI 90 C/U & E 180
Steel pipes ≤ Ø324mm	EI 20 C/U & E 180
Sound reduction (seal only)	48dB

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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

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Loadbearing Properties
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ETA 21/0071

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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 EX Mortar
 Protecta FR Pipe Wrap 25m
Application Fire stopping of insulated steel pipes in rigid floors
Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

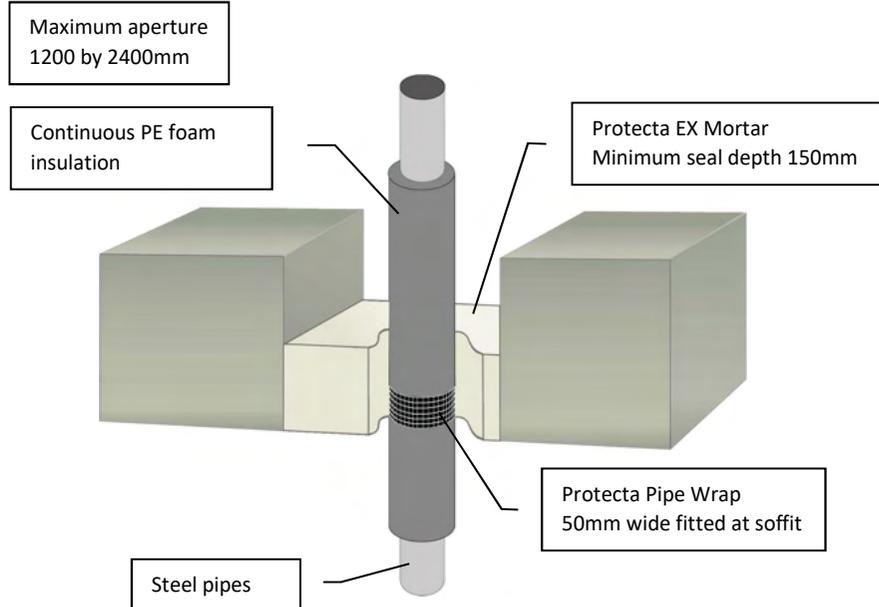
Steel pipes ≤ Ø12mm with 9mm insulation and 2 layers of pipe wrap	EI 240 C/C & E 240
Steel pipes ≤ Ø40mm with 13mm insulation and 1 layer of pipe wrap	EI 180 C/U & E 180
Steel pipes ≤ Ø40mm with 25mm insulation and 2 layers of pipe wrap	EI 240 C/U & E 240
Steel pipes ≤ Ø165mm with 13 - 19mm insulation & 1 layer of pipe wrap	EI 120 C/U & E 180
Steel pipes ≤ Ø324mm with 25mm insulation and 2 layers of pipe wrap	EI 120 C/U & E 240
Steel pipes ≤ Ø324mm with 26 - 50mm insulation & 3 layers of pipe wrap	EI 120 C/U & E 120
Sound reduction (seal only)	48dB


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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Scale: NTS	Drawn by: K.B

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6. 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.



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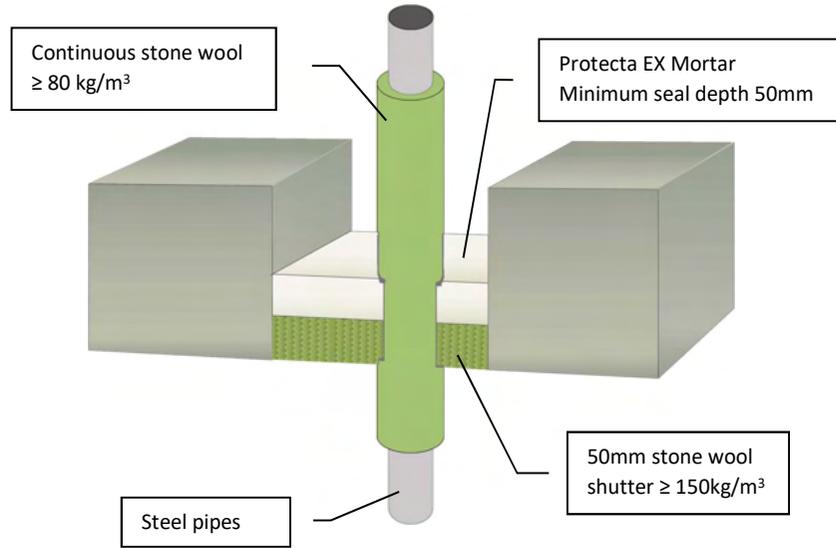
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated 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 pipes ≤ Ø12mm with 9mm foam insulation and 1 layer of pipe wrap	EI 180 C/U & E 180
Steel pipes ≤ Ø76mm with 9mm foam insulation and 1 layer of pipe wrap	EI 60 C/U & E 180
Steel pipes ≤ Ø76mm with 10 - 30mm foam insulation and 2 layers of pipe wrap	EI 60 C/U & E 180
Sound reduction (seal only)	48dB
 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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A4	27/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

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4. 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
5. 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
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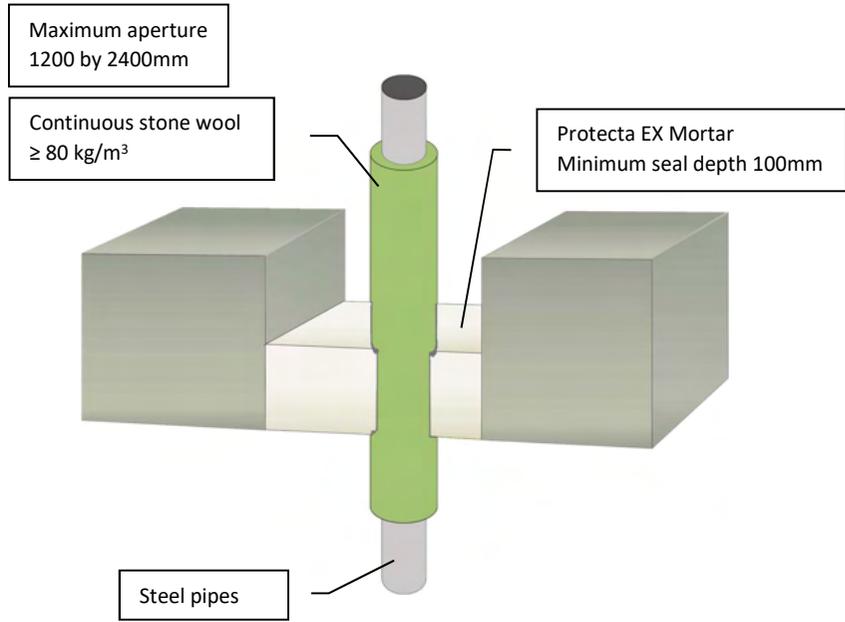
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of insulated steel pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Steel pipes ≤ Ø324mm with 20-80mm thick stone wool insulation in maximum apertures 1200 x 2400mm EI 180 C/U & E 180	
Steel pipes ≤ Ø324mm with 20-80mm thick stone wool insulation in maximum apertures 550 x 1100mm EI 240 C/U & E 240	
Sound reduction (seal only)	48dB
	
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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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

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Signed and approved:

Client:

Job Title:

Products	Protecta EX Mortar
Application	Fire stopping of insulated steel pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

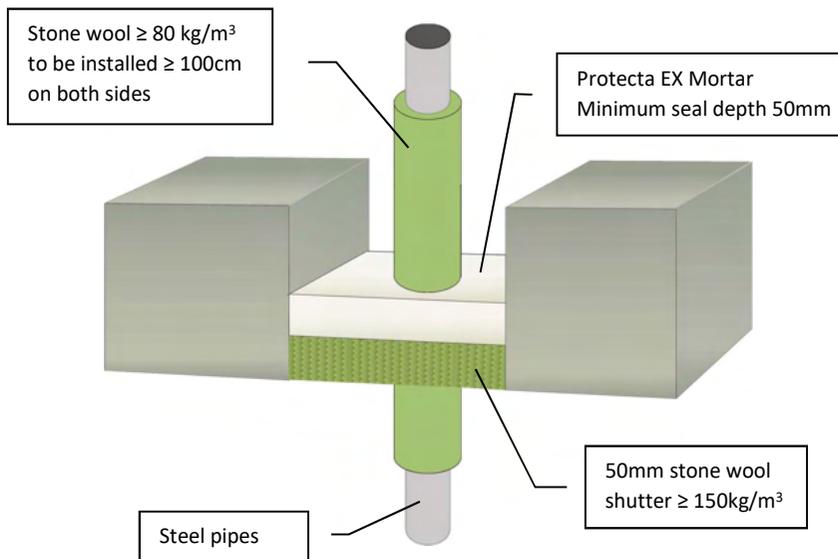
Fire & Sound classification	
Steel pipes ≤ Ø324mm with 20-80mm thick stone wool insulation	EI 240 C/U & E 240
Sound reduction (seal only)	48dB

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Installation Instructions

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Signed and approved:

Client:

Job Title:

Products Protecta EX Mortar
Stone wool shutter
Application Fire stopping of insulated steel pipes in rigid floors
Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

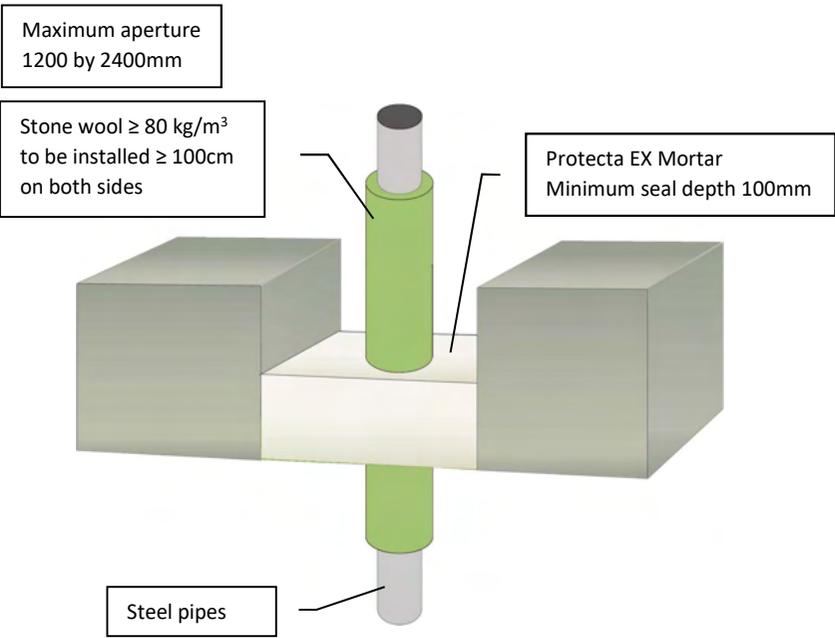
Fire & Sound classification
Steel pipes ≤ Ø40mm with ≥ 20mm insulation in maximum apertures 1200 x 2400mm
EI 180 C/U & E 180
Steel pipes ≤ Ø40mm with ≥ 20mm insulation in maximum apertures 280 x 280mm
EI 240 C/U & E 240
Steel pipes ≤ Ø54mm with ≥ 20mm insulation in maximum apertures 1200 x 2400mm
EI 180 C/C & E 180
Steel pipes ≤ Ø219mm with ≥ 30mm insulation in maximum apertures 1200 x 2400mm
EI 90 C/U & E 180
Steel pipes ≤ Ø219mm with ≥ 30mm insulation in maximum apertures 280 x 280mm
EI 90 C/U & E 240
Sound reduction (seal only) 48dB

Sheet size: **A4** Drawn date & no: 27/3/21

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

Installation Instructions

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ETA 21/0071

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Signed and approved:

Client:

Job Title:

Products	Protecta EX Mortar
Application	Fire stopping of insulated steel pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

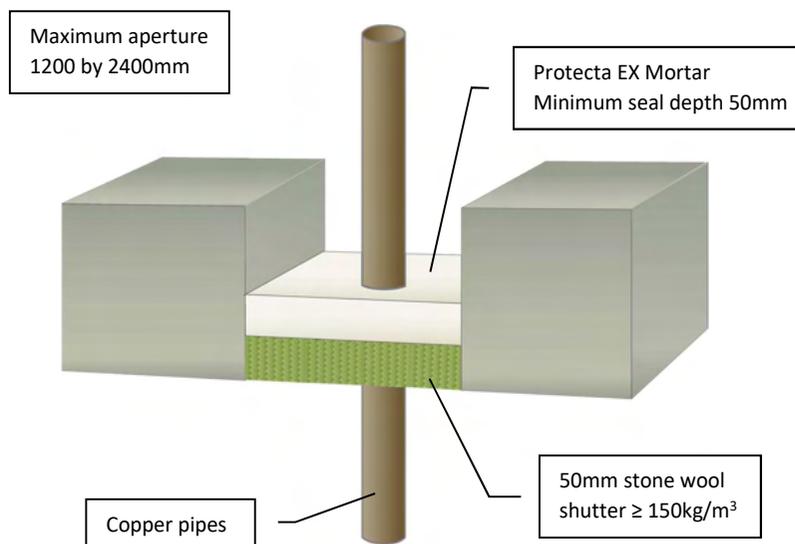
Fire & Sound classification	
Steel pipes ≤ Ø40mm with ≥ 20mm stone wool insulation	EI 240 C/U & E 240
Steel pipes ≤ Ø219mm with ≥ 30mm stone wool insulation	EI 120 C/U & E 240
Sound reduction (seal only)	48dB

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NTS	K.B

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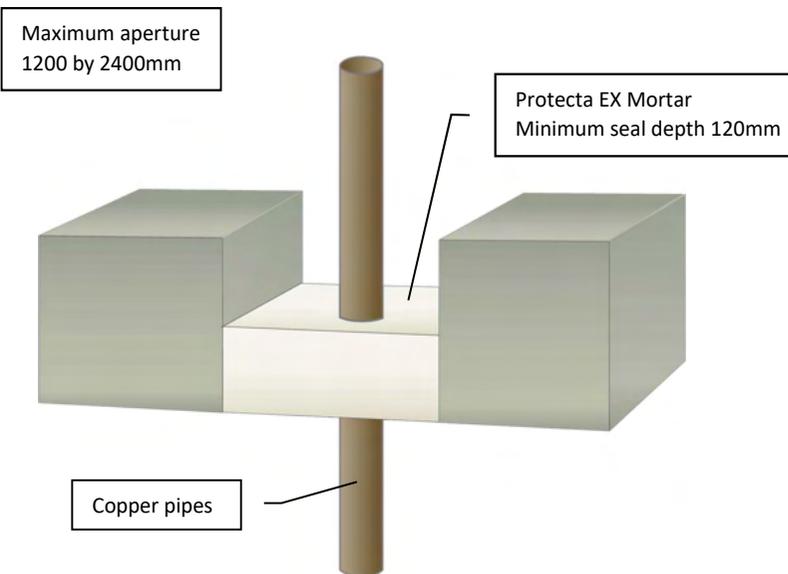
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of un-insulated copper pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Copper pipes ≤ Ø6mm	EI 120 C/C & E 180
Copper pipes ≤ Ø15mm	EI 30 C/C & E 180
Copper pipes ≤ Ø54mm	E 180 C/C
Sound reduction (seal only)	48dB
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 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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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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 EX Mortar
Application	Fire stopping of un-insulated copper pipes in rigid floors
Construction	Minimum floor thickness of 120 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

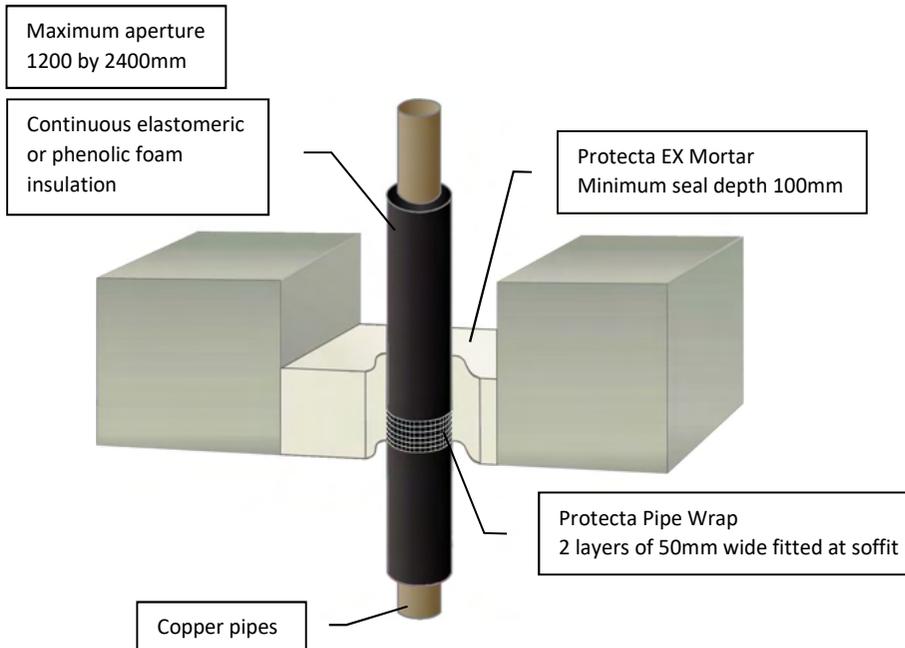
Fire & Sound classification	
Copper pipes ≤ Ø12mm	EI 180 C/C & E 240
Copper pipes ≤ Ø15mm	EI 30 C/C & E 180
Copper pipes ≤ Ø54mm	EI 20 C/C & E 180
Sound reduction (seal only)	48dB

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: 27/3/21
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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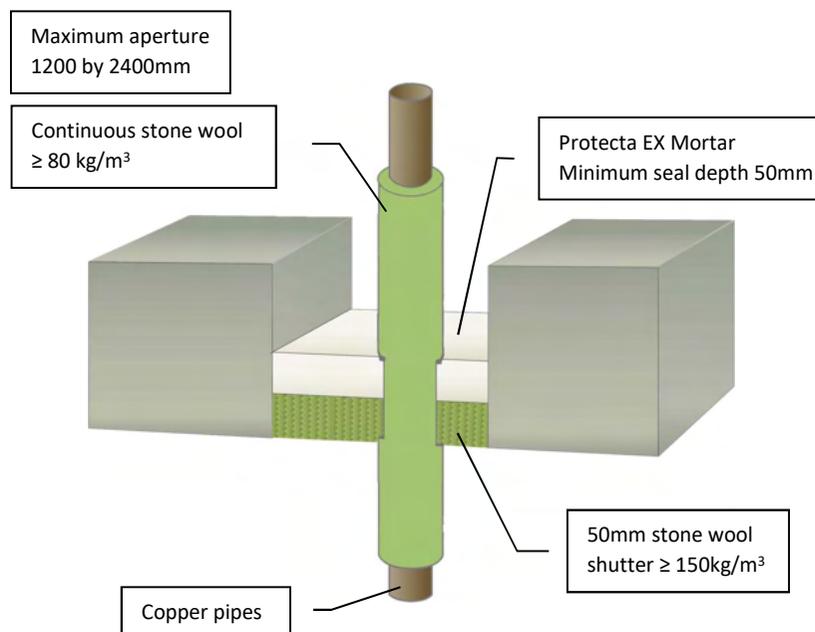
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated copper pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Copper pipes ≤ Ø12mm with 9mm foam insulation	EI 240 C/C & E 240
Copper pipes ≤ Ø54mm with 13 - 25mm foam insulation	EI 60 C/C & E 240
Sound reduction (seal only)	48dB
	
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Scale:	Drawn by:
NTS	K.B

Installation Instructions

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4. 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
5. 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
6. 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.



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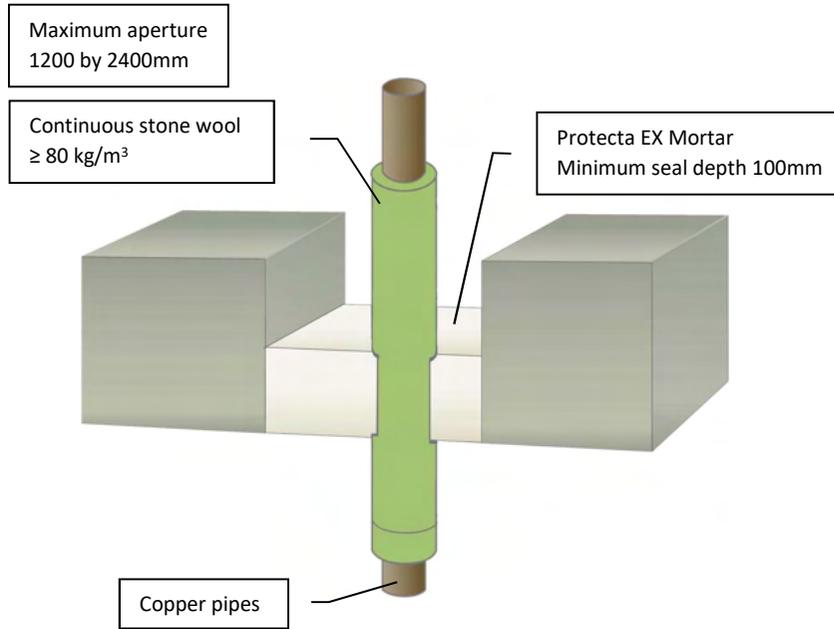
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of insulated copper pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Copper pipes ≤ Ø54mm with 20 - 80mm thick insulation EI 120 C/C & E 180	
Sound reduction (seal only) 48dB	
	
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Loadbearing Properties
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ETA 21/0071

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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 EX Mortar
Application	Fire stopping of insulated copper pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

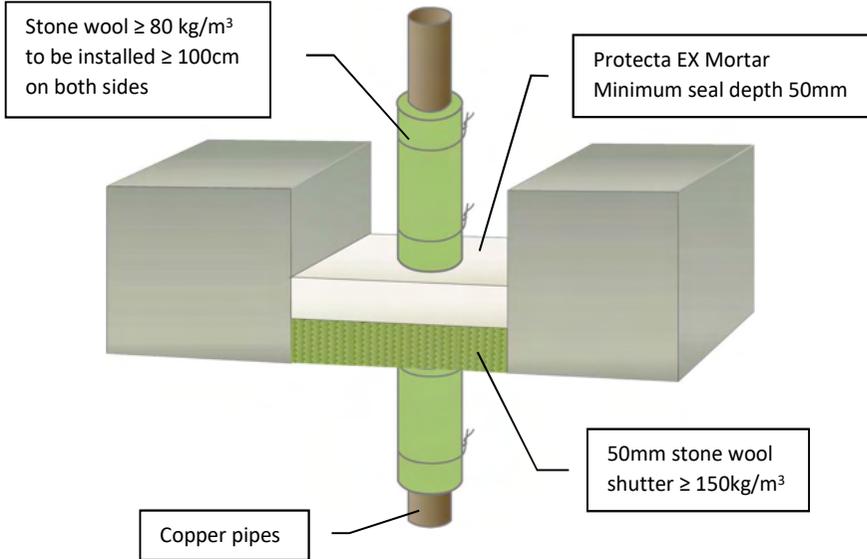
Fire & Sound classification	
Copper pipes ≤ Ø54mm with 20 - 80mm thick insulation	EI 120 C/C & E 180
Sound reduction (seal only)	48dB

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NTS	K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal pipes passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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.
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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 EX Mortar
 Stone wool shutter
Application Fire stopping of insulated copper pipes in rigid floors
Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Copper pipes ≤ Ø12mm with ≥ 20mm insulation in maximum apertures 70 x 70mm
 EI 240 C/C & E 240

Copper pipes ≤ Ø54mm with ≥ 20mm insulation in maximum apertures 1200 x 2400mm
 EI 180 C/C & E 180

Copper pipes ≤ Ø54mm with ≥ 20mm insulation in maximum apertures 115 x 115mm
 EI 180 C/C & E 240

Sound reduction (seal only) 48dB

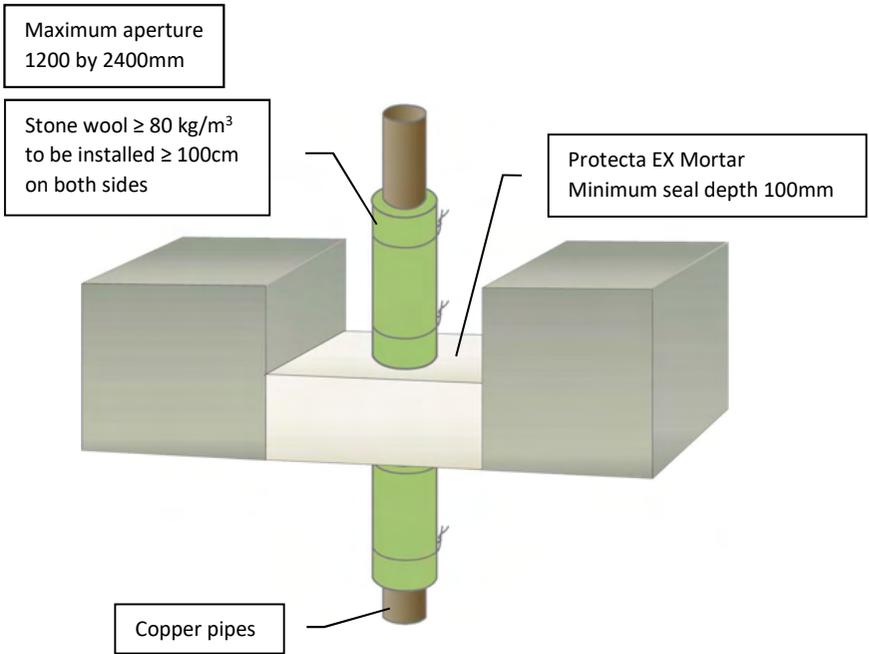
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Scale: **NTS** Drawn by: K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal pipes passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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.
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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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

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ETA 21/0071

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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 EX Mortar
Application Fire stopping of insulated copper pipes in rigid floors
Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification
 Copper pipes ≤ Ø12mm with ≥ 20mm insulation
 EI 240 C/C & E 240
 Copper pipes ≤ Ø54mm with ≥ 20mm insulation
 EI 180 C/C & E 240
 Sound reduction (seal only) 48dB

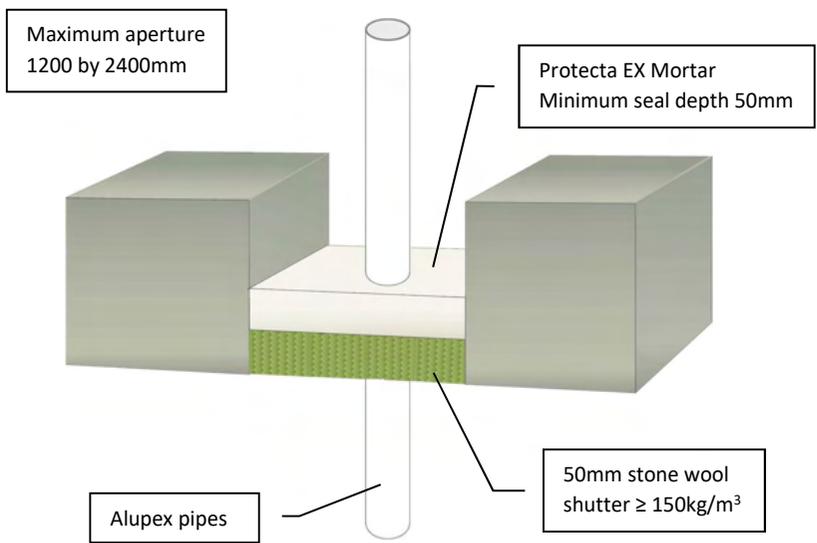
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Installation Instructions

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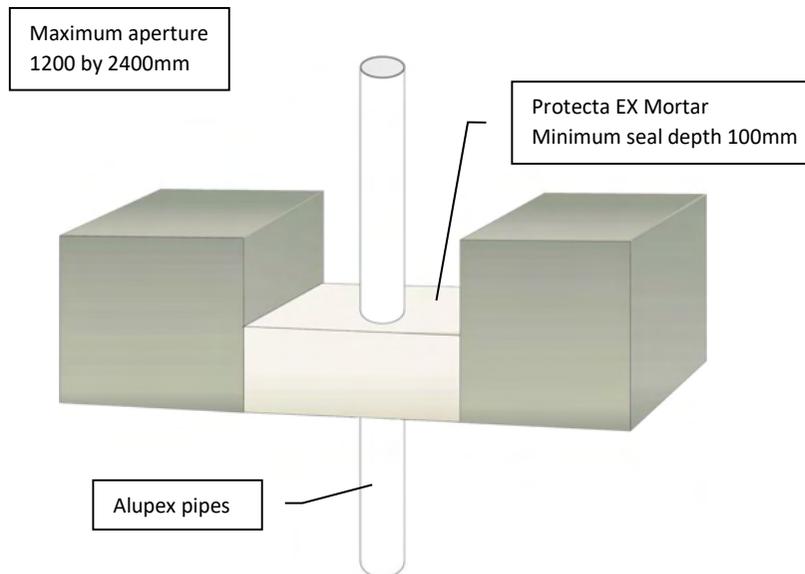
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of un-insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Alupex pipes ≤ Ø20mm	EI 180 C/C & E 180
Alupex pipes ≤ Ø75mm	EI 30 C/C & E 180
Sound reduction (seal only)	48dB
	
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Loadbearing Properties
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Signed and approved:

Client:

Job Title:

Products	Protecta EX Mortar
Application	Fire stopping of un-insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³

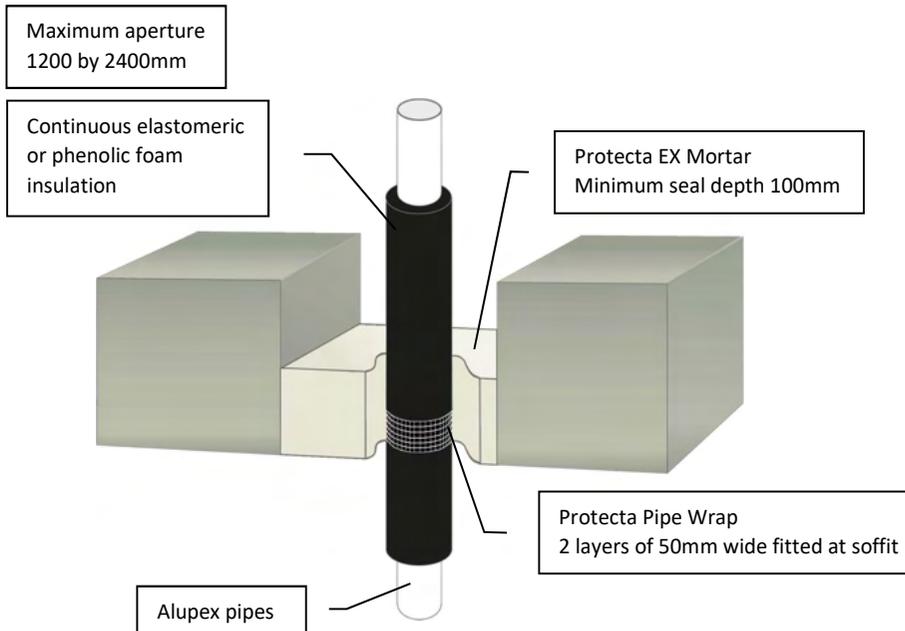
Fire & Sound classification	
Alupex pipes ≤ Ø20mm	EI 180 C/C & E 240
Alupex pipes ≤ Ø75mm	EI 30 C/C, EI 20 U/C & E 240
Sound reduction (seal only)	48dB

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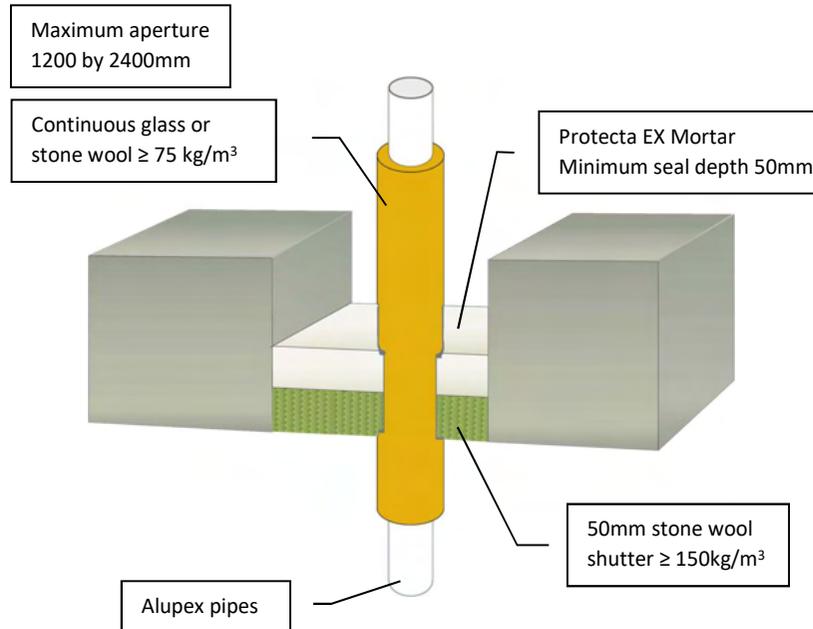
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Alupex pipes ≤ Ø16mm with 9mm foam insulation	EI 240 C/C & E 240
Alupex pipes ≤ Ø75mm with 9 - 13mm foam insulation	EI 90 C/C & E 240
Alupex pipes ≤ Ø75mm with 14 - 25mm foam insulation	EI 90 C/C & E 180
Sound reduction (seal only)	48dB
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3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. 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
5. 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
6. 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.



Minimum separations and limitations

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ETA 21/0071

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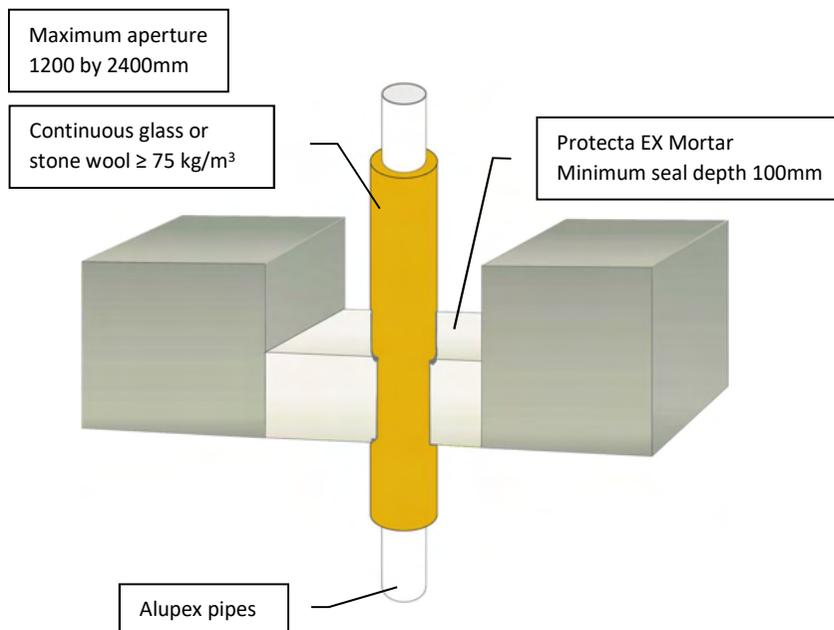
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Alupex pipes ≤ Ø16mm with 20mm thick insulation	EI 180 C/C & E 180
Alupex pipes ≤ Ø75mm with 25 - 50mm thick insulation	EI 120 C/C & E 120
Sound reduction (seal only)	48dB
	
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A4	28/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

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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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

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Signed and approved:

Client:

Job Title:

Products	Protecta EX Mortar
Application	Fire stopping of insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

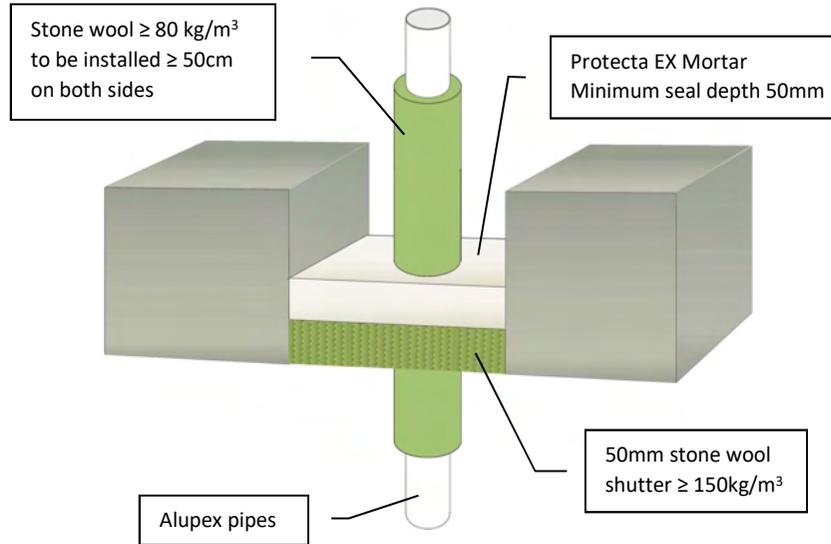
Fire & Sound classification	
Alupex pipes ≤ Ø16mm with 20mm thick insulation	EI 180 C/C & E 180
Alupex pipes ≤ Ø75mm with 25 - 50mm thick insulation	EI 120 C/C & E 120
Sound reduction (seal only)	48dB

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 Email: post.uk@polyseam.com

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Scale: NTS	Drawn by: K.B

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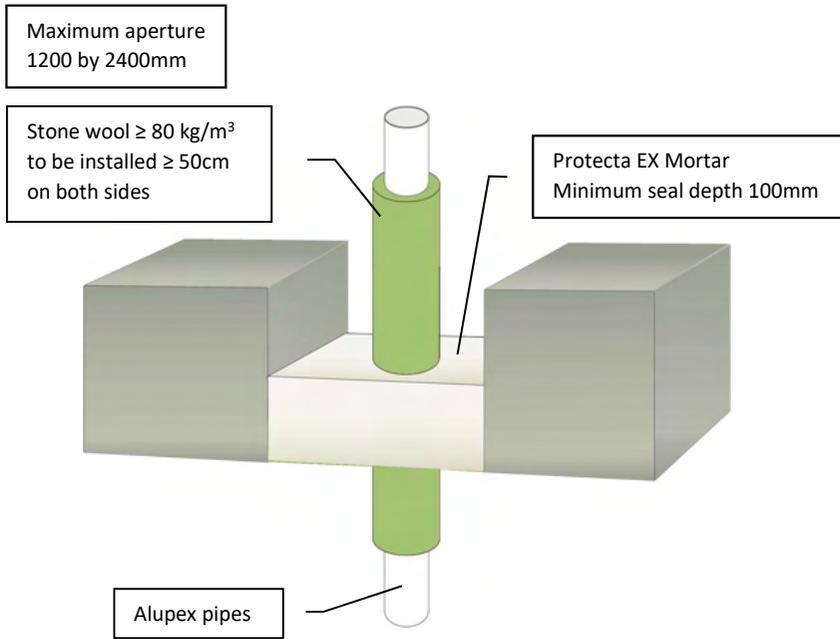
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Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Stone wool shutter
Application	Fire stopping of insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Alupex pipes ≤ Ø16mm with ≥ 20mm insulation in maximum apertures 135 x 135mm EI 240 C/C & E 240	
Alupex pipes ≤ Ø75mm with ≥ 20mm insulation in maximum apertures 1200 x 2400mm EI 180 C/C & E 180	
Alupex pipes ≤ Ø75mm with ≥ 20mm insulation in maximum apertures 135 x 135mm EI 180 C/C & E 240	
Sound reduction (seal only)	48dB
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Signed and approved:

Client:

Job Title:

Products	Protecta EX Mortar
Application	Fire stopping of insulated alupex pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification	
Alupex pipes ≤ Ø16mm with ≥ 20mm insulation	EI 240 C/C & E 240
Alupex pipes ≤ Ø75mm with ≥ 20mm insulation	EI 180 C/C & E 240
Sound reduction (seal only)	48dB

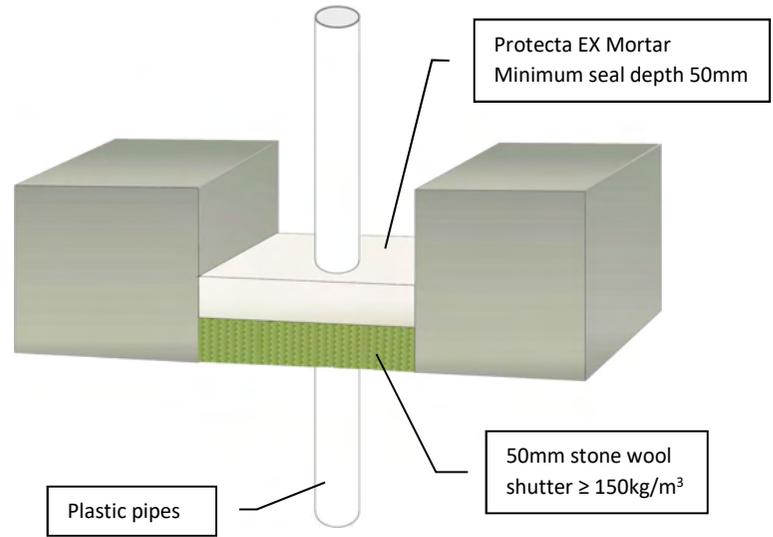
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Signed and approved:

Client:

Job Title:

Products Protecta EX Mortar
 Stone wool shutter
Application Fire stopping of plastic pipes in rigid floors
Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

PVC-U & PVC-C pipes ≤ Ø40mm with wall thickness 1.6 - 3.4mm in maximum apertures 1200 x 2400mm EI 120 U/C & E 120

PEX pipe-in-pipes ≤ Ø25mm in maximum apertures 1200 x 2400mm EI 180 C/C & E 180

PEX pipe-in-pipes ≤ Ø25mm in maximum apertures 550 x 1100mm EI 240 C/C & E 240

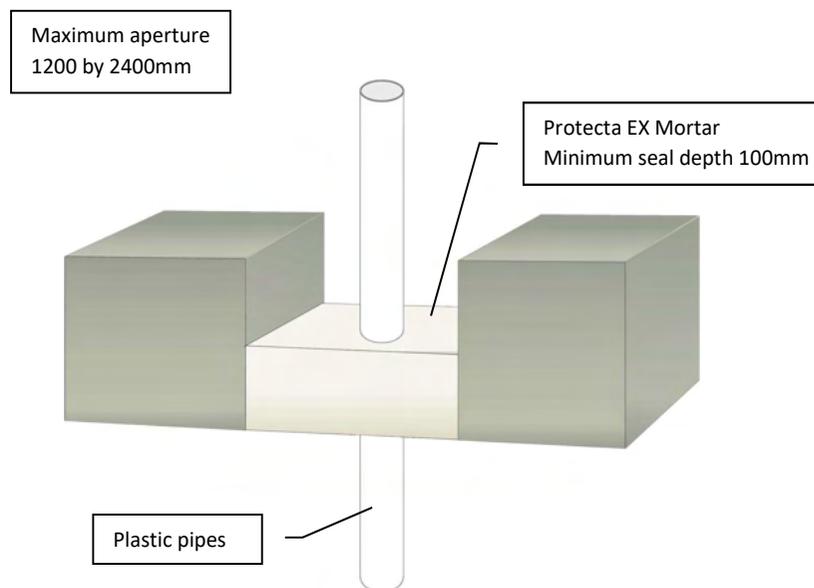
Sound reduction (seal only) 48dB

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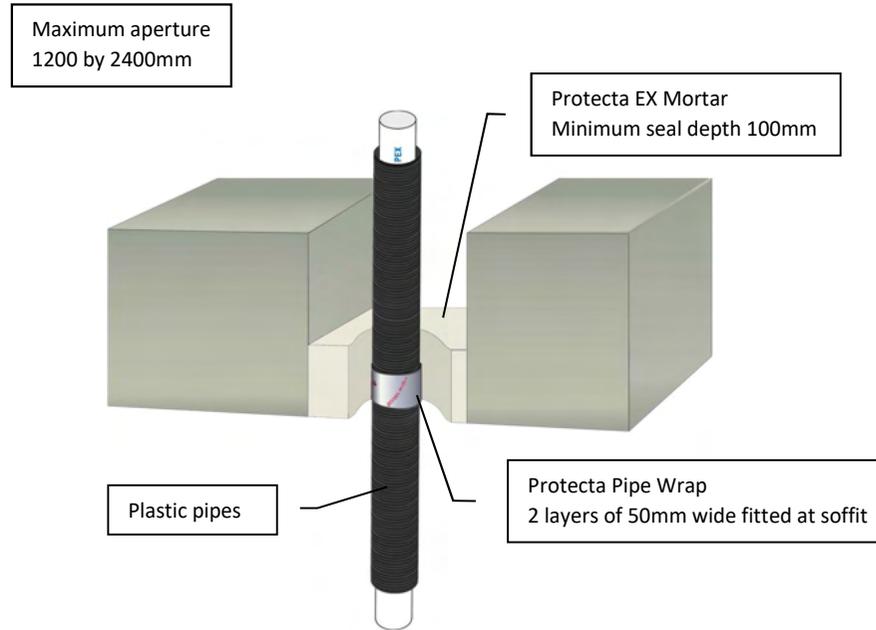
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Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar
Application	Fire stopping of plastic pipes in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
PVC-U & PVC-C pipes ≤ Ø40mm with wall thickness 1.6 - 3.4mm EI 120 U/C & E 120	
PE, ABS & SAN+PVC pipes ≤ Ø40mm with wall thickness 1.8-4.4mm EI 120 U/C & E 120	
PP pipes ≤ Ø40mm with wall thickness 1.8-4.4mm EI 120 U/C & E 120	
PEX pipe-in-pipes ≤ Ø25mm EI 240 C/C & E 240	
Sound reduction (seal only)	48dB
 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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NTS	K.B

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Signed and approved:

Client:

Job Title:

Products Protecta EX Mortar
Protecta FR Pipe Wrap 25m

Application Fire stopping of plastic pipes in rigid floors

Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

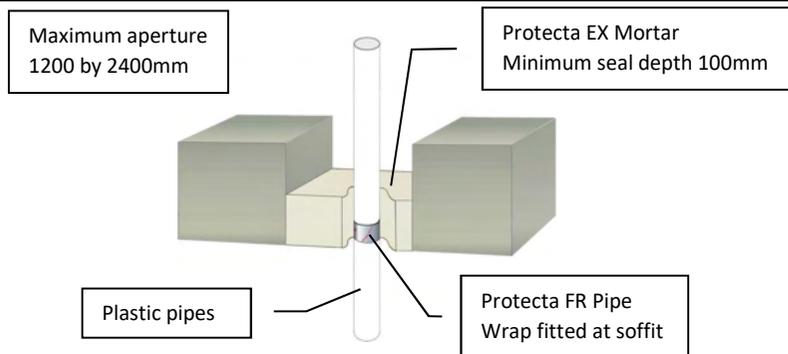
Fire & Sound classification
 PEX pipe-in-pipes ≤ Ø54mm
 EI 120 C/C & E 120
 Sound reduction (seal only) 48dB

Sheet size: **A4** Drawn date & no: 28/3/21

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Services	Pipe Wall Thickness	Pipe Wrap	Classification
≤ Ø40mm PVC-U & PVC-C	1.8 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 180 U/U)
≤ Ø40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 240 U/U (E 240 U/U)
≤ Ø40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø110mm PVC-U & PVC-C	1.9 – 6.6mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø110mm PE, ABS & SAN+PVC	2.5 – 10.0mm	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø110mm PP	1.9 – 6.3mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø125mm PVC-U & PVC-C	3.5 – 7.4mm	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
≤ Ø125mm PE, ABS & SAN+PVC	3.9 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø125mm PP	3.4 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
≤ Ø160mm PVC-U & PVC-C	4.5 – 9.5mm	50 x 10.8mm (6 layers)	EI 90 C/C (E 90 C/C)
≤ Ø160mm PVC-U & PVC-C	4.5mm	50 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
≤ Ø160mm PVC-U & PVC-C	9.5mm	50 x 10.8mm (6 layers)	EI 90 U/C (E 90 U/C)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)

Loadbearing Properties

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Signed and approved:

Client:

Job Title:

Products Protecta EX Mortar
Protecta FR Pipe Wrap 25m

Application Fire stopping of plastic pipes in rigid floors

Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Fire classifications in table on the left.

Sound reduction (seal only)

48dB



Protecta®

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

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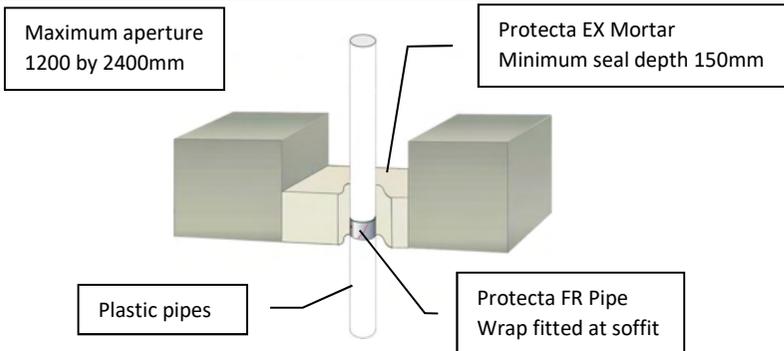
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Sheet size: **A4**
Drawn date & no: **28/3/21**

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

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2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side.
4. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



Services	Pipe Wall Thickness	Pipe Wrap	Classification
≤ Ø40mm PVC-U & PVC-C	1.8 – 3.7mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 180 U/U)
≤ Ø40mm PE, ABS & SAN+PVC	2.4 – 3.7mm	50 x 1.8mm (1 layer)	EI 240 U/U (E 240 U/U)
≤ Ø40mm PP	1.8 – 5.5mm	50 x 1.8mm (1 layer)	EI 120 U/U (E 120 U/U)
≤ Ø110mm PVC-U & PVC-C	1.9 – 6.6mm	50 x 3.6mm (2 layers)	EI 240 U/C (E 240 U/C)
≤ Ø110mm PVC-U & PVC-C	1.8 – 6.8mm	50 x 7.2mm (4 layers)	EI 60 U/U (E 60 U/U)
≤ Ø110mm PE, ABS & SAN+PVC	3.4 – 10.0mm	75 x 5.4mm (3 layers)	EI 240 U/U (E 240 U/U)
≤ Ø110mm PP	3.7 – 10.5mm	50 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø125mm PVC-U & PVC-C	3.5 – 7.4mm	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø125mm PVC-U & PVC-C	1.8 – 7.4mm	50 x 7.2mm (4 layers)	EI 60 U/U (E 60 U/U)
Ø125mm PVC-U & PVC-C	7.4mm	50 x 7.2mm (4 layers)	EI 120 U/U (E 120 U/U)
Ø125mm PE, ABS & SAN+PVC	3.9 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
Ø125mm PE, ABS & SAN+PVC	11.4mm	50 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø125mm PP	3.4 – 11.4mm	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
Ø125mm PP	11.4mm	50 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø140mm PVC-U & PVC-C	6.5 – 8.3mm	75 x 10.8mm (6 layers)	EI 30 U/U (E 120 U/U)
Ø140mm PE, ABS & SAN+PVC	8.0 – 12.4mm	75 x 10.8mm (6 layers)	EI 120 U/U (E 240 U/U)
Ø140mm PP	12.8mm	75 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)
Ø160mm PVC-U & PVC-C	4.5 – 9.5mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø160mm PVC-U & PVC-C	4.5mm	50 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
≤ Ø160mm PVC-U & PVC-C	4.8 – 9.5mm	75 x 10.8mm (6 layers)	EI 30 U/U (E 120 U/U)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
≤ Ø160mm PE, ABS & SAN+PVC	4.9 – 14.6mm	75 x 7.2mm (4 layers)	EI 120 U/U (E 120 U/U)
≤ Ø160mm PE, ABS & SAN+PVC	3.9 – 14.6mm	75 x 18.0mm (10 layers)	EI 120 U/U (E 240 U/U)
≤ Ø160mm PP	4.9 – 14.6mm	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
Ø160mm PP	14.6mm	75 x 7.2mm (4 layers)	EI 240 U/U (E 240 U/U)

Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.

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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 EX Mortar
Protecta FR Pipe Wrap 25m

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 table on the left.

Sound reduction (seal only) 48dB



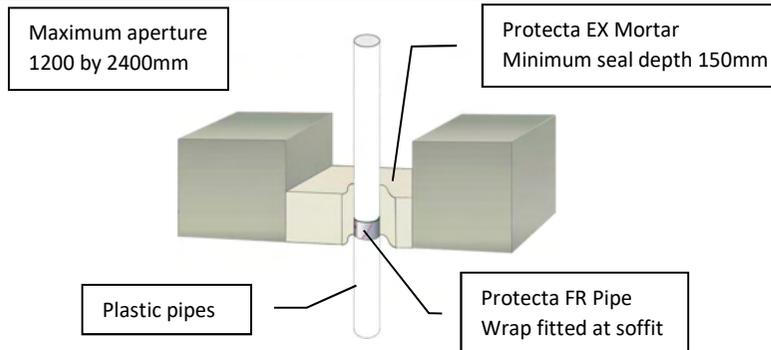
Protecta®
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Email: post.uk@polyseam.com

Sheet size: **A4** Drawn date & no: **28/3/21**

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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



Services	Pipe Wall Thickness	Pipe Wrap	Classification
Ø161-199mm PVC-U & PVC-C	4.5 – 11.9mm	75 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø200mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø201-314mm PVC-U & PVC-C	4.9 – 11.9mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
Ø315mm PVC-U & PVC-C	7.7mm	75 x 18.0mm (10 layers)	EI 120 C/C (E 120 C/C)
Ø315mm PVC-U & PVC-C	7.8 – 12.1mm	75 x 18.0mm (10 layers)	EI 90 C/C (E 90 C/C)
Ø316-399mm PVC-U & PVC-C	7.7 – 15.3mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
Ø400mm PVC-U & PVC-C	15.3mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
Ø161-199mm PE, ABS, SAN+PVC	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 120 C/C (E 120 C/C)
Ø200mm PE, ABS & SAN+PVC	6.2 – 18.2mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø250mm PE, ABS & SAN+PVC	7.8mm	75 x 12.6mm (7 layers)	EI 180 C/C (E 180 C/C)
Ø201-315mm PE, ABS, SAN+PVC	4.9 – 18.7mm	75 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
Ø161-200mm PP	4.9 – 18.2mm	75 x 10.8mm (6 layers)	EI 240 C/C (E 240 C/C)
Ø201-315mm PP	4.9 – 7.7mm	75 x 18.0mm (10 layers)	EI 180 C/C (E 180 C/C)
Ø201-315mm PP	7.8 – 28.6mm	75 x 18.0mm (10 layers)	EI 60 C/C (E 60 C/C)
Ø316-399mm PP	7.7 – 28.6mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)
Ø400mm PP	22.7mm	75 x 28.8mm (16 layers)	EI 60 C/C (E 60 C/C)

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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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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 EX Mortar
Protecta FR Pipe Wrap 25m

Application Fire stopping of very large 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 table on the left.

Sound reduction (seal only) 48dB



Protecta®

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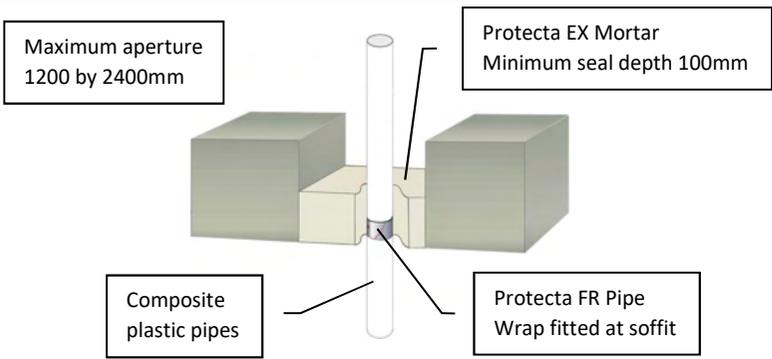
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 28/3/21

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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



Services	Pipe Wrap	Classification
Ø 32mm Aquatherm Green SDR9 pipes	50 x 1.8mm (1 layer)	EI 240 C/C (E 240 C/C)
≤ Ø 110mm Aquatherm Green SDR9 pipes	50 x 3.6mm (2 layers)	EI 240 C/C (E 240 C/C)
≤ Ø 50mm BluePower pipes	50 x 3.6mm (2 layers)	EI 240 U/U (E 240 U/U)
≤ Ø 110mm BluePower pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm BluePower pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 120 U/C)
Ø 160mm BluePower pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 50mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Geberit Silent-PP pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 110mm Polo-Kal NG pipes	50 x 3.6mm (2 layers)	EI 180 U/C (E 180 U/C)
Ø 125mm Polo-Kal NG pipes	50 x 7.2mm (4 layers)	EI 240 U/C (E 240 U/C)
Ø 160mm Polo-Kal NG pipes	50 x 10.8mm (6 layers)	EI 240 U/C (E 240 U/C)
≤ Ø 50mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Rehau Raupiano Plus pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
Ø 125mm Rehau Raupiano Plus pipes	50 x 7.2mm (4 layers)	EI 120 U/C (E 240 U/C)
Ø 160mm Rehau Raupiano Plus pipes	50 x 10.8mm (6 layers)	EI 120 U/C (E 120 U/C)
Ø 50mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Uponor Decibel pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)
≤ Ø 50mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/U (E 120 U/U)
≤ Ø 110mm Wavin SiTech pipes	50 x 3.6mm (2 layers)	EI 120 U/C (E 120 U/C)

Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm x 2400mm.



ETA 21/0071

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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 EX Mortar
Protecta FR Pipe Wrap 25m

Application Fire stopping of composite plastic pipes in rigid floors

Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Fire classifications in table on the left.

Sound reduction (seal only) 48dB



Protecta®

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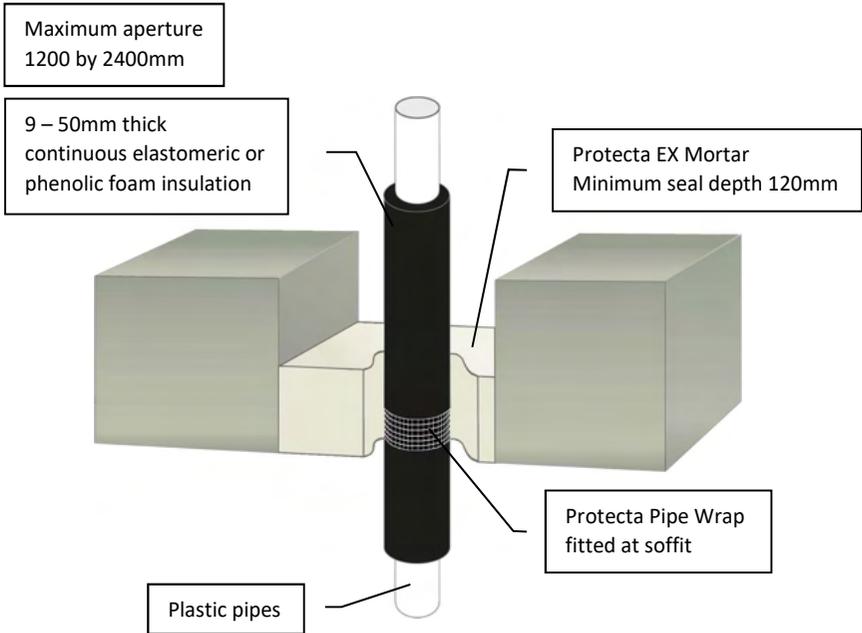
Email: post.uk@polyseam.com

Sheet size: **A4**
Drawn date & no: 28/3/21

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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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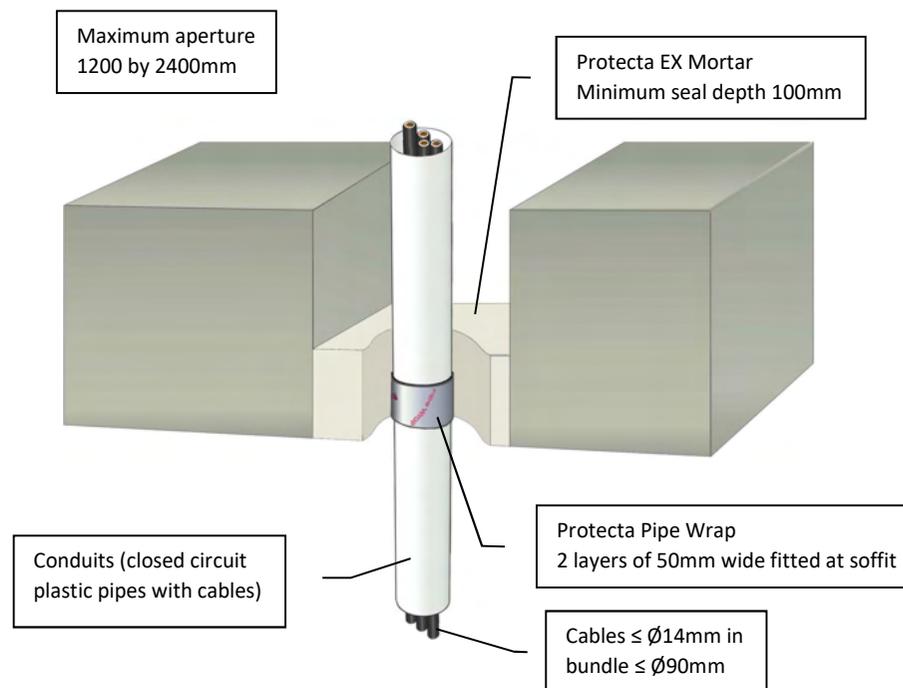
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Protecta FR Pipe Wrap 25m
Application	Fire stopping of insulated plastic pipes in rigid floors
Construction	Minimum floor thickness of 120 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø68mm incl. insulation with 2 layers of 50mm pipe wrap EI 240 C/C & E 240	
PE, ABS and SAN+PVC pipes with wall thickness 3.0 - 9.5mm, ≤ Ø178mm incl. insulation with 6 layers of 75mm pipe wrap EI 240 C/C & E 240	
PE pipes ≤ Ø160mm with wall thickness 3.0 - 9.5mm, and ≤ Ø260mm incl. insulation with 10 layers of 75mm pipe wrap EI 120 C/C & E 120	
PP pipes with wall thickness 1.8 – 9.1mm, ≤ Ø68mm incl. insulation with 2 layers of 50mm pipe wrap EI 180 C/C & E 240	
PP pipes with wall thickness 1.8 – 9.1mm, ≤ Ø178mm incl. insulation with 6 layers of 75mm pipe wrap EI 240 C/C & E 240	
PP pipes ≤ Ø160mm with wall thickness 1.8 – 9.1mm, and ≤ Ø260mm incl. insulation with 10 layers of 75mm pipe wrap EI 120 C/C & E 120	
Sound reduction (seal only)	48dB
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Sheet size: A4	Drawn date & no: 28/3/21
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. The seal can be positioned to either side of the construction or anywhere in between.
3. When installing Protecta® EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side. Ensure there is sufficient thickness of concrete below the void for the depth of mortar. 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. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
5. 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
6. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



ETA 21/0071

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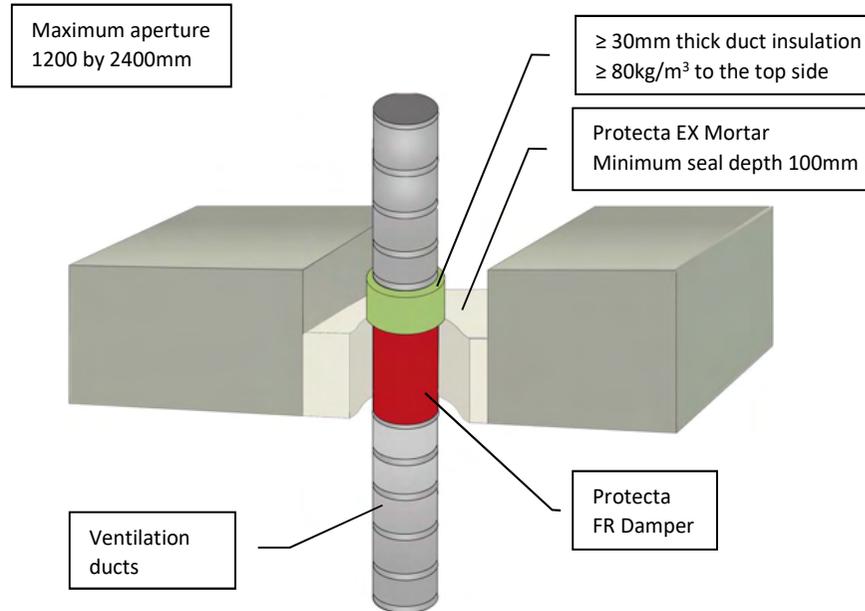
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar Protecta FR Pipe Wrap 25m
Application	Fire stopping of conduits in rigid floors
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Conduits of PVC-U & PVC-C pipes ≤ Ø110mm with wall thickness 2.7-6.6mm EI 120 U/C & E 120	
Conduits of PE, ABS & SAN+PVC pipes ≤ Ø110mm with wall thickness 2.7-10.0mm EI 60 U/C & E 120	
Conduits of PP pipes ≤ Ø110mm with wall thickness 3.4-6.3mm EI 60 U/C & E 60	
Sound reduction (seal only)	48dB
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	28/3/21
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. Before installing the fire seal 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. The dampers can be fitted in the apertures either by connecting them to the ventilation ducts before the fire seal is started, or fixed in the apertures with the fire seal, and connected to the ducts afterwards.
3. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
4. The seal can be positioned to either side of the floor or anywhere in between. However, when installing EX Mortar in hollow floor slabs or boards, level the fire seal with the soffit side.
5. Install a 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.
6. The faces of the aperture may be moistened for better adhesion.
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.
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.
9. Insulate the duct towards the fire seal with a mineral fibre mat, with or without aluminium foil.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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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 EX Mortar
Protecta FR Damper

Application Fire stopping of ventilation ducts in rigid floors

Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification
 ≤ Ø 400mm damper/ducts with ≥ 150mm stone wool matt on the top side EI 120 & E 180
 ≤ Ø 1000mm damper/ducts with ≥ 500mm stone wool matt on the top side EI 90 & E 90
 ≤ 600 x 1000mm damper/ducts with ≥ 500mm stone wool matt on the top side EI 60 & E 90
 ≤ 1000 x 1000mm damper/ducts with ≥ 500mm stone wool matt on the top side EI 90 & E 90

Sound reduction (seal only) 48dB

Sheet size: **A4** Drawn date & no: 28/3/21

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

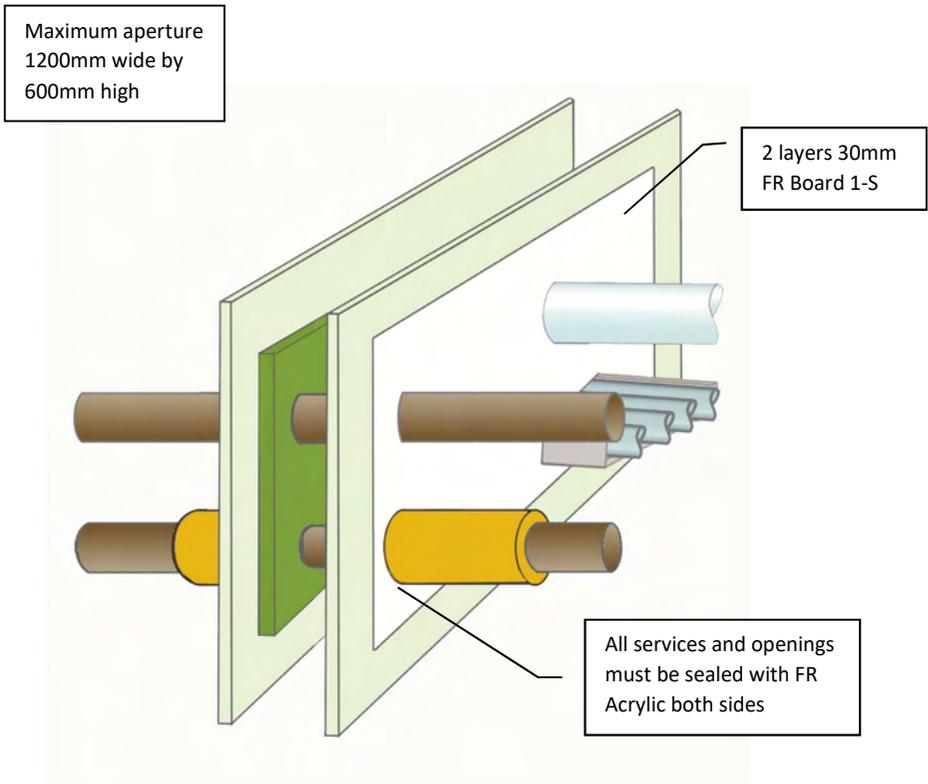
Appendix IV

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Apertures with mixed services

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 and Protecta® FR Acrylic 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 be flush with the surface of the gypsum on both sides.
4. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install Protecta® FR Board on the exposed side. The board should be facing the (fire) exposed side.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 30**
Sound Reduction **29 dB**

Installation details - Page 1 of 2

Products	Protecta FR Board Protecta FR Acrylic
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 cable trays
 2. Conduits
 3. Steel pipes
 4. Plastic pipes
- For full specification see next page.

- Indoor air comfort test results**
- French VOC Regulation – A+
 - French CMR components – Pass
 - Italian CAM – Pass
 - ABG / AgBB to the guidelines of DIBt – Pass
 - Belgian Regulation – Pass
 - EU Decopaint Directive – Compliant
 - BREEAM-NOR – Compliant
 - M1 Protocol – Pass
 - LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



ETA 21/0047



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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>

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Scale: NTS	Drawn by & date: K.B. 14/9/21
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MIXED SERVICE APERTUREFire Classification **EI 30**Sound Reduction **29 dB**

List of services - Page 2 of 2

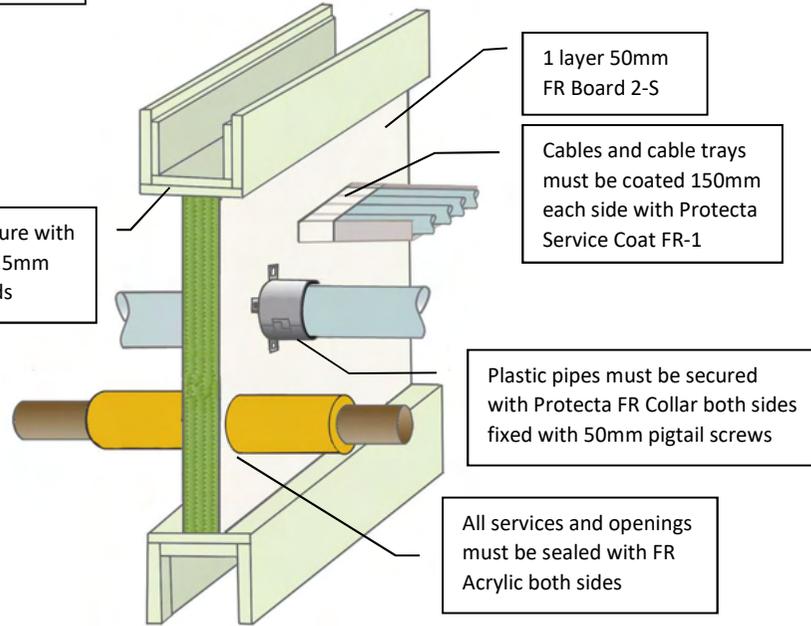
Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe Wraps or Coat Back
Cables, single or bundled, with or without cable trays	≤ Ø80mm per cable	-	-	-
Plastic conduits, with or without cable trays	≤ Ø32mm per conduit	-	-	-
Steel pipes C/U	≤ Ø22mm per pipe	-	None	-
	≤ Ø324mm per pipe	-	20-30mm thick continuous stone wool ≥ 80kg/m ³	-
PVC-U and PVC-C pipes	≤ Ø32mm per pipe	1.0 – 1.8mm	None	None

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. The board can be positioned to either side of the construction or anywhere in between.
3. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install Protecta® FR Board on the (fire) exposed side.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.

Maximum aperture
1200mm wide by
600mm high

Framed aperture with
2 layers of 12.5mm
gypsum boards



1 layer 50mm
FR Board 2-S

Cables and cable trays
must be coated 150mm
each side with Protecta
Service Coat FR-1

Plastic pipes must be secured
with Protecta FR Collar both sides
fixed with 50mm pigtail screws

All services and openings
must be sealed with FR
Acrylic 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 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

MIXED SERVICE APERTURE

Fire Classification **EI 60**
Sound Reduction **29 dB**

Installation details - Page 1 of 2

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, cable trays and ladders
 2. Steel pipes
 3. Alupex pipes
 4. Plastic pipes
- For full specification see next page.

- Indoor air comfort test results**
- French VOC Regulation – A+
 - French CMR components – Pass
 - Italian CAM – Pass
 - ABG / AgBB to the guidelines of DIBt – Pass
 - Belgian Regulation – Pass
 - EU Decopaint Directive – Compliant
 - BREEAM-NOR – Compliant
 - M1 Protocol – Pass
 - LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.

Scale: NTS	Drawn by & date: K.B. 14/9/21
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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>

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MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **29 dB**

List of services - Page 2 of 2

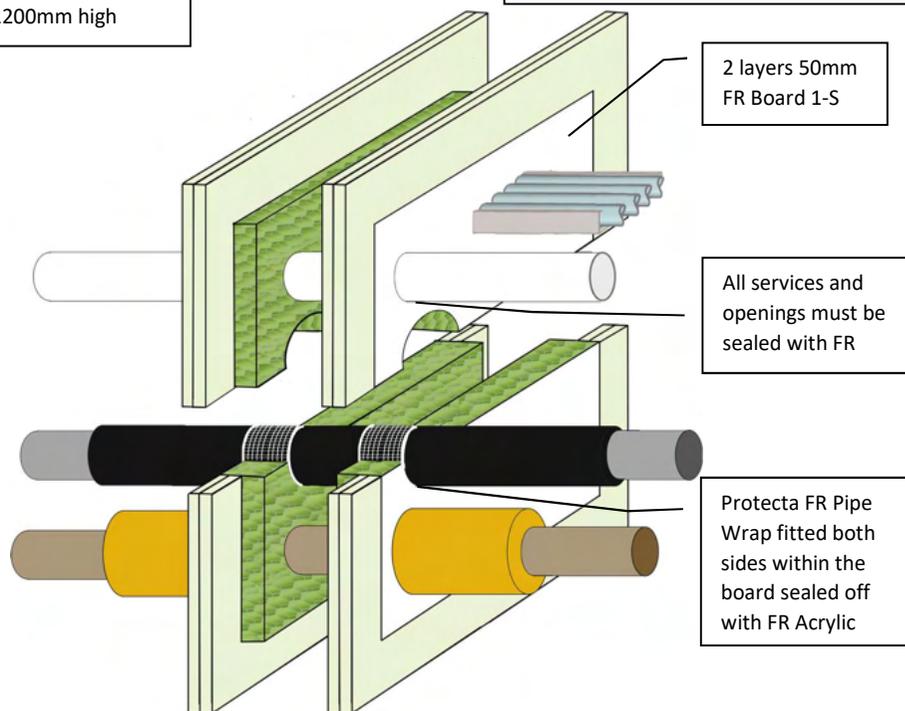
Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe Collars or Coat Back
Cables, single or bundled, with or without perforated cable trays and ladders	≤ Ø80mm per cable	-	-	300µ WFT Protecta Service Coat FR-1
Steel pipes C/U	≤ Ø324mm per pipe	-	20-30mm thick continuous stone wool ≥ 80kg/m ³	-
Alupex pipes C/C	≤ Ø75mm per pipe	-	25mm continuous glass or stone wool ≥ 75kg/m ³	-
Alupex pipes C/C	≤ Ø16mm per pipe	-	9mm thick continuous elastomeric or PE foam	Protecta FR Collar 50mm high ≤ Ø40mm
Alupex pipes C/C	≤ Ø75mm per pipe	-	25mm thick continuous elastomeric or PE foam	Protecta FR Collar 60mm high Ø125mm
PVC-U and PVC-C pipes U/C	≤ Ø110mm per pipe	1.9 – 6.6mm	None	Protecta FR Collar 50mm high ≤ Ø110mm
PVC-U and PVC-C pipes C/C	≤ Ø160mm per pipe	3.1 – 9.5mm		Protecta FR Collar 60mm high ≤ Ø160mm
PE, ABS and SAN+PVC pipes C/C	≤ Ø110mm per pipe	3.0 – 10.0mm		Protecta FR Collar 50mm high ≤ Ø110mm
PE, ABS and SAN+PVC pipes C/C	≤ Ø160mm per pipe	3.9 – 9.5mm		Protecta FR Collar 60mm high ≤ Ø160mm
PP pipes C/C	≤ Ø90mm per pipe	1.8 – 4.6mm		Protecta FR Collar 50mm high ≤ Ø90mm
PP pipes C/C	≤ Ø160mm per pipe	2.7 – 9.1mm		Protecta FR Collar 60mm high ≤ Ø160mm

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 and Protecta® FR Acrylic 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, when possible, be flush with the surface of the gypsum on both sides.
4. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install Protecta® FR Board on the exposed side. The board should be facing the (fire) exposed side.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides, and any visible mineral fibres must be coated with Protecta® FR Coating.
7. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.

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



2 layers 50mm FR Board 1-S

All services and openings must be sealed with FR

Protecta FR Pipe Wrap fitted both sides within the board sealed off with FR Acrylic

Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 60**
Sound Reduction **52 dB**

Installation details - Page 1 of 5

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, with or without cable trays
 2. Steel pipes
 3. Copper pipes
 4. Alupex pipes
 5. Plastic pipes
 6. Composite pipes
 7. Conduits, with or without cable trays
 8. Ventilation ducts

For full specification see pages 2 to 5.

Indoor air comfort test results

- French VOC Regulation – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



ETA 21/0047



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Scale:
NTS

Drawn by & date:
K.B. 14/9/21

MIXED SERVICE APERTURE

Fire Classification **EI 60**

Sound Reduction **52 dB**

List of services - Page 2 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
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
	≤ 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	-
	≤ Ø54mm per pipe	-	40mm thick continuous glass wool ≥ 75kg/m ³	C/C	-
	≤ 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	-
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
	≤ Ø15mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m ³	C/C	-
	≤ Ø54mm per pipe	-	40mm thick continuous glass- or stone wool ≥ 75kg/m ³	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	-

MIXED SERVICE APERTURE

Fire Classification **EI 60**

Sound Reduction **52 dB**

List of services - Page 3 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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
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

MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 4 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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
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

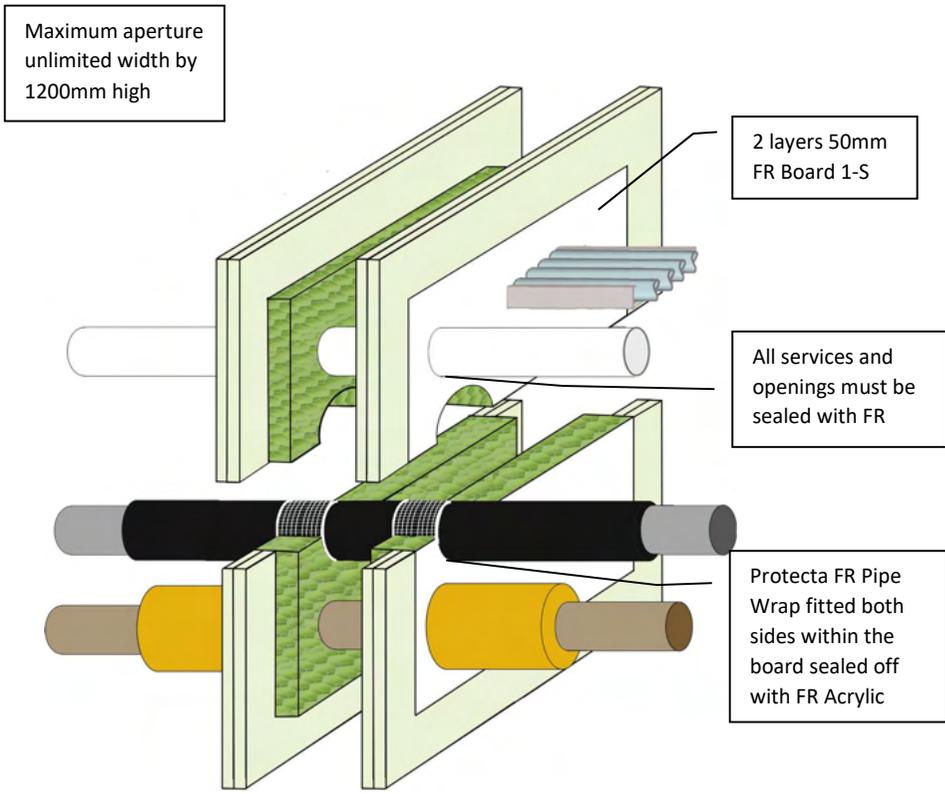
MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 5 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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 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			
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

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 and Protecta® FR Acrylic 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 be flush with the surface of the gypsum on both sides.
4. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install Protecta® FR Board on the exposed side. The board should be facing the (fire) exposed side.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 90**
Sound Reduction **52 dB**

Installation details - Page 1 of 4

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 steel studs or timber studs* lined on both faces with minimum 2 layers of 12.5 mm thick boards

- Services**
1. Steel pipes
 2. Copper pipes
 3. Alupex pipes
 4. Plastic pipes
 5. Composite pipes
 6. Conduits
 7. Ventilation ducts

For full specification see pages 2 to 4.

Indoor air comfort test results

- French VOC Regulation – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



ETA 21/0047



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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>

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Scale:
NTS

Drawn by & date:
K.B. 14/9/21

MIXED SERVICE APERTUREFire Classification **EI 90**Sound Reduction **52 dB**

List of services - Page 2 of 4

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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	-
Copper pipes	≤ Ø219mm per pipe	-	≥ 30mm thick x 500mm long stone wool ≥ 80 kg/m ³ both sides	C/U	-
	≤ Ø54mm per pipe	-	9 - 13mm thick continuous elastomeric or PE	C/C	2 layers of 50mm wide both sides
Alupex pipes	≤ Ø54mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m ³ both sides	C/C	-
	≤ 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	-
PEX pipe-in-pipes	≤ Ø16mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m ³ both sides	C/C	-
	≤ Ø25mm per pipe	-	-	C/C	None
	≤ Ø54mm per pipe	-	-	C/C	2 layers of 50mm wide both sides
PVC-U & PVC-C pipes	≤ Ø25mm in bundles ≤ Ø50mm	-	-	C/C	2 layers of 50mm wide both sides
	≤ 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	

MIXED SERVICE APERTUREFire Classification **EI 90**Sound Reduction **52 dB**

List of services - Page 3 of 4

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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
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

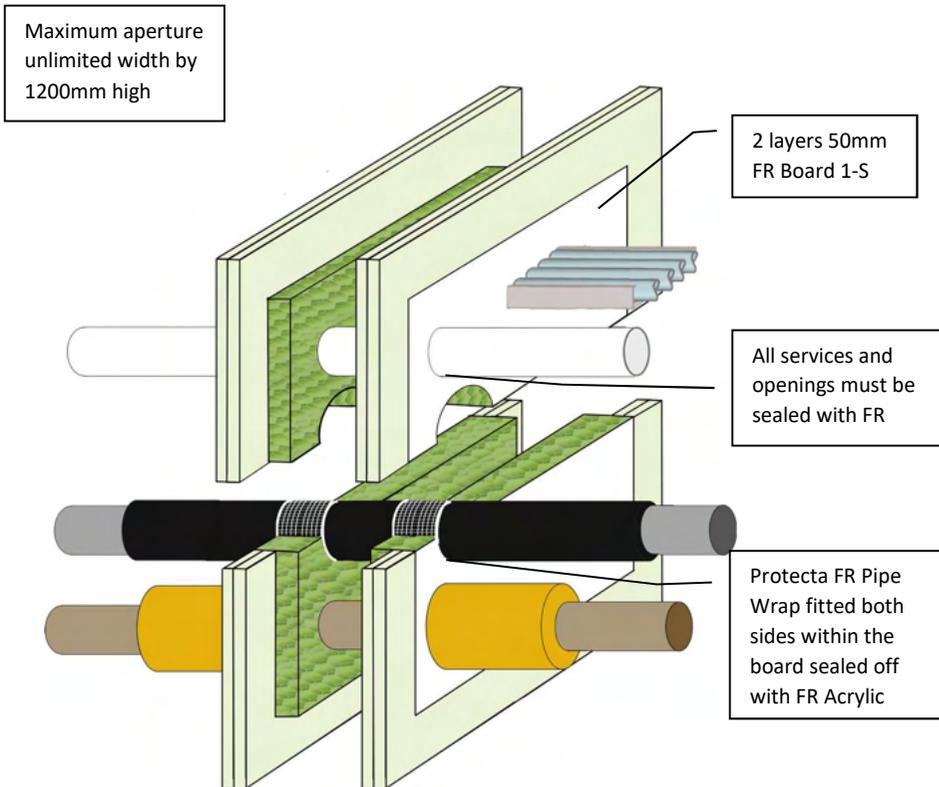
MIXED SERVICE APERTUREFire Classification **EI 90**Sound Reduction **52 dB**

List of services - Page 4 of 4

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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 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/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

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 and Protecta® FR Acrylic 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 be flush with the surface of the gypsum on both sides.
4. When fire sealing shaft walls consisting of gypsum only on one side, subject to authority approval, install Protecta® FR Board on the exposed side. The board should be facing the (fire) exposed side.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
6. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
7. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 120**
Sound Reduction **52 dB**

Installation details - Page 1 of 3

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. Steel pipes
 2. Copper pipes
 3. Alupex pipes
 4. Plastic pipes
 5. Composite pipes
 6. Ventilation ducts

For full specification see pages 2 to 3.

Indoor air comfort test results

- French VOC Regulation – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



ETA 21/0047



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MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **52 dB**

List of services - Page 2 of 3

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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/m ³	C/U	-
	≤ Ø40mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m ³ both sides	C/U	-
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/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
	≤ Ø16mm per pipe	-	≥ 20mm thick x 500mm long stone wool ≥ 80 kg/m ³ 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

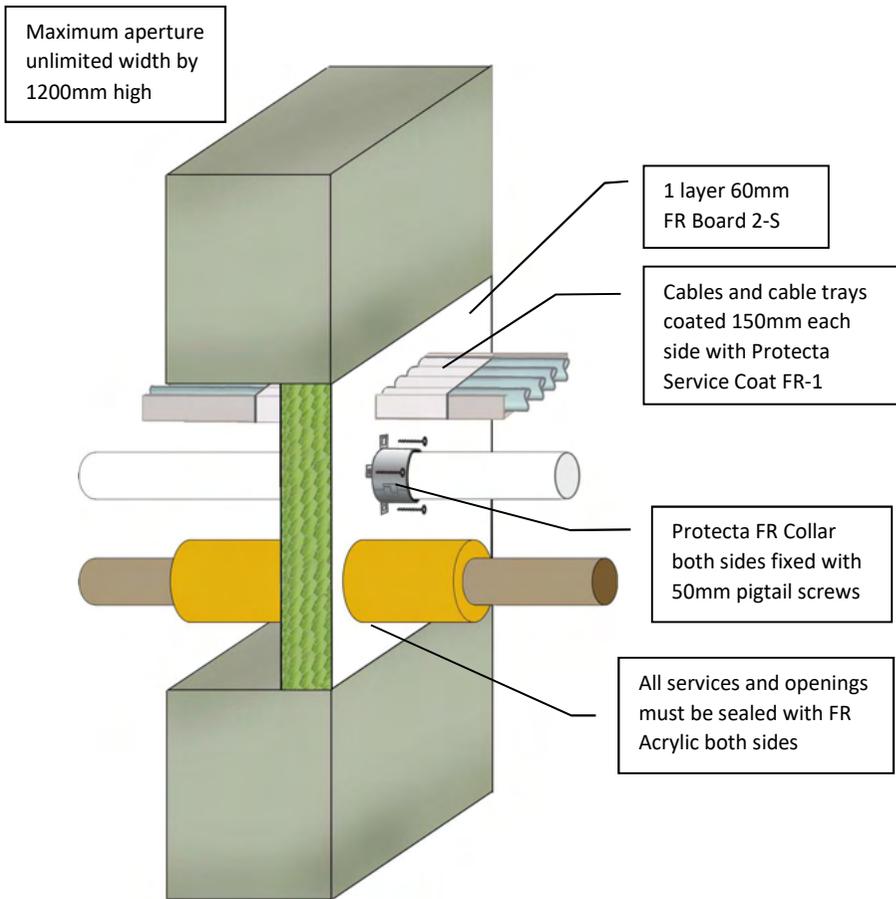
MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **52 dB**

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

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 and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 60**
Sound Reduction **29 dB**

Installation details - Page 1 of 2

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 $\geq 650 \text{ kg/m}^3$

Services

1. Cables, cable trays and ladders
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 – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.

Scale: NTS	Drawn by & date: K.B. 14/9/21
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MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **29 dB**

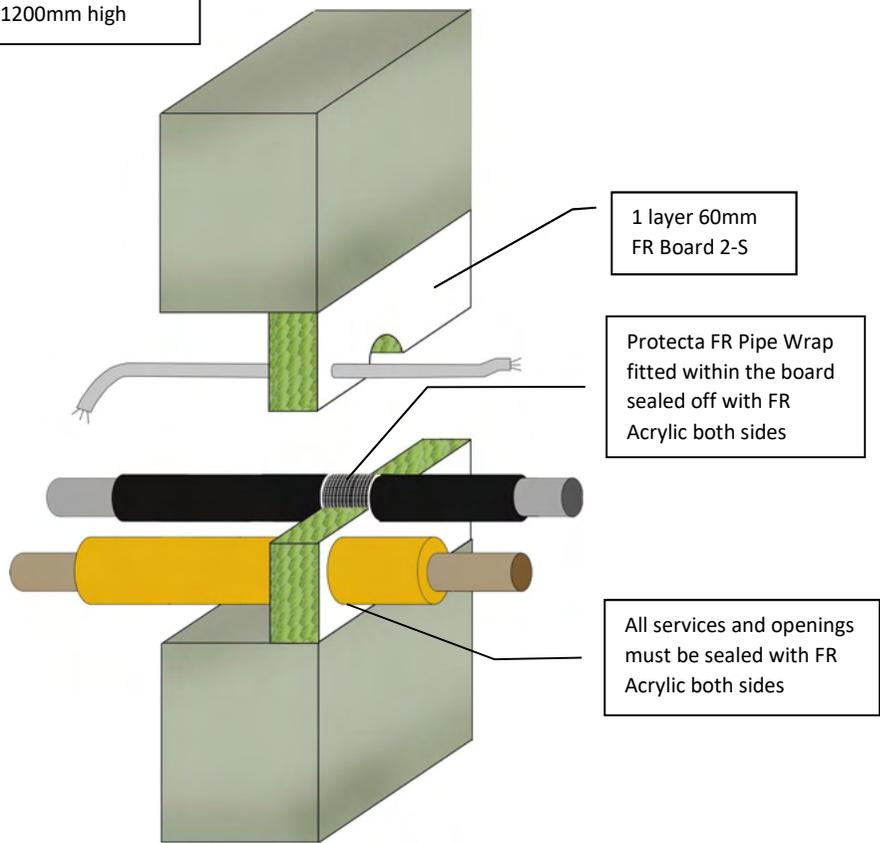
List of services - Page 2 of 2

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 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	-	25mm continuous glass or stone wool ≥ 75kg/m ³	C/C	-
	≤ Ø16mm per pipe	-	9mm thick continuous elastomeric or PE foam	C/C	Protecta FR Collar 50mm high
	≤ Ø75mm per pipe	-	25mm thick continuous elastomeric or PE foam	C/C	Protecta FR Collar 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

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 and Protecta® FR Acrylic 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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.

Maximum aperture unlimited width by 1200mm 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 200mm. Services should be a minimum of 25mm from seal edges. Services within the system Protecta® FR Board seal do not require a minimum separation, except where Protecta® FR Pipe Wraps are used, which should be a minimum of 30mm from other services in the aperture. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

MIXED SERVICE APERTURE

Fire Classification **E 120**
Sound Reduction **29 dB**

Installation details - Page 1 of 2

Products	Protecta FR Board Protecta FR Acrylic Protecta FR Pipe Wrap
Construction	Minimum wall thickness of 75 mm and comprise concrete, aerated concrete or masonry, with a density of $\geq 650 \text{ kg/m}^3$

Services

1. Cables
2. Steel pipes
3. Copper pipes
4. Alupex pipes

For full specification see page 2.

Indoor air comfort test results

- French VOC Regulation – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



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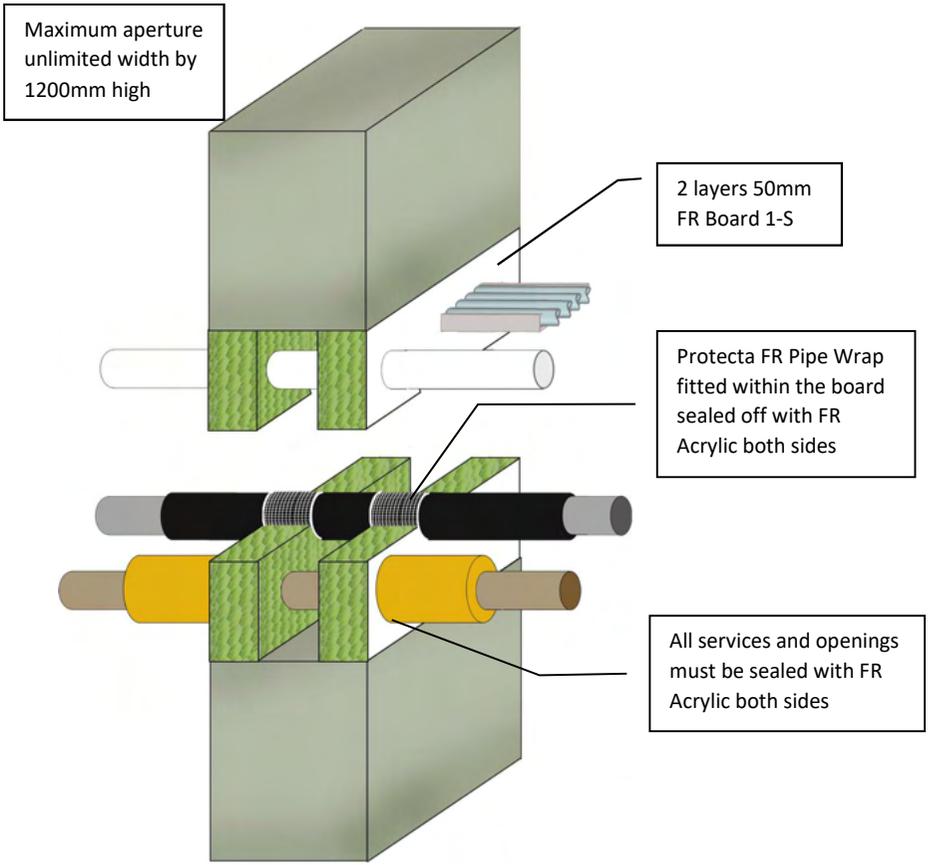
MIXED SERVICE APERTUREFire Classification **E 120**Sound Reduction **29 dB**

List of services - Page 2 of 2

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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	-

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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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



MIXED SERVICE APERTURE

Fire Classification **EI 60**
Sound Reduction **52 dB**

Installation details - Page 1 of 5

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 $\geq 650 \text{ kg/m}^3$

- 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, with or without cable trays
 8. Ventilation ducts

For full specification see pages 2 - 5.

- Indoor air comfort test results**
- French VOC Regulation – A+
 - French CMR components – Pass
 - Italian CAM – Pass
 - ABG / AgBB to the guidelines of DIBt – Pass
 - Belgian Regulation – Pass
 - EU Decopaint Directive – Compliant
 - BREEAM-NOR – Compliant
 - M1 Protocol – Pass
 - LEED v4 – Compliant

Durability
Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.

Scale: NTS	Drawn by & date: K.B. 18/9/21
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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>

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MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 2 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
Cables, single or bundled, with or w/o trays	≤ Ø80mm per cable	-	-	-	-
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
	≤ 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	-
	≤ Ø54mm per pipe	-	40mm thick continuous glass wool ≥ 75kg/m ³	C/C	-
	≤ 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	-
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
	≤ Ø15mm per pipe	-	20mm thick continuous glass- or stone wool ≥ 75kg/m ³	C/C	-
	≤ Ø54mm per pipe	-	40mm thick continuous glass- or stone wool ≥ 75kg/m ³	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	-

MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 3 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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
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

MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 4 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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
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

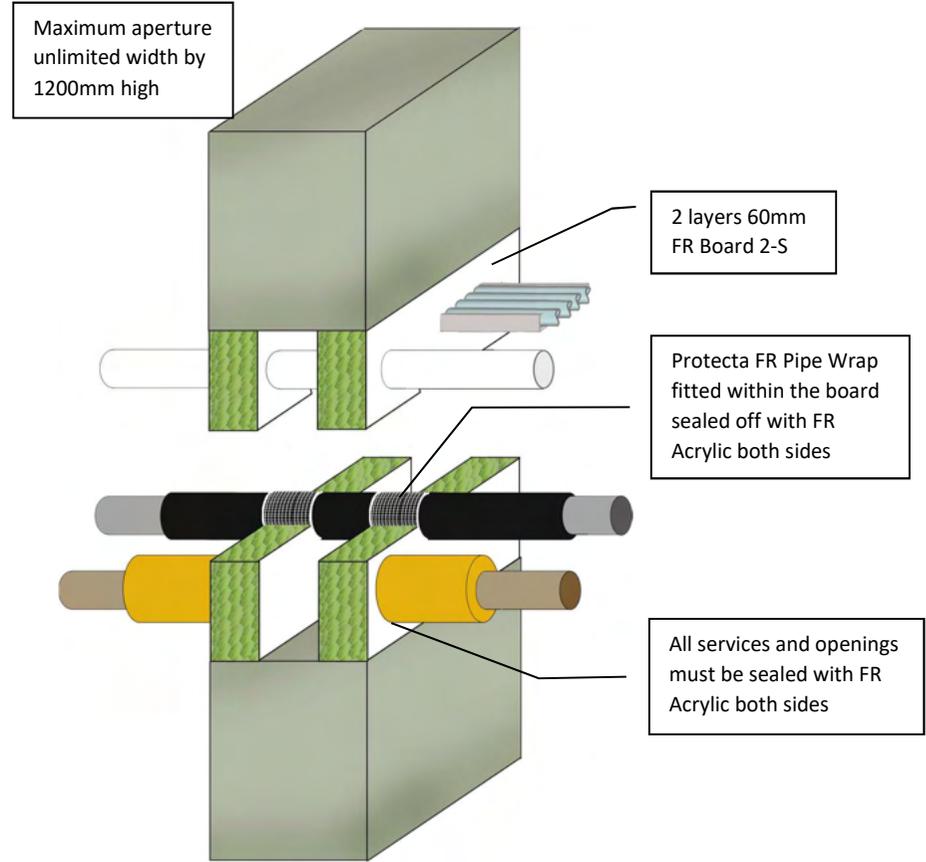
MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **52 dB**

List of services - Page 5 of 5

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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 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			
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

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 and Protecta® FR Acrylic 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 be flush with the surface of the construction on both sides to maximize the fire resistance. If this is not possible, there should be an air gap of at least 30mm between the boards.
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 can be sealed with Protecta® FR Coating or Protecta® FR Acrylic prior to fitting which will act as an adhesive and ensure a smoke tight seal.
5. All joints, gaps or imperfections in the installed seal must be filled with Protecta® FR Acrylic on both sides.
6. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Minimum separations and limitations

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

MIXED SERVICE APERTURE

Fire Classification **EI 120**

Sound Reduction **52 dB**

Installation details - Page 1 of 4

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 $\geq 650 \text{ kg/m}^3$

Services

1. Cables, with or without cable trays
2. Conduits, with or without cable trays
3. Steel 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 – A+
- French CMR components – Pass
- Italian CAM – Pass
- ABG / AgBB to the guidelines of DIBt – Pass
- Belgian Regulation – Pass
- EU Decopaint Directive – Compliant
- BREEAM-NOR – Compliant
- M1 Protocol – Pass
- LEED v4 – Compliant

Durability

Y₁ - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y₂, Z₁ and Z₂.



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Scale:
NTS

Drawn by & date:
K.B. 18/9/21

MIXED SERVICE APERTURE

Fire Classification **EI 120**

Sound Reduction **52 dB**

List of services - Page 2 of 4

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	≤ 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	-
Copper pipes	≤ 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	-
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

MIXED SERVICE APERTURE

Fire Classification **EI 120**

Sound Reduction **52 dB**

List of services - Page 3 of 4

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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	-	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
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

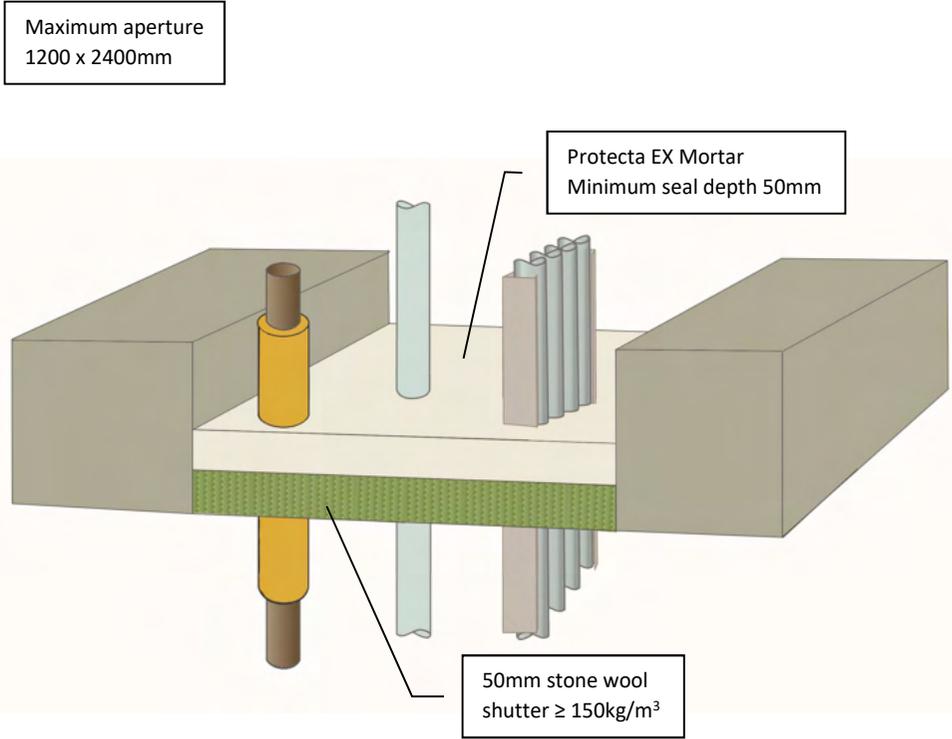
MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **52 dB**

List of services - Page 4 of 4

Type of Services	Size of Services	Pipe wall thicknesses	Pipe Insulation	Pipe config	Pipe Wraps
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 wide	-	≥ 30mm thick x 50cm long stonewool mat ≥80kg/m ³ both sides	-	Protecta FR Damper

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. 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
6. 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).
7. 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.



Minimum separations and limitations

An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

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/m ³

- 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

- EMICODE EC 1^{PLUS} – Complies
- BREEAM-NOR – Complies
- DIBt – Complies
- LEED – Complies

Durability

Z₂ - Intended for use in internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.



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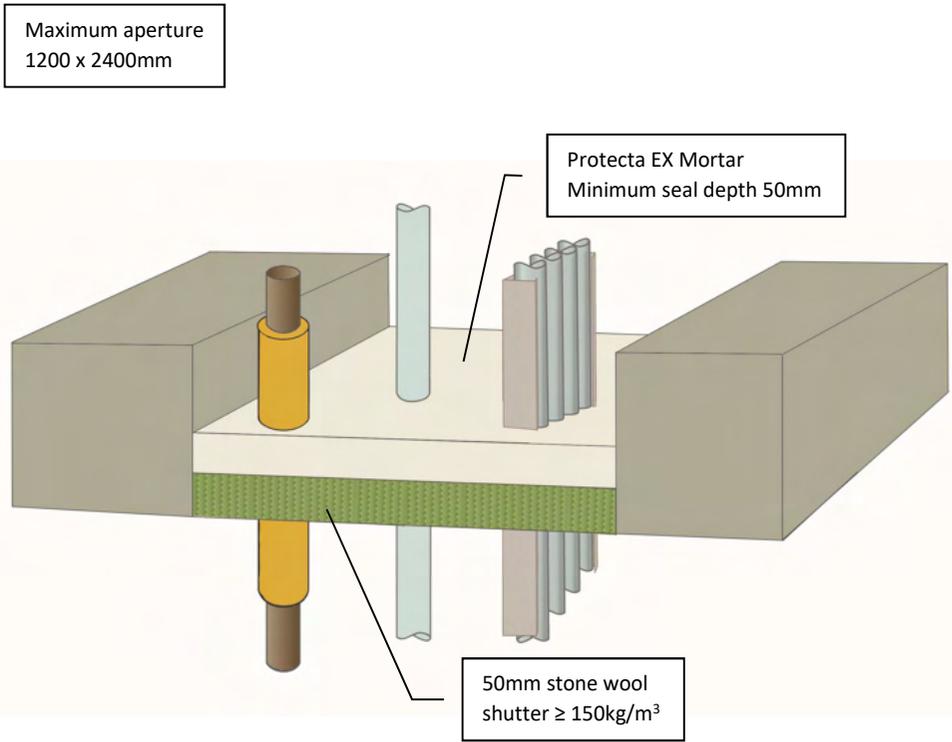
MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **48 dB**

List of services - Page 2 of 2

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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. 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
6. 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).
7. 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.



Minimum separations and limitations
 An aperture can include several services, and they may also be different. The minimum permitted separation between adjacent seals/apertures is 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.



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/m ³

- 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**
- EMICODE EC 1^{PLUS} – Complies
 - BREEAM-NOR – Complies
 - DIBt – Complies
 - LEED – Complies

Durability
 Z₂ - Intended for use in internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.

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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>

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Scale: NTS	Drawn by & date: K.B. 21/9/21
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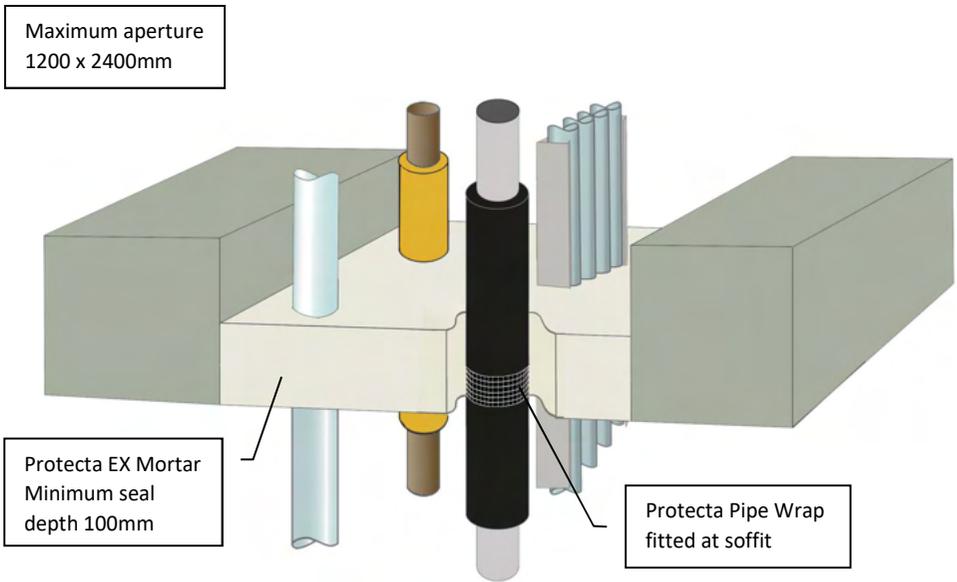
MIXED SERVICE APERTUREFire Classification **E 120**Sound Reduction **48 dB**

List of services - Page 2 of 2

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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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).
7. 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.



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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

MIXED SERVICE APERTURE

Fire Classification **EI 60**

Sound Reduction **48 dB**

Installation details - Page 1 of 4

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

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

- EMICODE EC 1^{PLUS} – Complies
- BREEAM-NOR – Complies
- DIBt – Complies
- LEED – Complies

Durability

Z₂ - Intended for use in internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.



ETA 21/0071

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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>

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NTS

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MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **48 dB**

List of services - Page 2 of 4

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	-
	≤ Ø12mm per pipe	-	9mm thick continuous elastomeric or phenolic	C/C	2 layers of 50mm wide soffit side
	≤ Ø54mm per pipe	-	13 - 25mm thick continuous elastomeric or 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	-
	≤ 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	-

MIXED SERVICE APERTUREFire Classification **EI 60**Sound Reduction **48 dB**

List of services - Page 3 of 4

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
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 APERTUREFire Classification **EI 60**Sound Reduction **48 dB**

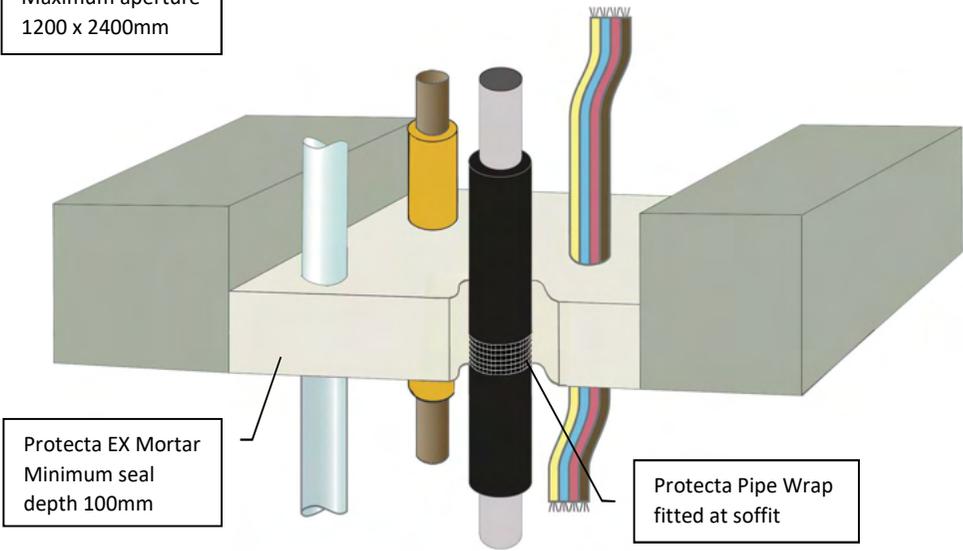
List of services - Page 4 of 4

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 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
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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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).
7. 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



Protecta EX Mortar
Minimum seal
depth 100mm

Protecta Pipe Wrap
fitted at soffit

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 on size up to 1500mm x1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

MIXED SERVICE APERTURE

Fire Classification **EI 120**

Sound Reduction **48 dB**

Installation details - Page 1 of 4

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

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

- EMICODE EC 1^{PLUS} – Complies
- BREEAM-NOR – Complies
- DIBt – Complies
- LEED – Complies

Durability

Z₂ - Intended for use in internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.



ETA 21/0071



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MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 2 of 4

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	-
Copper pipes	≤ Ø219mm per pipe	-	≥ 30mm thick x 100cm long stone wool ≥ 80 kg/m ³ both sides	C/U	-
	≤ 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	-	20 - 80mm thick continuous stone wool ≥ 80kg/m ³	C/C	-
Alupex pipes	≤ Ø54mm per pipe	-	≥ 20mm thick x 100cm long stone wool ≥ 80 kg/m ³ both sides	C/C	-
	≤ Ø20mm per pipe	-	None	C/C	-
	≤ Ø16mm per pipe	-	9mm 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	-	

MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 3 of 4

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
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 APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

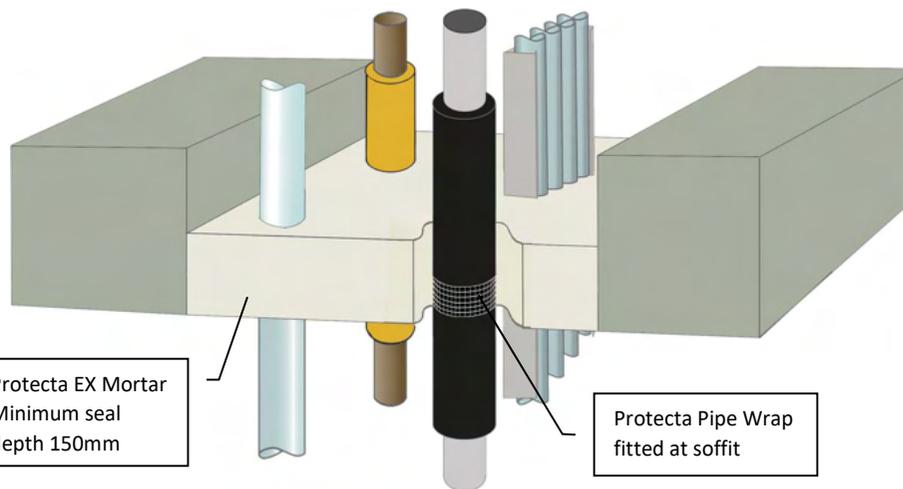
List of services - Page 4 of 4

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 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

Installation Instructions

1. Ensure the faces of the aperture opening are free of dust and any other contaminants. The faces may be moistened for better adhesion.
2. Bare metal passing through the seal must be protected against corrosion using a suitable primer/protection system.
3. The seal can be positioned to either side of the construction or anywhere in between.
4. 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.
5. Install a shutter board to achieve the required thickness of mortar. Make sure that this achieves a very tight seal.
6. 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).
7. 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



Protecta EX Mortar
Minimum seal
depth 150mm

Protecta Pipe Wrap
fitted at soffit

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 on size up to 1500mm x 1000mm (no failure), 4.85kN on sizes up to 1200mm 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 200mm. Services should be a minimum of 30mm from seal edges. Services within the 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. The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.

MIXED SERVICE APERTURE

Fire Classification **EI 120**

Sound Reduction **48 dB**

Installation details - Page 1 of 5

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.

Indoor air comfort test results

- EMICODE EC 1^{PLUS} – Complies
- BREEAM-NOR – Complies
- DIBt – Complies
- LEED – Complies

Durability

Z₂ - Intended for use in internal conditions with humidity classes other than Z₁, excluding temperatures below 0 °C.



ETA 21/0071



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>

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NTS

K.B. 21/9/21

MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 2 of 5

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	-
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	-	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	-	9mm 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	-

MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 3 of 5

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	

MIXED SERVICE APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 4 of 5

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
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 APERTUREFire Classification **EI 120**Sound Reduction **48 dB**

List of services - Page 5 of 5

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 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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