

TECHNICAL HANDBOOK

Fire stopping of linear seals

1st edition August 2020



Foreword

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 write these handbooks 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 26 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

Handbook editor & CEO of Polyseam

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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 to be fire protected and the construction type. This can be simplified by saying that where there are small gaps below 30mm a sealant is normally used and for larger gaps the board, coating and mortar products are used. These solutions are given in general in the following table, 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 a linear seal in a floor with gap widths below 30mm



Typical sample of a linear seal surrounding a fire rated door

Product Selector - Linear Seals

Properties	Construction	Seal Size	Product
Normal gaps	Walls and floors	Up to 30mm wide	Protecta FR Acrylic
Normal gaps with high movement/moisture			Protecta FR IPT
Doors and glass; frames of timber/steel/alu.	Walls and floors		Protecta FR Acrylic
Wide gaps	Walls	Up to 1,200mm wide	Protecta FR Board
	Floors	Up to 800mm wide	Protecta EX Mortar
Wide gaps with high movement/moisture	Walls and floors	Up to 120mm wide	Protecta FR Coating

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.



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

In most European countries, there is a demand that the fire classification should include both integrity E and insulation I. However, if the fire seal is in an area where no combustible material are close by, and no combustible materials are likely to be placed 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.

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.

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.

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 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 the Protecta FR IPT sealant. For larger seals you can use Protecta FR Coating, or EX Mortar with Protecta Waterproofer on top.

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

A: No, that is not allowed. Polyseam has conducted separate tests for timber walls and floors.

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.

FAQ's

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.

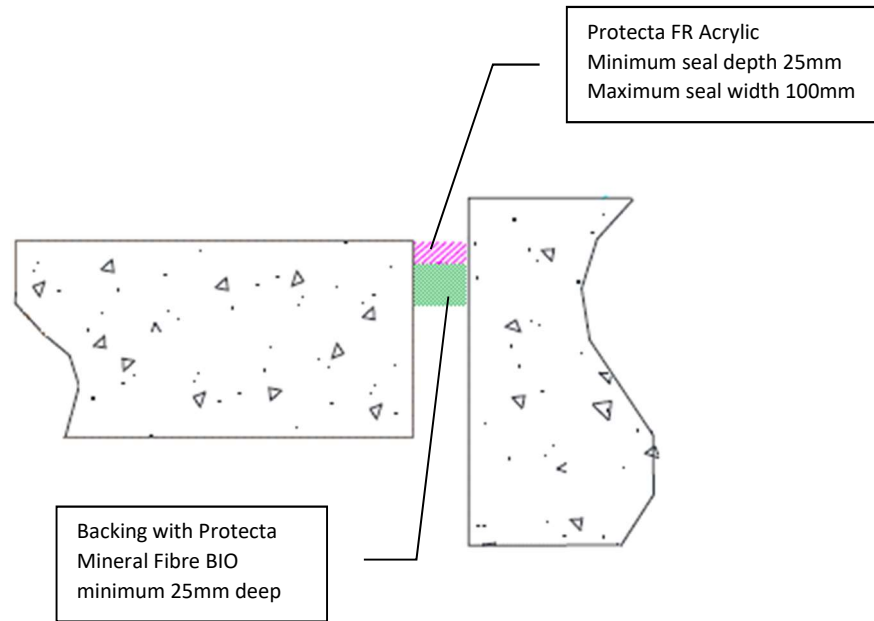
Appendix I

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Linear seal solutions in floors

Installation Instructions

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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 rated linear seals in rigid floors or between floors and walls
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 sided top face position	EI 180 & E 180
Sound reduction (seal only)	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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For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

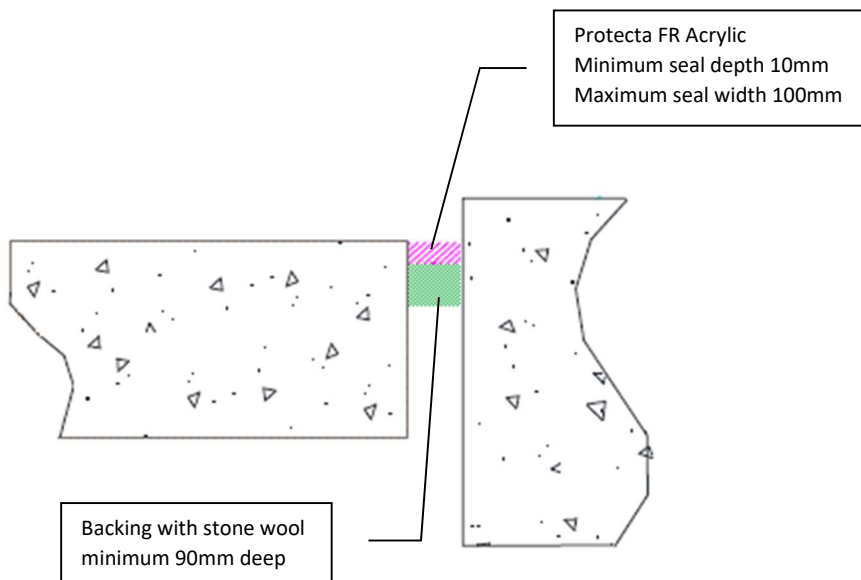
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Client:

Job Title:

Products Protecta FR Acrylic
Stone wool

Application Fire rated linear seals in rigid floors or between floors and walls

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

Fire & Sound classification

Single sided top face position
EI 240 & E 240

Sound reduction (minimum 12mm depth)
62 dB

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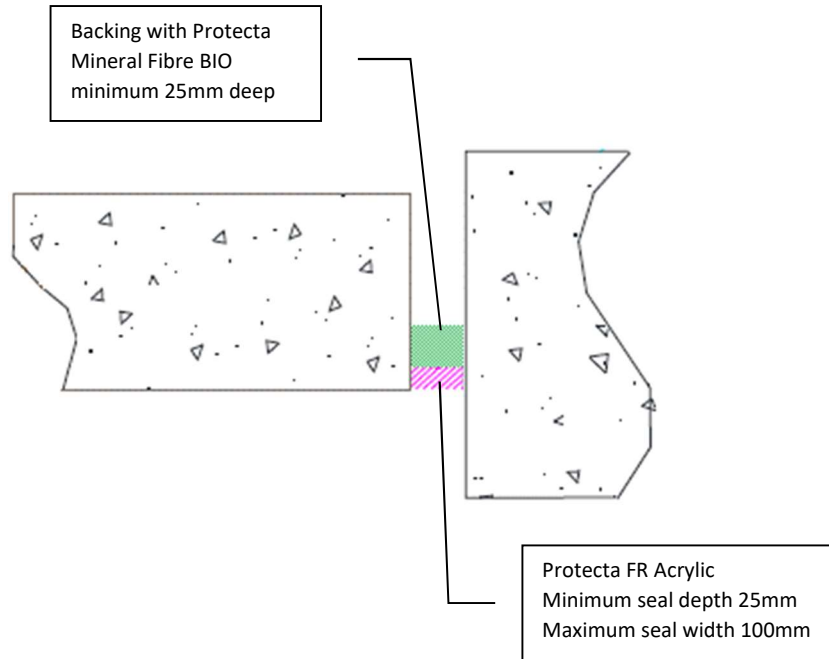
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Client:

Job Title:

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Application	Fire rated linear seals in rigid floors or between floors and walls
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 sided soffit face position	EI 60 & E 120
Sound reduction (seal only)	62 dB

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Tel: +44 (0) 148 4421036
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ETA 13/0879 & 18/0904

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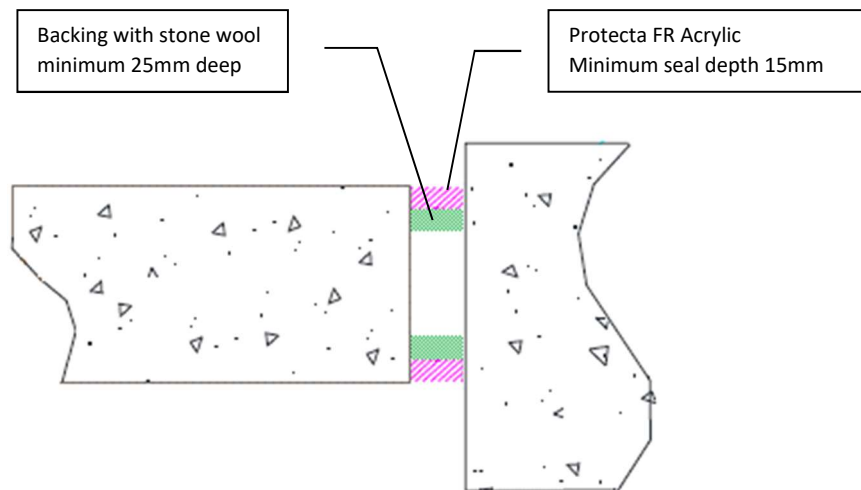
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Client:

Job Title:

Products Protecta FR Acrylic
Stone wool

Application Fire rated linear seals in rigid floors or between floors and walls

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

Fire & Sound classification

Up to 100mm wide double sided seal
EI 120 & E 120

Up to 30mm wide double sided seal
EI 240 & E 240

Sound reduction (seal only) 62 dB

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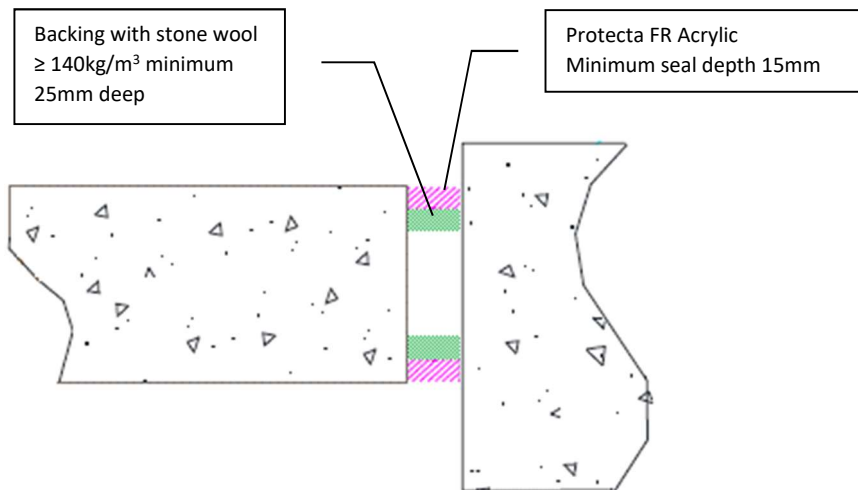
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Fire & Sound classification

Up to 100mm wide double sided seal
EI 180 & E 180

Sound reduction (seal only) 62 dB

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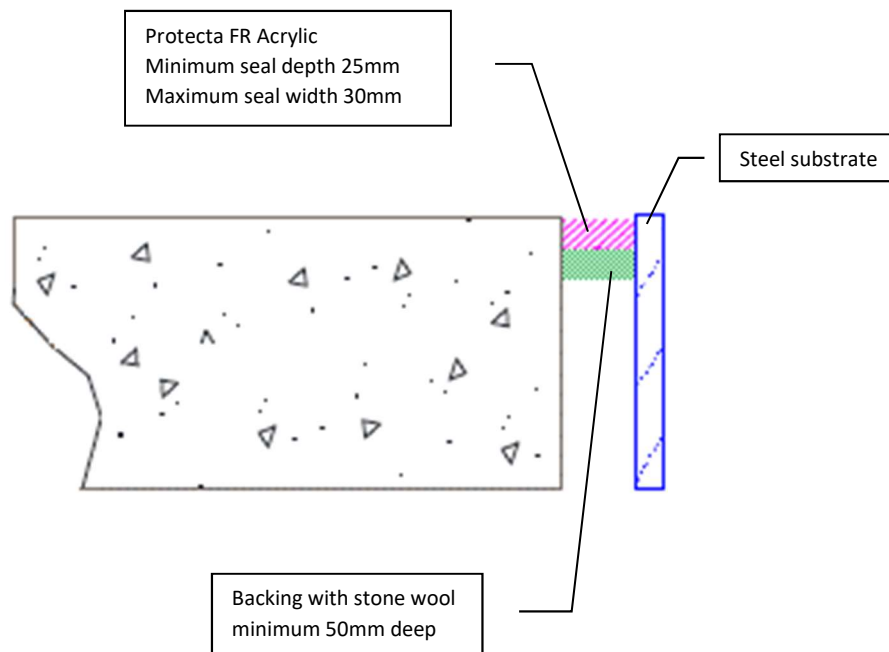
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Signed and approved:

Client:

Job Title:

Products Protecta FR Acrylic
Stone wool

Application Fire rated linear seals in rigid floors against steel

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

Fire & Sound classification

Single sided top face position against steel substrate on one or both sides of the fire seal
EI 30 & E 240

Single sided top face position against steel frame classified to EI 60 or higher
EI 60 & E 240

Sound reduction (seal only)
62 dB

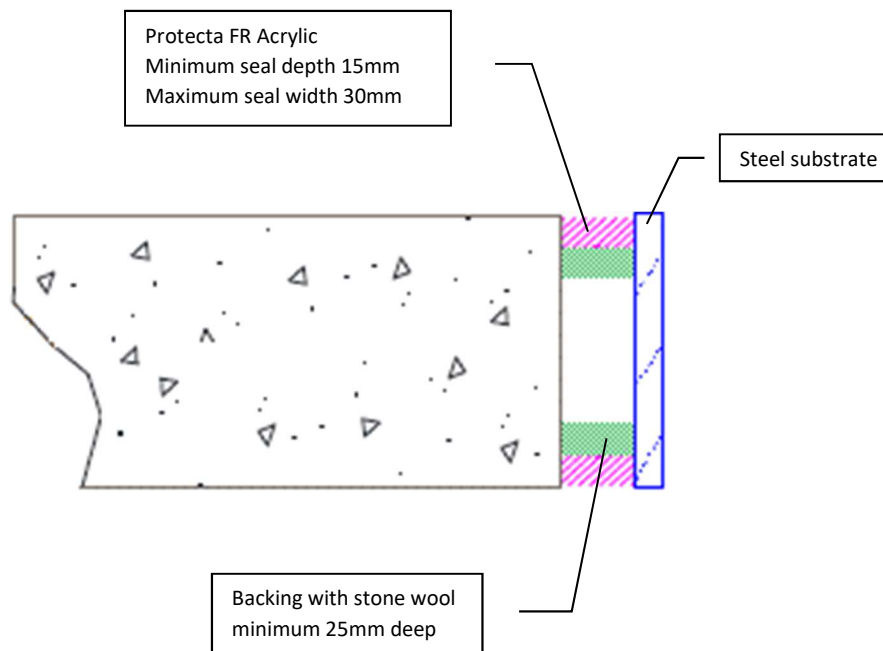
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Application Fire rated linear seals in rigid floors against steel

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Fire & Sound classification

Double sided seal against steel substrate on one or both sides of the fire seal
EI 45 & E 240

Double sided seal against steel frame classified to EI 120 or higher
EI 120 & E 240

Sound reduction (seal only)
62 dB

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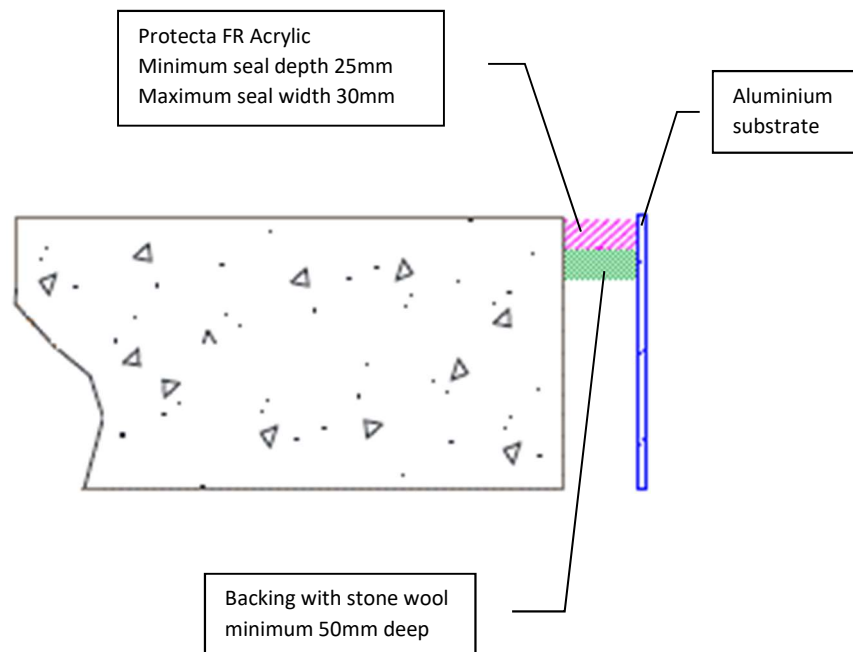
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Installation Instructions

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 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 13/0879 & 18/0904

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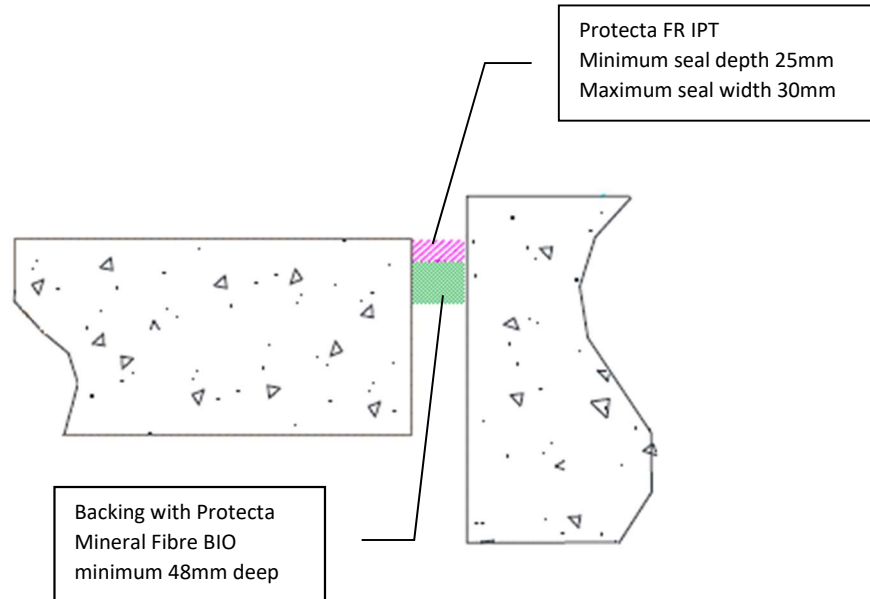
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta FR Acrylic Stone wool
Application	Fire rated linear seals in rigid floors against aluminium
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 sided top face position against aluminium substrate on one side of the fire seal EI 20 & E 180	
Single sided top face position against aluminium frame classified to EI 60 or higher EI 60 & E 180	
Sound reduction (seal only) 62 dB	
	
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Scale: NTS	Drawn by: K.B

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR IPT
Protecta Mineral Fibre BIO

Application Fire rated, water proof and movement linear seals in rigid floors or between floors and walls

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

Fire, Sealant & Sound classification

Single sided top face position
EI 180 & E 240

Classification CE
Facade (interior) 25HM
Sanitary joints XS1

Sound reduction (seal only)
62 dB

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



ETA 18/0902

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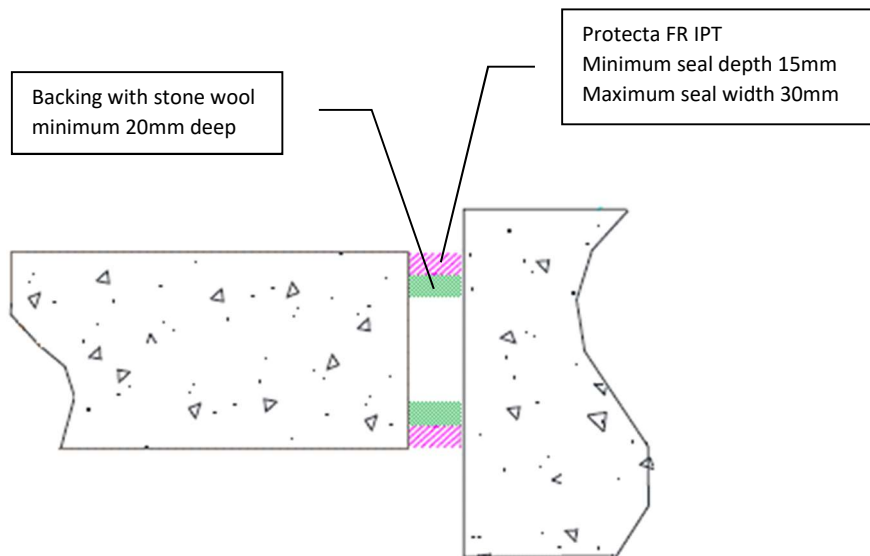
Signed and approved:

Sheet size: **A4** Drawn date & no: 24/5/18

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

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR IPT
Stone wool

Application Fire rated, water proof and movement linear seals in rigid floors or between floors and walls

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

Fire, Sealant & Sound classification

Double sided seal	EI 240 & E 240
Classification CE	Facade (interior) 25HM Sanitary joints XS1
Sound reduction (seal only)	62 dB

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



ETA 18/0902

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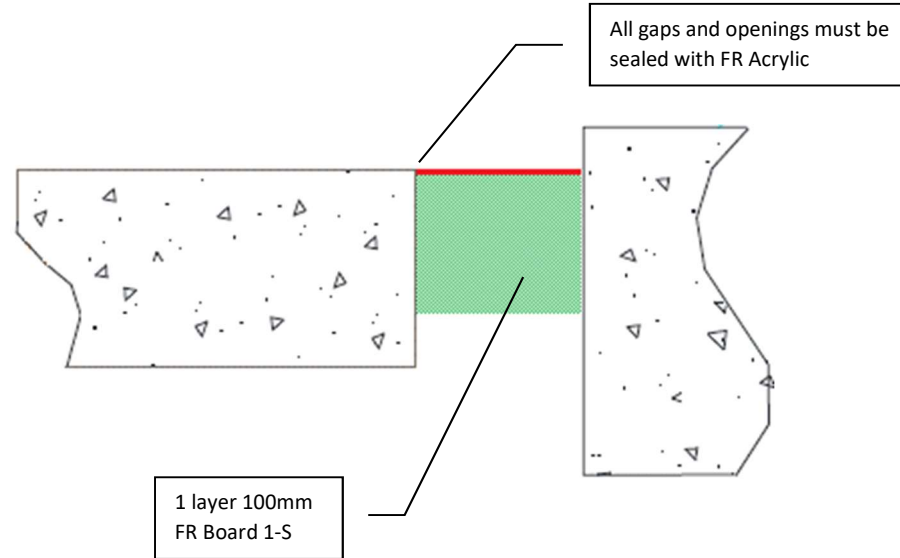
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Sheet size: **A4** Drawn date & no: 24/5/18

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the surrounding construction is free from all loose contaminants, dust and grease.
2. Cut the required board(s) to suit the linear seal width. 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 top face.
4. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals between floor slabs or between floor slab and wall

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

Fire & Sound classification

Up to 120mm wide seal friction fitted at top face position fully within the cavity
EI 180 & E 240

Sound reduction (seal only) N/A

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



ETA 13/0673 & 16/0717

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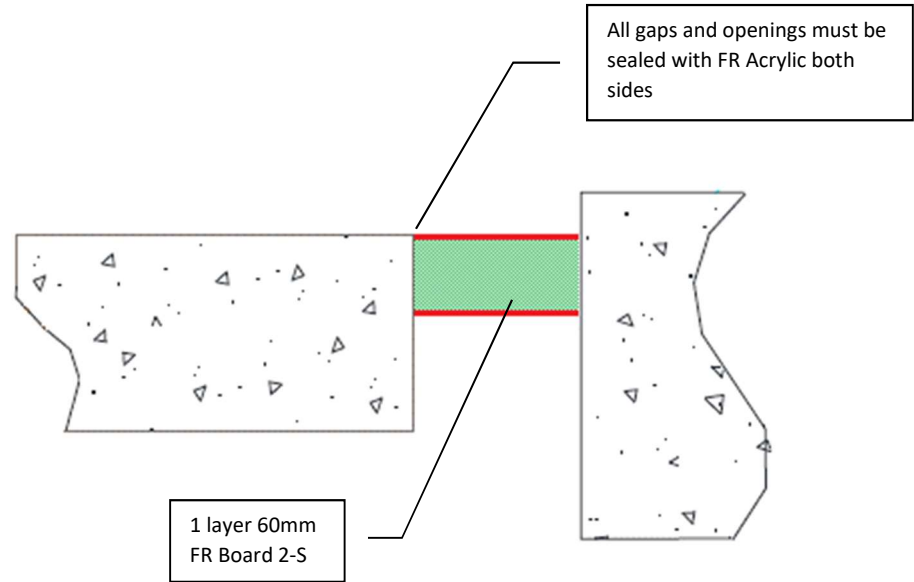
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Scale: **NTS** Drawn by: **K.B**

Installation Instructions

1. Before installing Protecta® FR Board ensure that the 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 linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals between floor slabs or between floor slab and wall

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

Fire & Sound classification

Up to 400mm wide seal friction fitted at any position fully within the cavity
EI 120 & E 240

Up to 800mm wide seal friction fitted at any position fully within the cavity
EI 90 & E 120

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 29 dB

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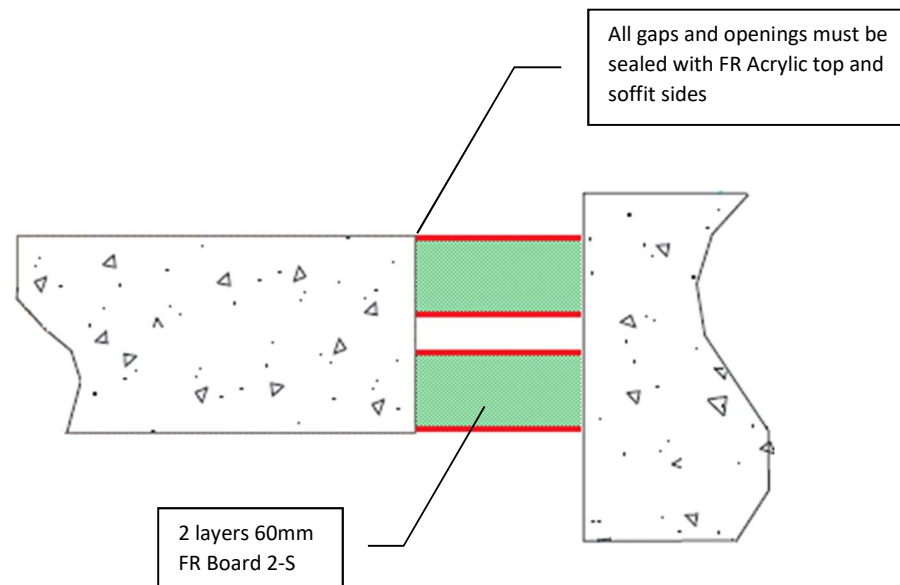
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Installation Instructions

1. Before installing Protecta® FR Board ensure that the 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 linear seal width. 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 top and soffit sides.
5. Protecta® FR Board can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals between floor slabs or between floor slab and wall

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

Fire & Sound classification

Up to 400mm wide seal friction fitted fully within the cavity
EI 180 & E 240

Up to 800mm wide seal friction fitted fully within the cavity
EI 120 & E 180

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 53 dB

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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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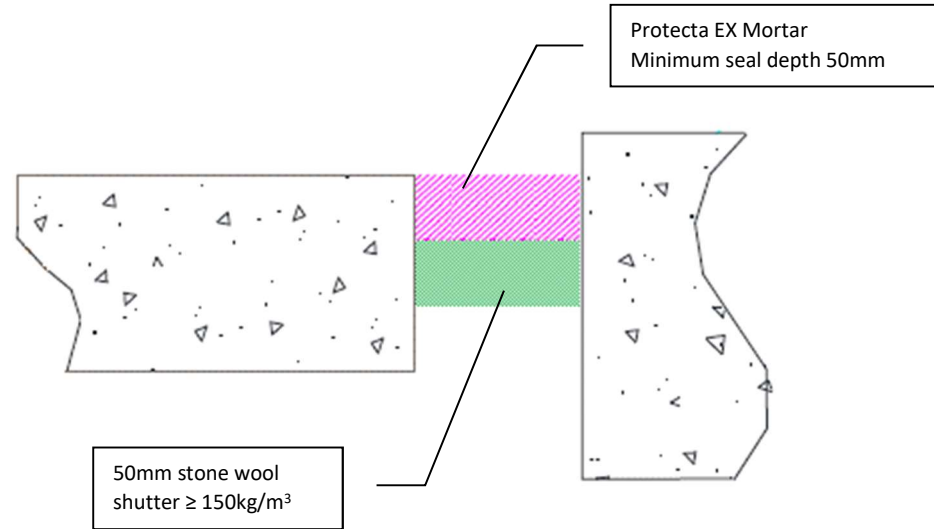
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Installation Instructions

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 in contact with 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, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab.
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 pour enough mortar to obtain the required consistency. Mix well to avoid lumps. Always add the mortar to the water, do not reverse this mixing process. For different mix ratios and drying times, please refer to the Technical Data Sheet.
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.



Client:

Job Title:

Products Protecta EX Mortar
Stone wool shutter

Application Fire rated linear seals between floor slabs or between floor slab and wall

Construction Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m³

Fire & Sound classification

Up to 800mm wide seal at any position fully within the cavity
EI 180 & E 180

Sound reduction (seal only)
64 dB

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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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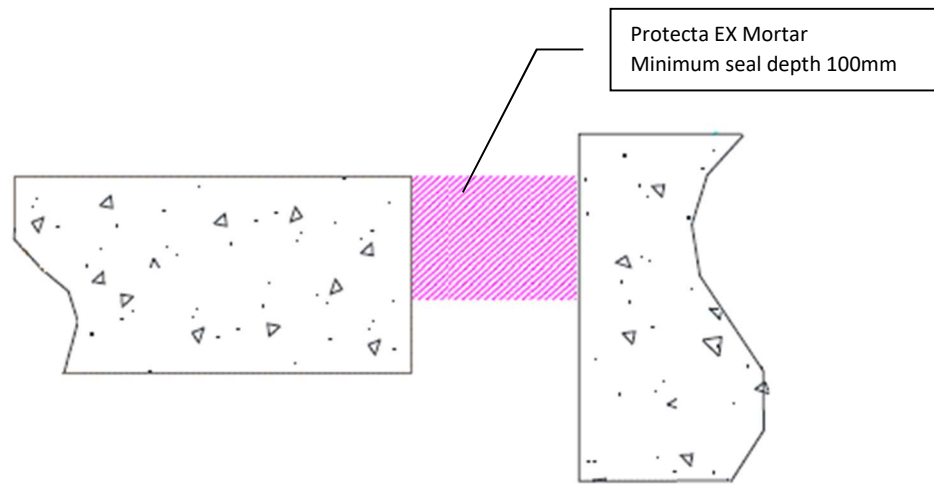
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Installation Instructions

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 in contact with 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 pour enough mortar to obtain the required consistency. Mix well to avoid lumps. Always add the mortar to the water, do not reverse this mixing process. For different mix ratios and drying times, please refer to the Technical Data Sheet.
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 up to 15kN.




ETA 13/0672

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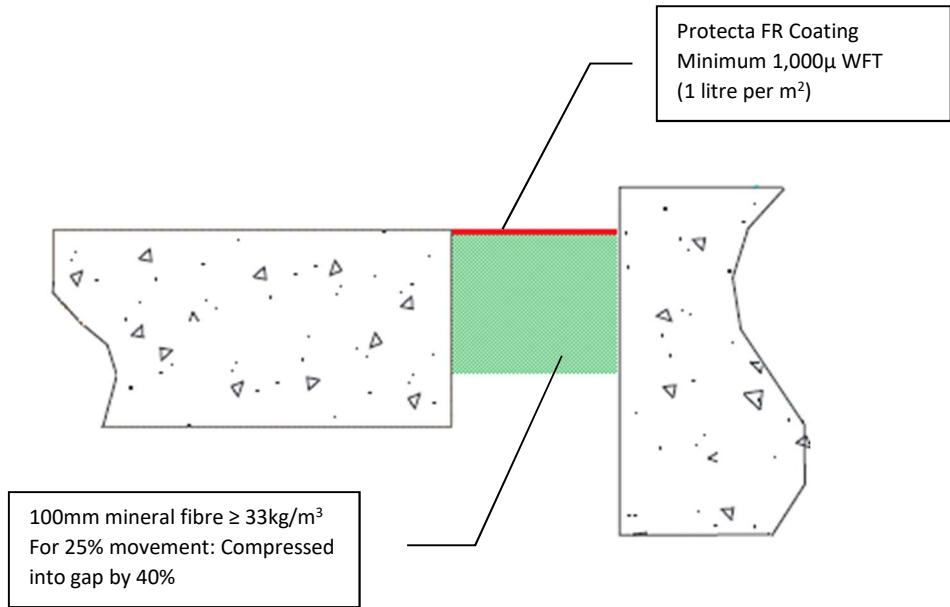
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Client:	
Job Title:	
Products	Protecta EX Mortar
Application	Fire rated and loadbearing linear seals between floor slabs or between floor slab and wall
Construction	Minimum floor thickness of 100 mm and comprise aerated concrete or concrete with a minimum density of 650kg/m ³
Fire & Sound classification	
Up to 800mm wide seal at any position fully within the cavity	
EI 240 & E 240	
Sound reduction (seal only)	
64 dB	
	
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NTS	K.B

Installation Instructions

1. Before installing the stonewool core, ensure that the surface of all surrounding constructions is free from all loose contaminants, dust and grease. The stonewool should be dry and sound, and any large loose pieces should be brushed off before spraying.
2. Friction fit the stonewool core into the seal.
3. Spray apply Protecta® FR Coating to the stonewool. Spraying pressures will depend on the type of pump and nozzle used approximately 1,700 to 2,300 psi using a 25 to 35 thou' tip. Apply the coating in smooth strokes and with the minimum of overspray to achieve an even film thickness and consistent drying across the stonewool.
4. The required wet film thickness (WFT) is usually achieved when the surface is to a satisfactory proper white finish when dry.
5. Overspray can increase drying times. Drying times will be dependent on film thickness, ambient temperature and humidity and may be reduced by using drying ovens and/or fans.
6. Protecta® FR Coating can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR Coating
Mineral fibre (stone wool)

Application Fire rated, moisture proof and movement linear seals in rigid floors or between floors and walls

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

Fire & Sound classification

Up to 120mm wide seal friction fitted at top face position within the cavity EI 180 & E 240

Movement Up to 25%

Durability Y₁ (intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain)

Sound reduction (seal only) N/A

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Huddersfield, West Yorkshire, HD1 6SB
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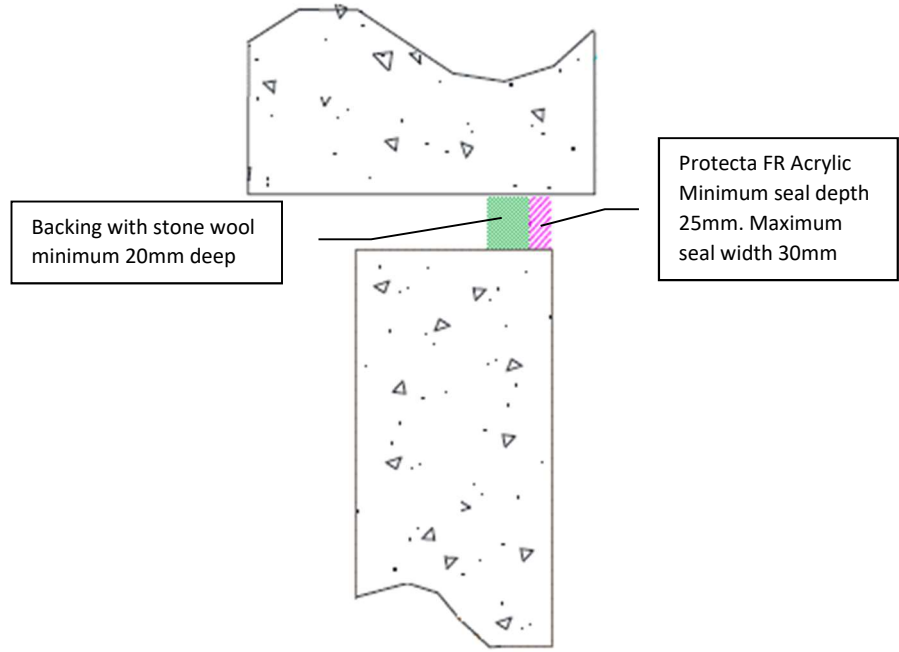
Appendix II

-

Linear seal solutions in rigid walls

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 rated linear seals in rigid walls or between wall and floor

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

Single sided horizontal seal EI 60 & E 240

Sound reduction (seal only) 62 dB

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



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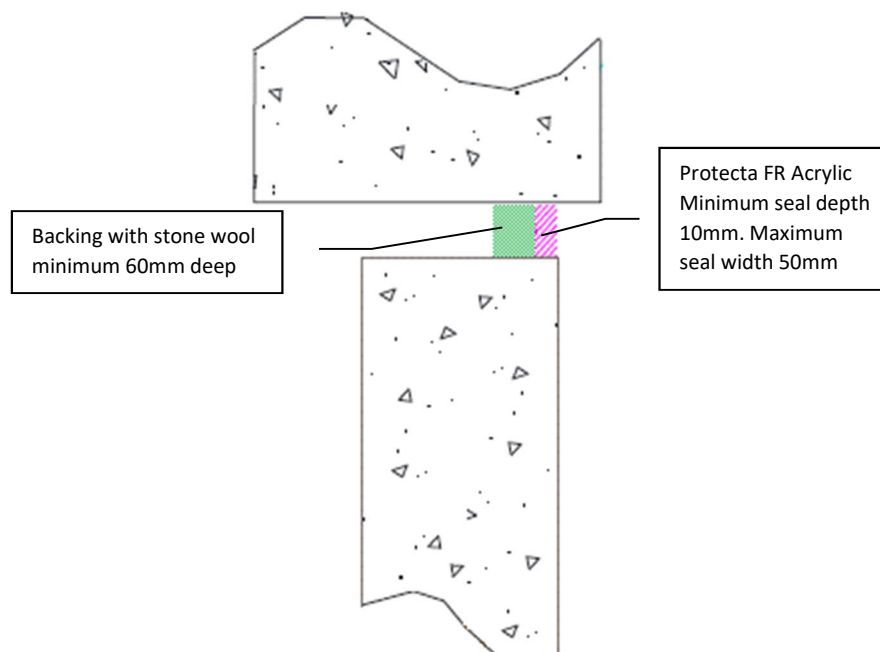
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Installation Instructions

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. 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 rated linear seals in rigid walls or between wall and floor

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

Single sided horizontal seal	EI 60 & E 240
Single sided vertical seal	EI 120 & E 120
Sound reduction (seal only)	62 dB

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Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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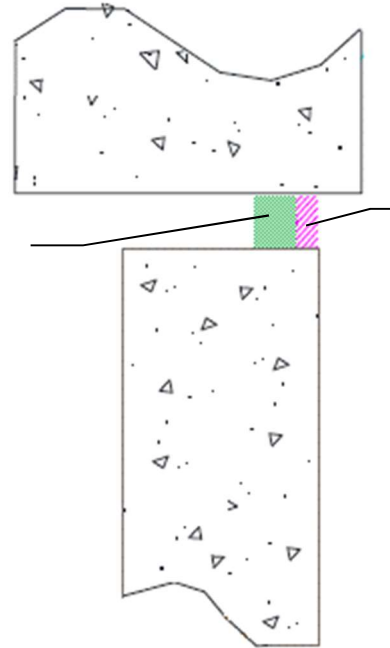
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Installation Instructions

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2. Where Protecta® FR Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Polyseam for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
3. When installing 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.

Backing with Protecta Mineral Fibre BIO minimum 48mm deep



Protecta FR Acrylic
Minimum seal depth 25mm. Maximum seal width 30mm

Client:

Job Title:

Products Protecta FR Acrylic
Protecta Mineral Fibre BIO

Application Fire rated linear seals in rigid walls or between wall and floor

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

Single sided horizontal seal
EI 120 & E 240

Sound reduction (seal only)
62 dB

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



ETA 13/0879 & 18/0904

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

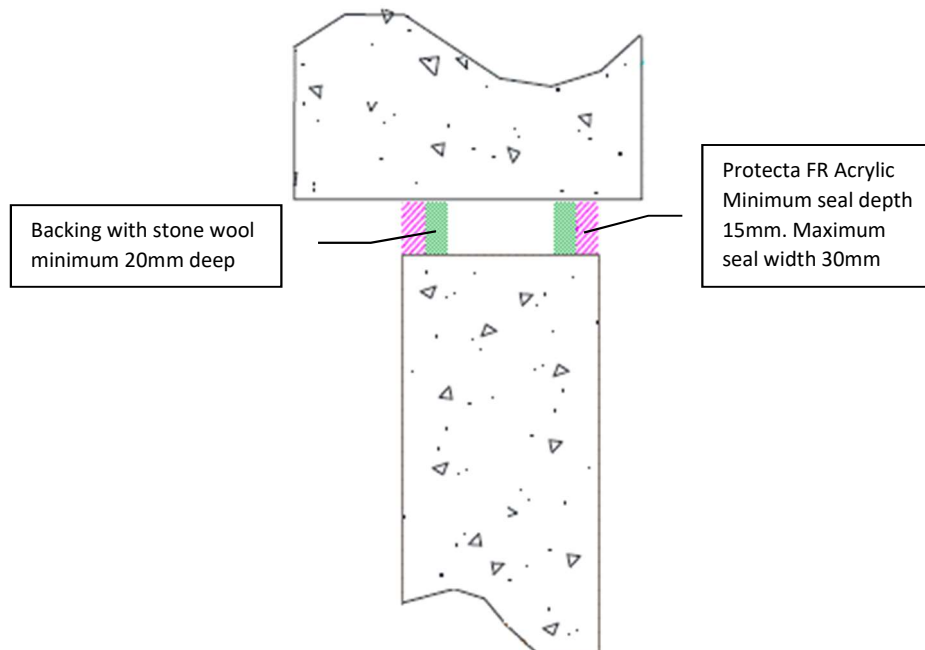
Signed and approved:

Sheet size: **A4** Drawn date & no: 24/5/18

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 rated linear seals in rigid walls or between wall and floor

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

Double sided in horizontal or vertical seals
EI 240 & E 240

Sound reduction (seal only)
62 dB

Protecta®
Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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ETA 13/0879 & 18/0904

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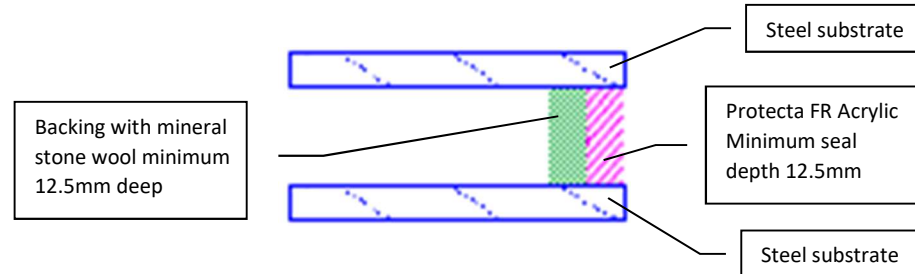
Signed and approved:

Sheet size: **A4** Drawn date & no: 24/5/18

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

Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all 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 rated linear seals in rigid walls between steel substrates

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

Single sided in horizontal and vertical seals with maximum seal width 30mm
EI 30 & E 120

Sound reduction (seal only) 62 dB

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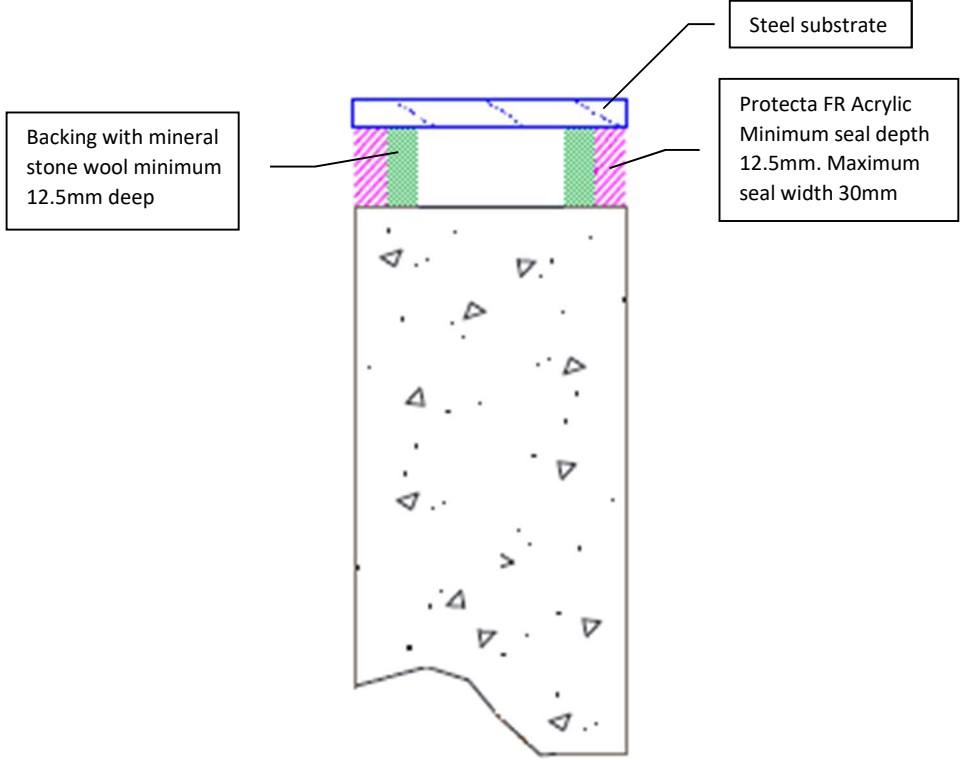
Signed and approved:

Sheet size: **A4** Drawn date & no: 28/7/20

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

Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all 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 rated linear seals in rigid walls against steel
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	
Both sides in horizontal seals against steel substrate	EI 45 & E 120
Both sides in vertical seals against steel substrate	EI 30 & E 120
Both sides in horizontal and vertical seals against steel frame classified to EI 60 or higher	EI 60 & E 120
Sound reduction (seal only)	62 dB

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Huddersfield, West Yorkshire, HD1 6SB
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Signed and approved:

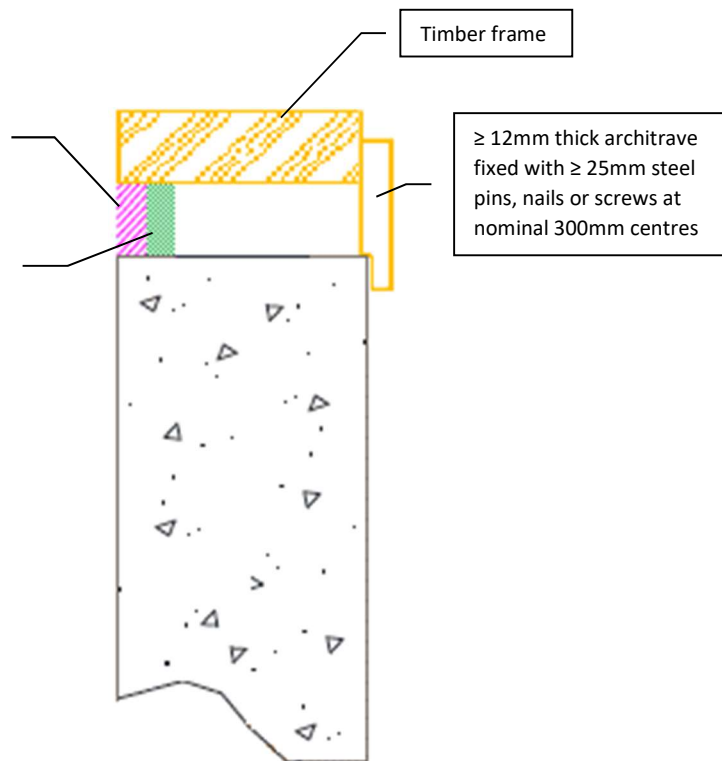
Sheet size: A4	Drawn date & no: 28/7/20
Scale: NTS	Drawn by: K.B

Installation Instructions

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

Protecta FR Acrylic
Minimum seal
depth 12.5mm

Backing with mineral
stone wool minimum
12.5mm deep



Client:

Job Title:

Products Protecta FR Acrylic
Stone wool

Application Fire rated linear seals in rigid walls against timber

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

Single sided in horizontal and vertical seals with maximum seal width 30mm
EI 60 & E 60

Sound reduction (seal only)
62 dB

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Huddersfield, West Yorkshire, HD1 6SB
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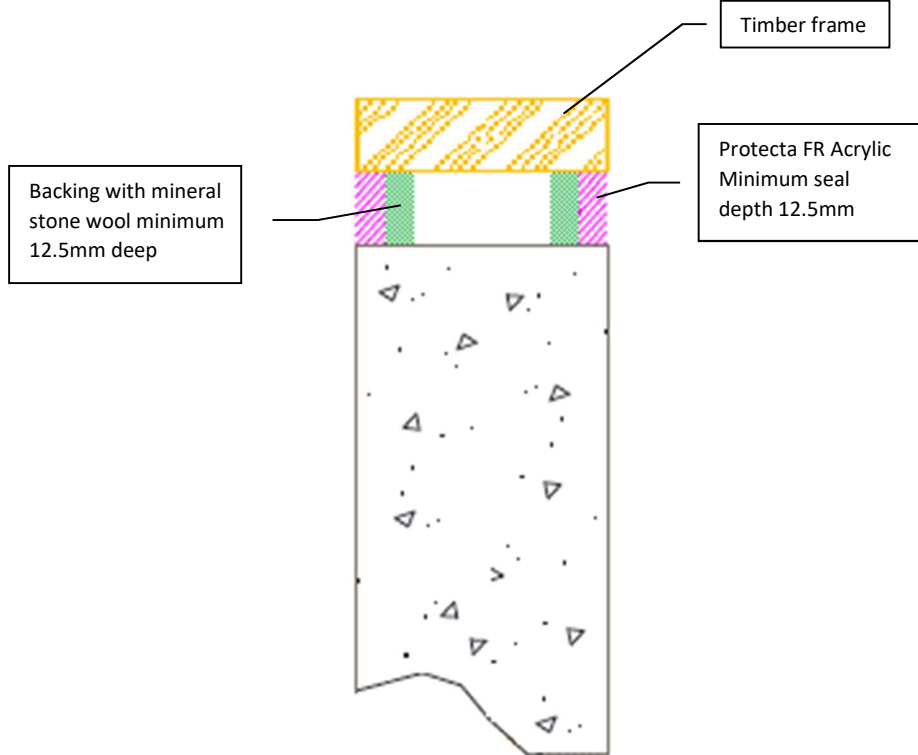
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Scale: **NTS** Drawn by: **K.B**

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 Stone wool
Application	Fire rated linear seals in rigid walls against timber
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	
Both sides in horizontal and vertical seals with maximum seal width 30mm	EI 60 & E 90
Sound reduction (seal only)	62 dB

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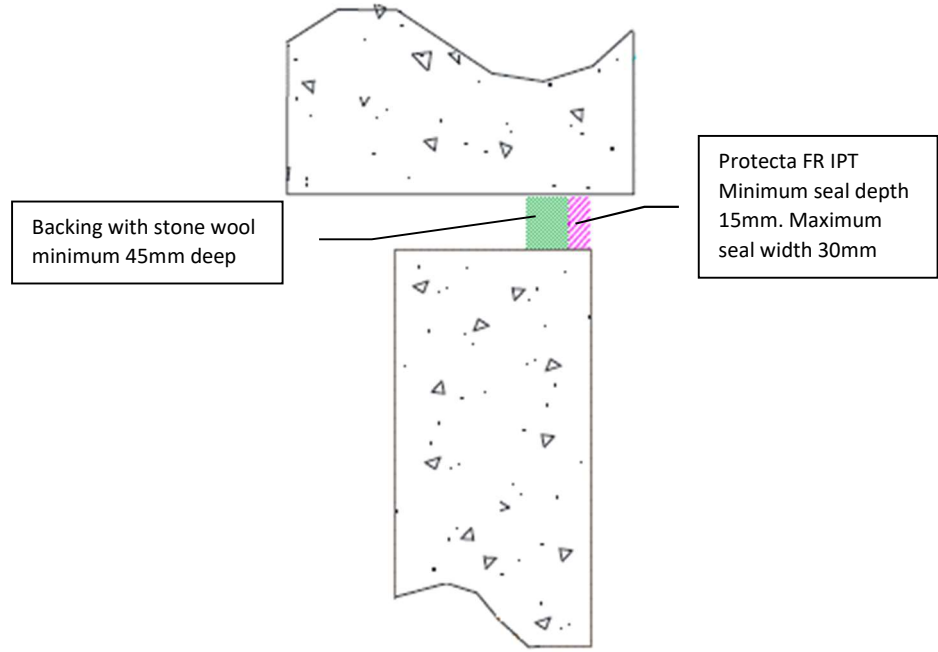
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 28/7/20
Scale: NTS	Drawn by: K.B

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR IPT
Stone wool

Application Fire rated, water proof and movement linear seals in rigid walls or between wall and floor

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

Single sided in horizontal seals
EI 60 & E 240

Classification CE
Facade (interior) 25HM
Sanitary joints XS1

Sound reduction (seal only)
62 dB

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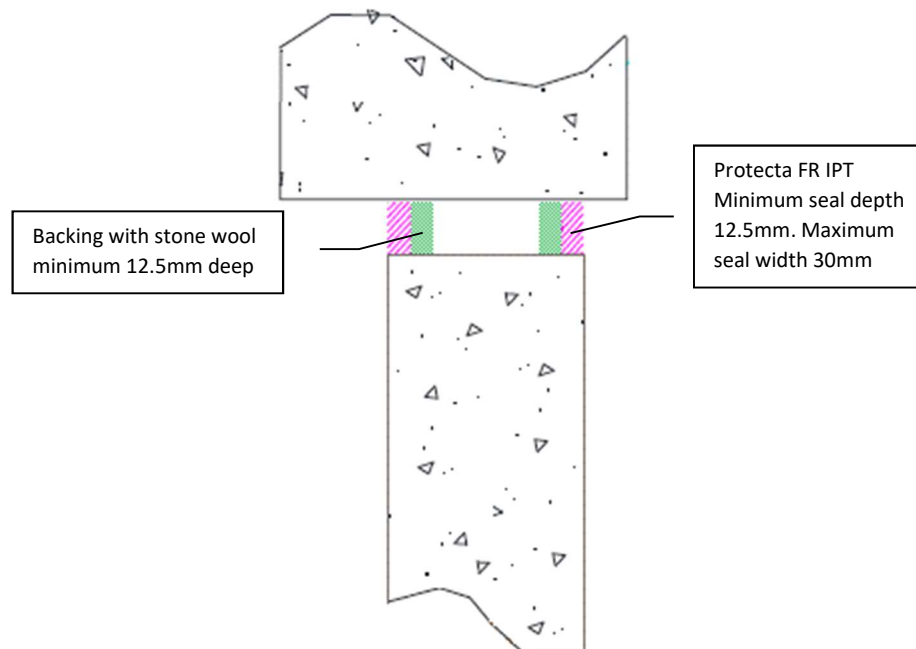
Signed and approved:

Sheet size: **A4** Drawn date & no: 9/7/19

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

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR IPT
Stone wool

Application Fire rated, water proof and movement linear seals in rigid walls or between wall and floor

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, Sealant & Sound classification

Double sided horizontal or vertical seals
E1 120 & E 120

Classification CE Facade (interior) 25HM
Sanitary joints XS1

Sound reduction (seal only) 62 dB

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



ETA 18/0902

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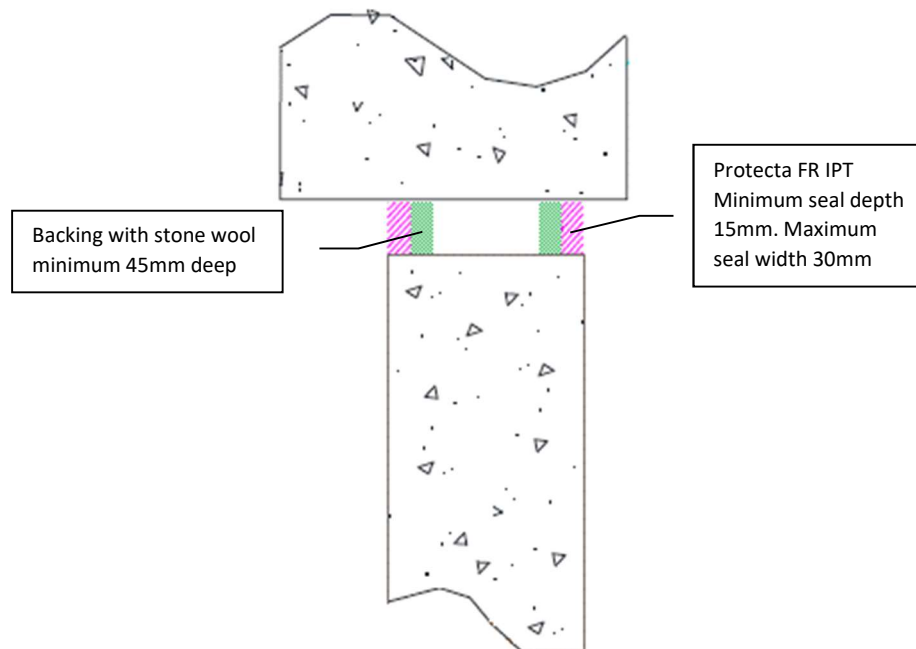
Signed and approved:

Sheet size: **A4** Drawn date & no: 9/7/19

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

Installation Instructions

6. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
7. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
8. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
9. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
10. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR IPT
Stone wool

Application Fire rated, water proof and movement linear seals in rigid walls or between wall and floor

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, Sealant & Sound classification

Double sided horizontal seals
EI 240 & E 240

Classification CE Facade (interior) 25HM
Sanitary joints XS1

Sound reduction (seal only)
62 dB

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Huddersfield, West Yorkshire, HD1 6SB
Tel: +44 (0) 148 4421036
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ETA 18/0902

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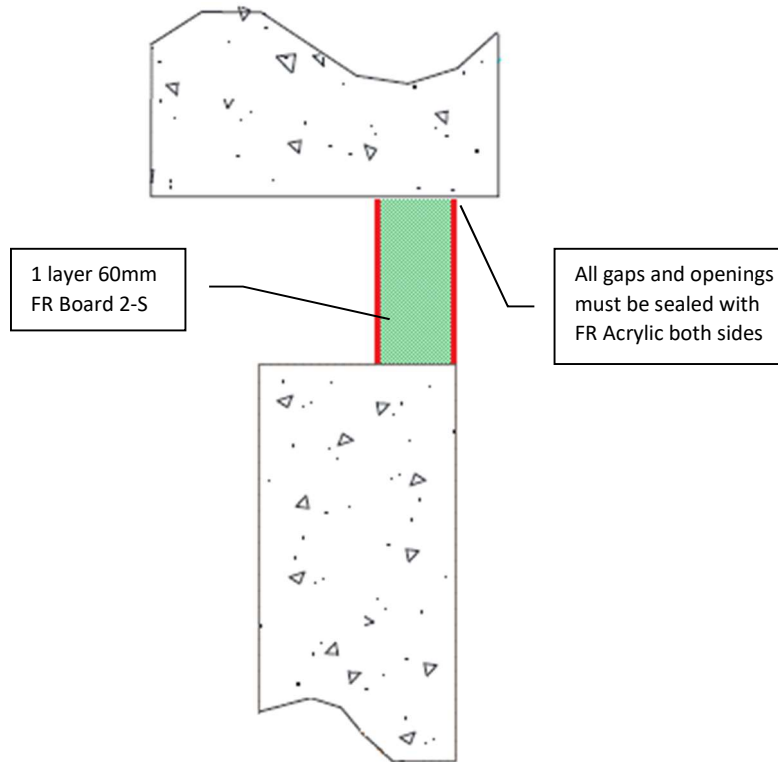
Signed and approved:

Sheet size: **A4** Drawn date & no: 9/7/19

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the 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 linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals in rigid walls or between wall and floor

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

Up to 1200mm wide horizontal seals friction fitted at any position fully within the cavity
EI 90 & E 120

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 29 dB

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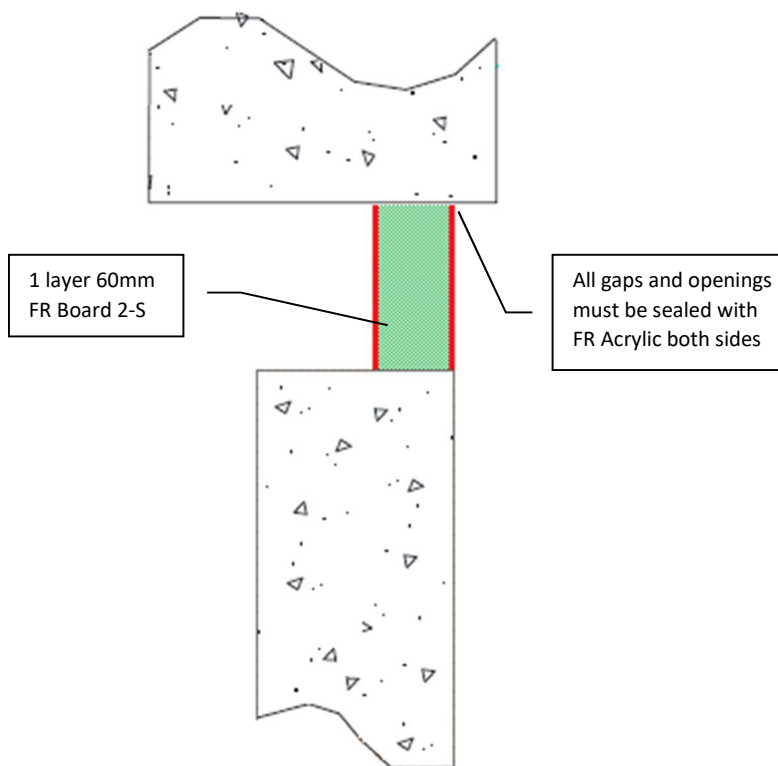
Signed and approved:

Sheet size: **A4** Drawn date & no: 28/7/20

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

Installation Instructions

1. Before installing Protecta® FR Board ensure that the 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 linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals in rigid walls or between wall and floor

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

Up to 1200mm wide horizontal seals friction fitted at any position fully within the cavity
EI 90 & E 240

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 29 dB

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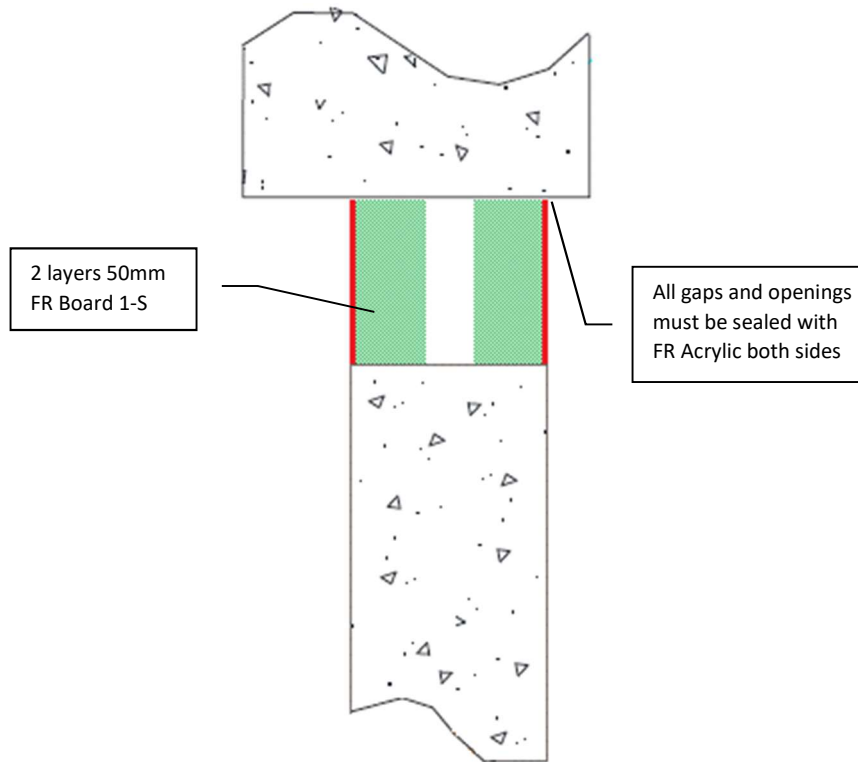
Signed and approved:

Sheet size: **A4** Drawn date & no: 24/5/18

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 linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals in rigid walls or between wall and floor

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

Up to 1200mm wide horizontal seals friction fitted at any position fully within the cavity
EI 120 & E 120

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 53 dB

Polyseam Ltd, 15 St Andrews Road,
Huddersfield, West Yorkshire, HD1 6SB
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ETA 13/0673 & 16/0717

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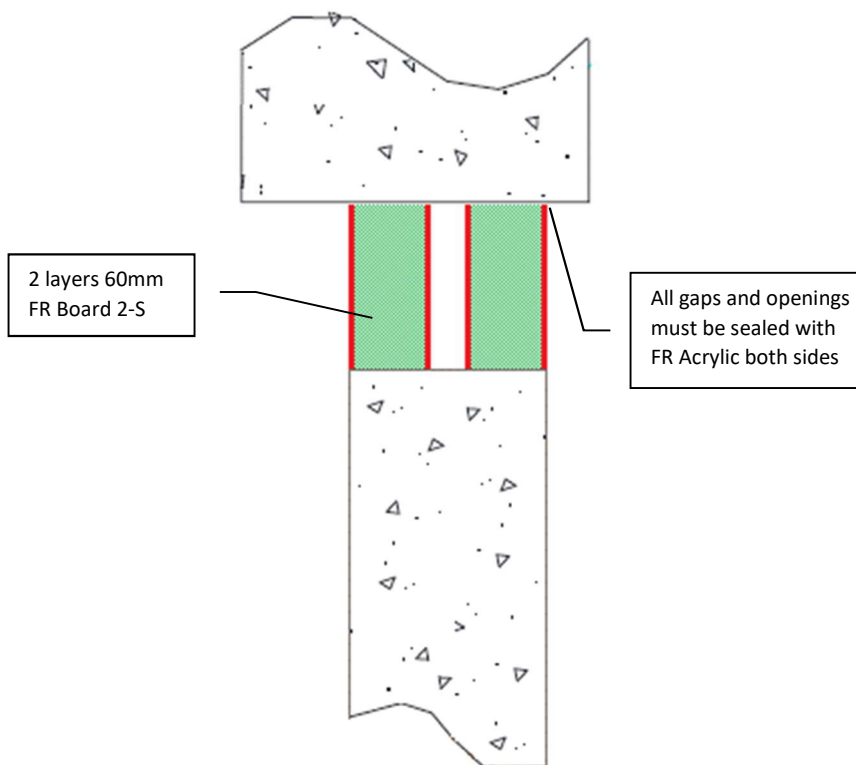
Signed and approved:

Sheet size: **A4** Drawn date & no: 24/5/18

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 linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals in rigid walls or between wall and floor

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

Up to 1200mm wide horizontal seals flush with the surface on both sides fully within the cavity
EI 180 & E 240

Sound reduction
Seal up to 120mm wide Rw 55 dB
Seal above 120mm width Rw 53 dB

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



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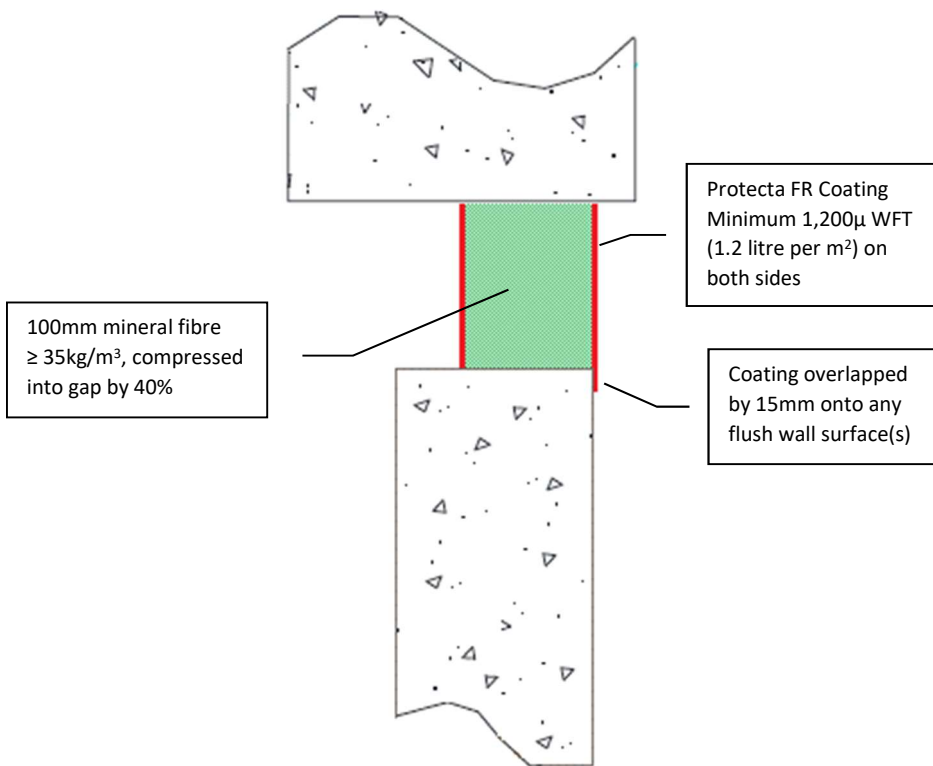
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Sheet size: **A4** Drawn date & no: 24/5/18

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

Installation Instructions

1. Before installing the stonewool core, ensure that the surface of all surrounding constructions is free from all loose contaminants, dust and grease. The stonewool should be dry and sound, and any large loose pieces should be brushed off before spraying.
2. Friction fit the stonewool core into the seal.
3. Spray apply Protecta® FR Coating to the stonewool. Spraying pressures will depend on the type of pump and nozzle used approximately 1,700 to 2,300 psi using a 25 to 35 thou' tip. Apply the coating in smooth strokes and with the minimum of overspray to achieve an even film thickness and consistent drying across the stonewool.
4. The required wet film thickness (WFT) is usually achieved when the surface is to a satisfactory proper white finish when dry.
5. Overspray can increase drying times. Drying times will be dependent on film thickness, ambient temperature and humidity and may be reduced by using drying ovens and/or fans.
6. Protecta® FR Coating can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products Protecta FR Coating
Mineral fibre (stone wool)

Application Fire rated, moisture proof and movement linear seals in rigid walls or between wall and floor

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
Up to 120mm wide horizontal seals friction fitted at any position fully within the cavity
EI 180 & E 240

Movement Up to 25%

Durability Y₁ (intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain)

Sound reduction (seal only) Rw 55 dB

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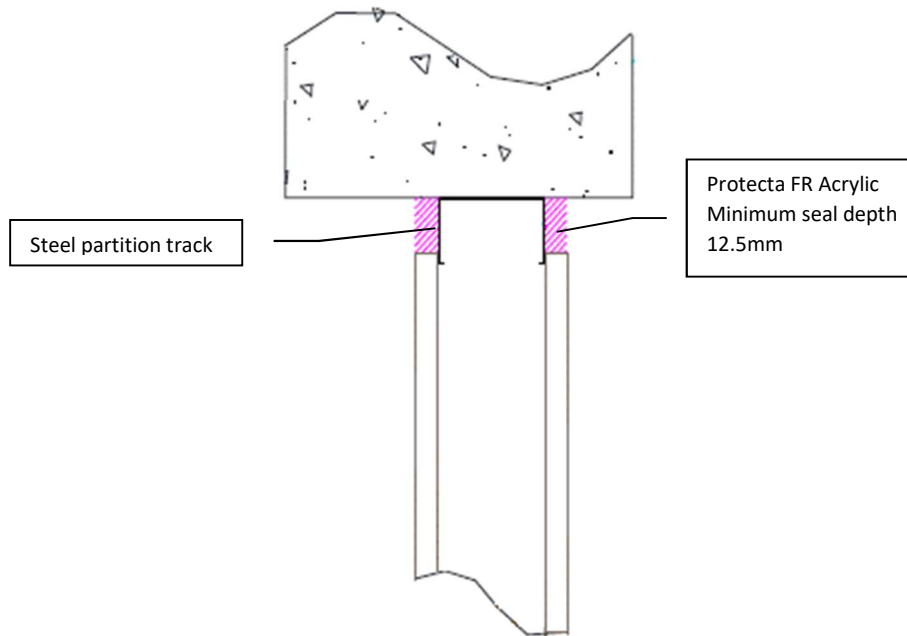
Appendix III

-

Linear seal solutions in flexible walls

Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all 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. 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 rated linear seals 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	
Both sides in horizontal seals with maximum seal width 25mm	EI 45 & E 60
Both sides in vertical seals with maximum seal width 15mm	EI 45 & E 60
Sound reduction (seal only)	62 dB

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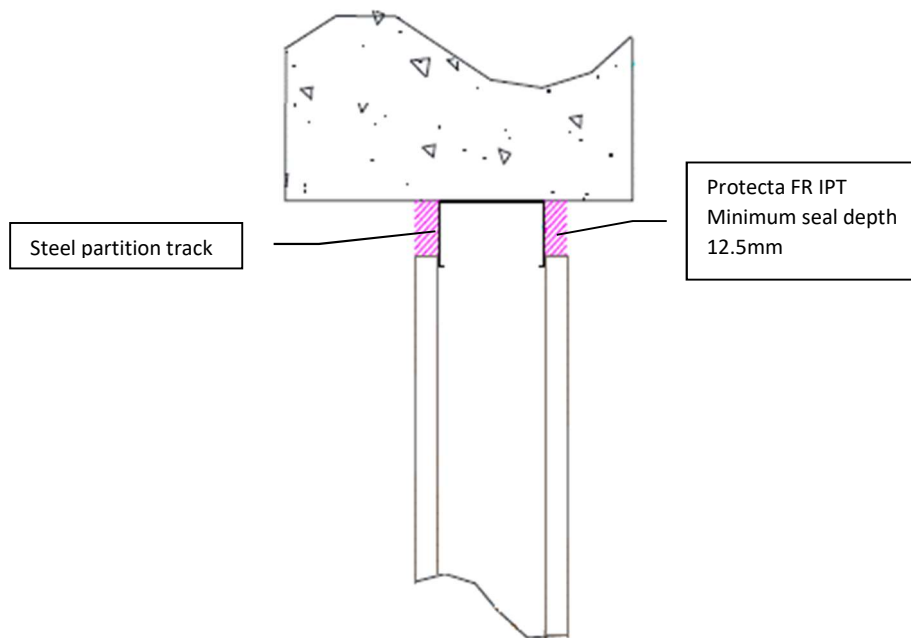
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products	Protecta FR IPT
Application	Fire rated, water proof and movement linear seals 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	
Both sides in horizontal seals with maximum seal width 25mm	EI 45 & E 60
Classification CE	Facade (interior) 25HM Sanitary joints XS1
Sound reduction (seal only)	62 dB



ETA 18/0902

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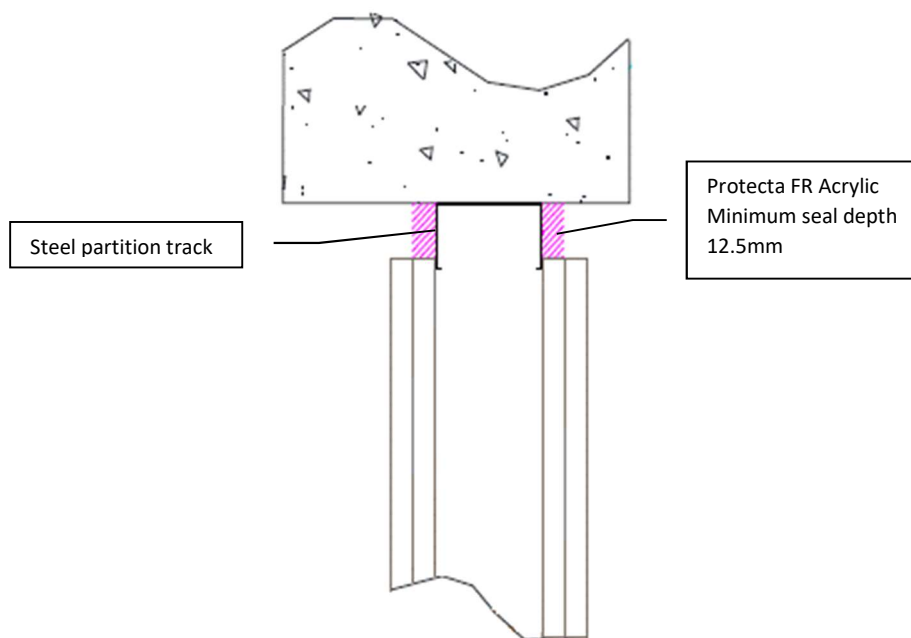
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Sheet size: **A4** Drawn date & no: 2/7/19

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

Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all 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. 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 rated linear seals 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	
Both sides in horizontal seals with maximum seal width 25mm	EI 90 & E 90
Both sides in vertical seals with maximum seal width 15mm	EI 90 & E 90
Sound reduction (seal only)	62 dB

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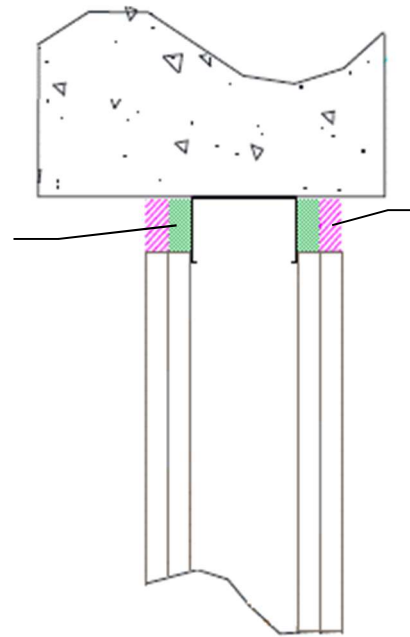
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Scale: NTS	Drawn by: K.B

Installation Instructions

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3. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Protecta® FR Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
4. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
5. Fill the gap or joint with Protecta® FR Acrylic to the required depth.
6. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

Backing with mineral stone wool minimum 12.5mm deep against steel partition track



Protecta FR Acrylic
Minimum seal depth 12.5mm

Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire rated linear seals 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	
Both sides in horizontal seals with maximum seal width 30mm	EI 120 & E 120
Both sides in vertical seals with maximum seal width 15mm	EI 90 & E 90
Sound reduction (seal only)	62 dB

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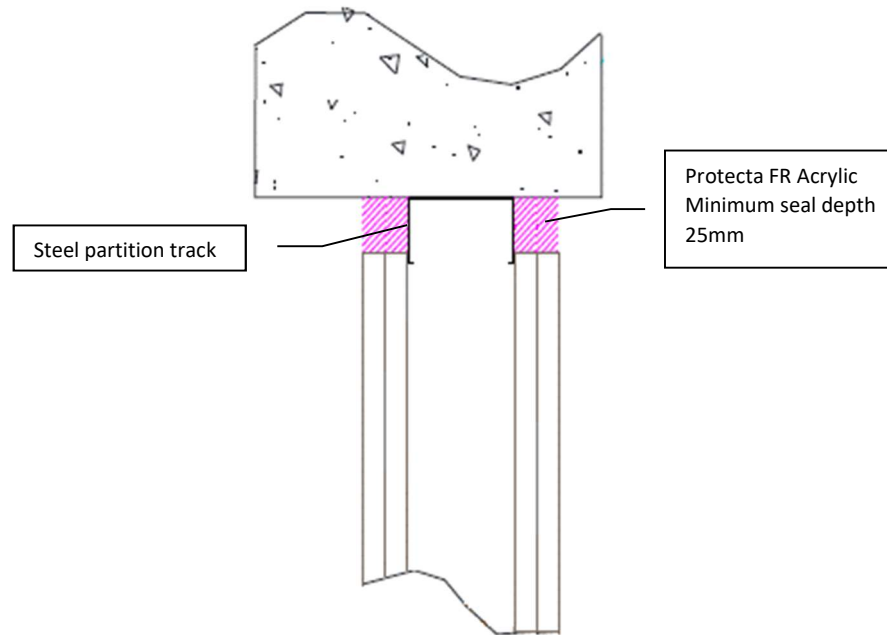
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5. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
6. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products	Protecta FR Acrylic
Application	Fire rated linear seals 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	
Both sides in horizontal seals with maximum seal width 30mm	EI 120 & E 120
Both sides in vertical seals with maximum seal width 15mm	EI 90 & E 90
Sound reduction (seal only)	62 dB

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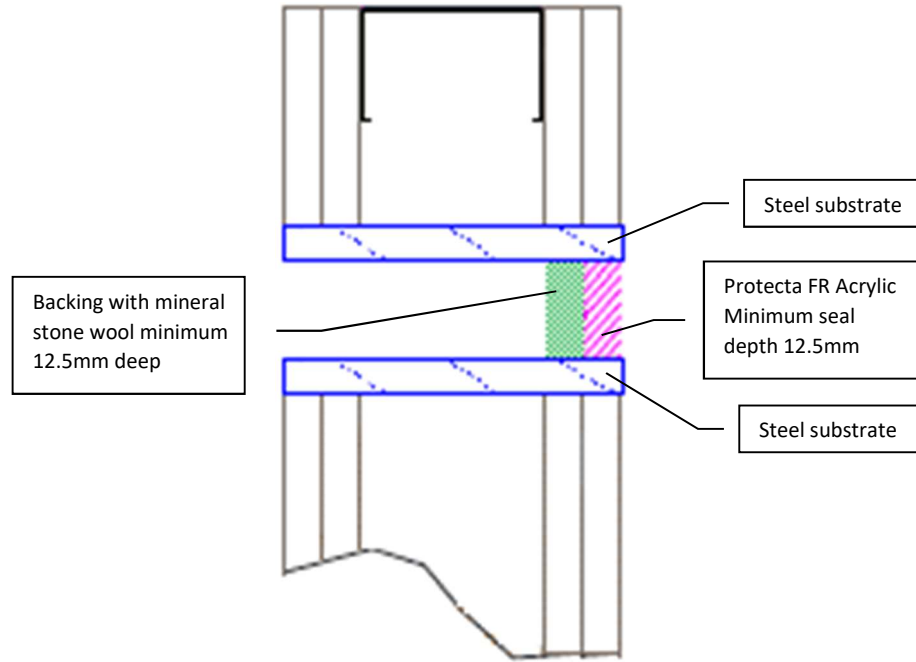
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3. As Protecta® FR Acrylic is water based, in cases where corrosion protection is a problem; some metals may require a barrier between the sealant and the metal surface prior to this installation.
4. When installing any backing material, cut this slightly 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 rated linear seals in flexible walls against steel
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	
Single sided in horizontal and vertical seals with maximum seal width 30mm	EI 30 & E 120
Sound reduction (seal only)	62 dB

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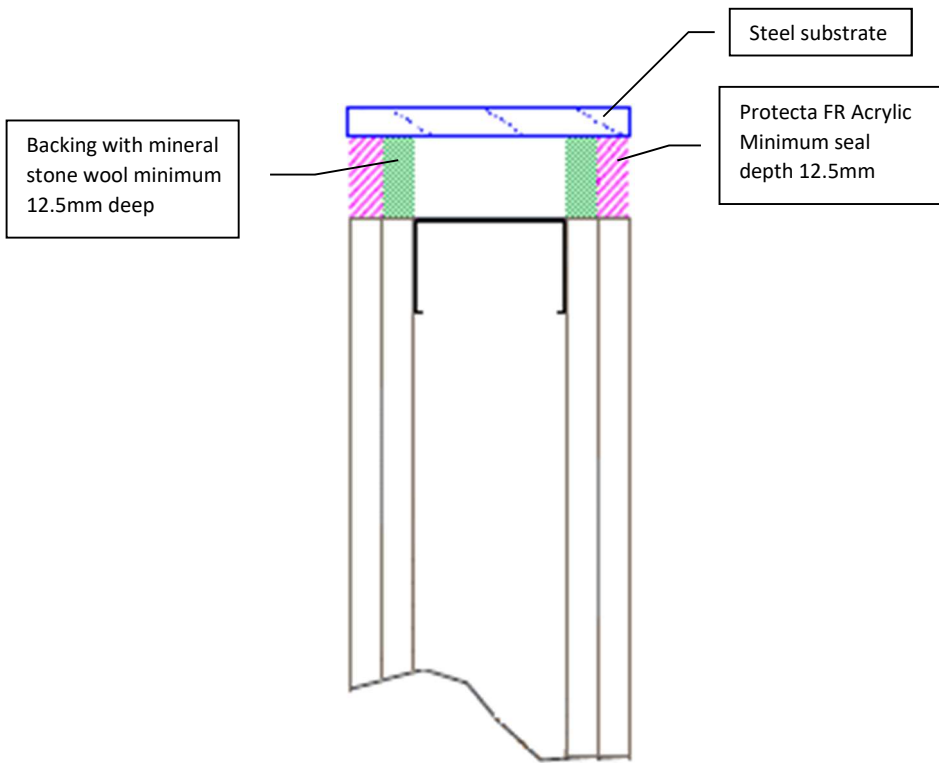
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Scale: NTS	Drawn by: K.B

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 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 rated linear seals in flexible walls against steel
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	
Both sides in horizontal seals against steel substrate with maximum seal width 30mm	EI 45 & E 120
Both sides in vertical seals against steel substrate with maximum seal width 30mm	EI 30 & E 120
Both sides in horizontal and vertical seals against steel frame classified to EI 60 or higher with maximum seal width 30mm	EI 60 & E 120
Sound reduction (seal only)	62 dB

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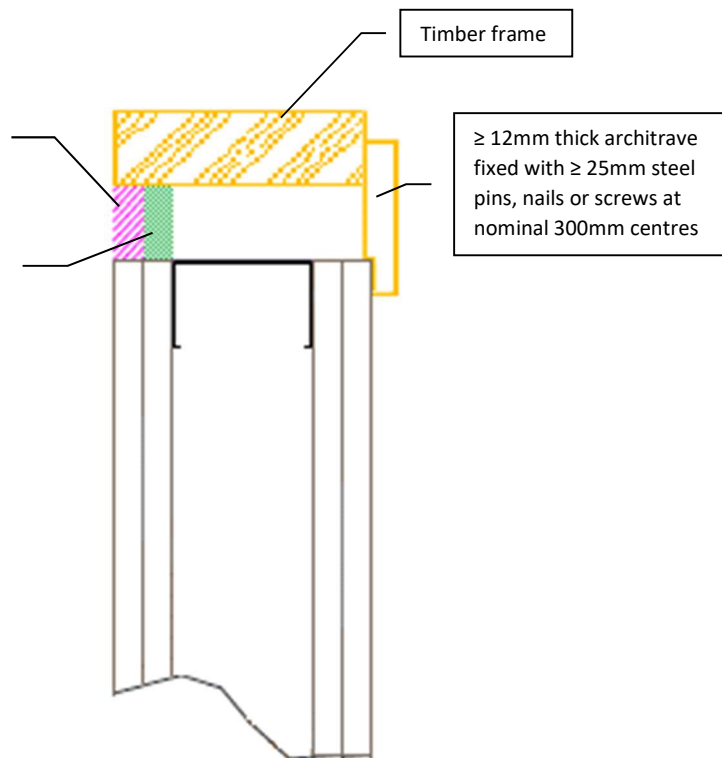
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7. Protecta® FR Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

Protecta FR Acrylic
Minimum seal
depth 12.5mm

Backing with mineral
stone wool minimum
12.5mm deep



Client:

Job Title:

Products	Protecta FR Acrylic Stone wool
Application	Fire rated linear seals in flexible walls against timber
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	
Single sided in horizontal and vertical seals with maximum seal width 30mm	EI 60 & E 60
Sound reduction (seal only)	62 dB

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ETA 13/0879 & 18/0904

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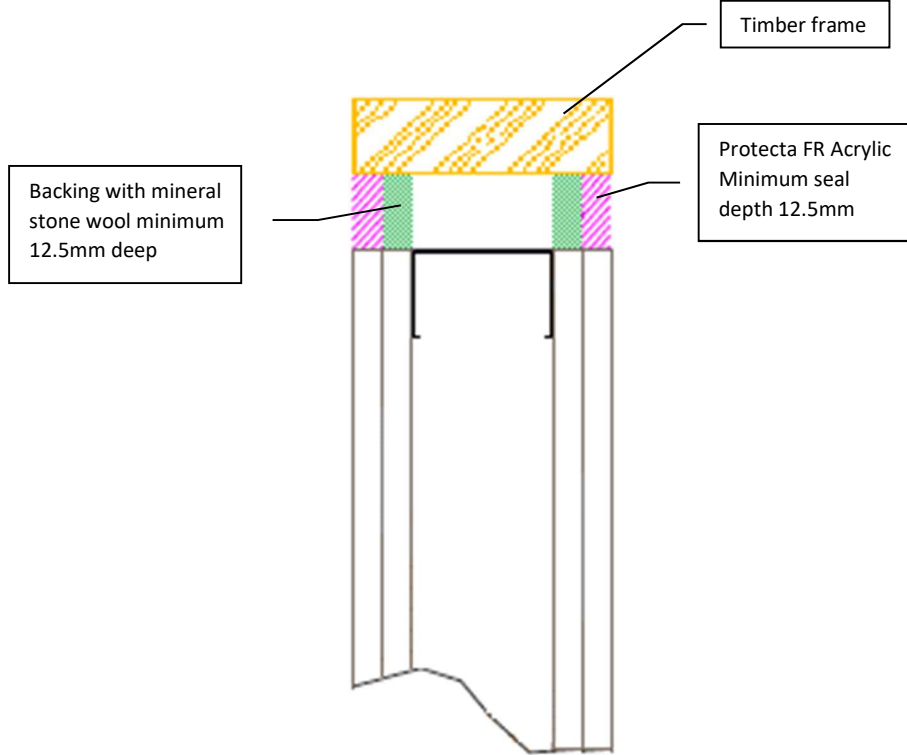
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Signed and approved:

Sheet size: A4	Drawn date & no: 28/7/20
Scale: NTS	Drawn by: K.B

Installation Instructions

1. Before installing Protecta® FR Acrylic ensure that the surface of all 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.
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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 rated linear seals in flexible walls against timber
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	
Both sides in horizontal and vertical seals with maximum seal width 30mm	
	EI 60 & E 90
Sound reduction (seal only)	
	62 dB

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



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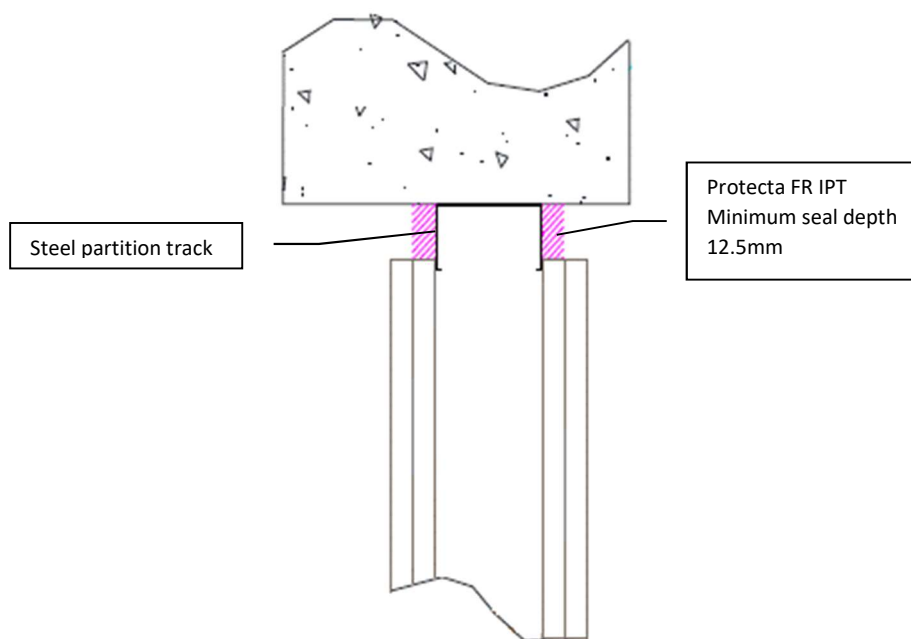
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

Signed and approved:

Sheet size: A4	Drawn date & no: 28/7/20
Scale: NTS	Drawn by: K.B

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.



Client:

Job Title:

Products	Protecta FR IPT
Application	Fire rated, water proof and movement linear seals 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	
Both sides in horizontal seals with maximum seal width 25mm	EI 60 & E 90
Both sides in vertical seals with maximum seal width 15mm	EI 120 & E 120
Classification CE	Facade (interior) 25HM Sanitary joints XS1
Sound reduction (seal only)	62 dB



ETA 18/0902

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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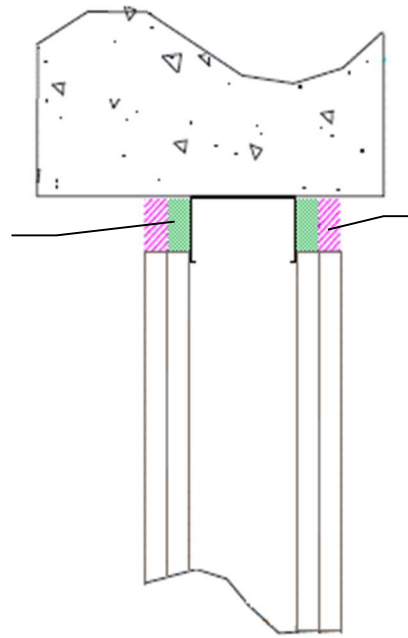
Signed and approved:

Sheet size:	Drawn date & no:
A4	8/7/19
Scale:	Drawn by:
NTS	K.B

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.
2. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have low shrinkage during cure and if a flush surface it is recommended to leave the sealant proud.
3. Protecta® FR IPT can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. IPT Tooling designed for the optimum finish is recommended instead of soap and water as it forms a film between the stick and the sealant.
4. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.
5. Protecta® FR IPT can be over-painted with most emulsion or alkyd (gloss) paints.

Backing with mineral stone wool minimum 12.5mm deep against steel partition track



Protecta FR IPT
Minimum seal depth 12.5mm

Client:

Job Title:

Products	Protecta FR IPT Stone wool
Application	Fire rated, water proof and movement linear seals 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, Sealant & Sound classification	
Both sides in horizontal and vertical seals with maximum seal width 30mm EI 120 & E 120	
Classification CE	Facade (interior) 25HM Sanitary joints XS1
Sound reduction (seal only)	62 dB

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



ETA 18/0902

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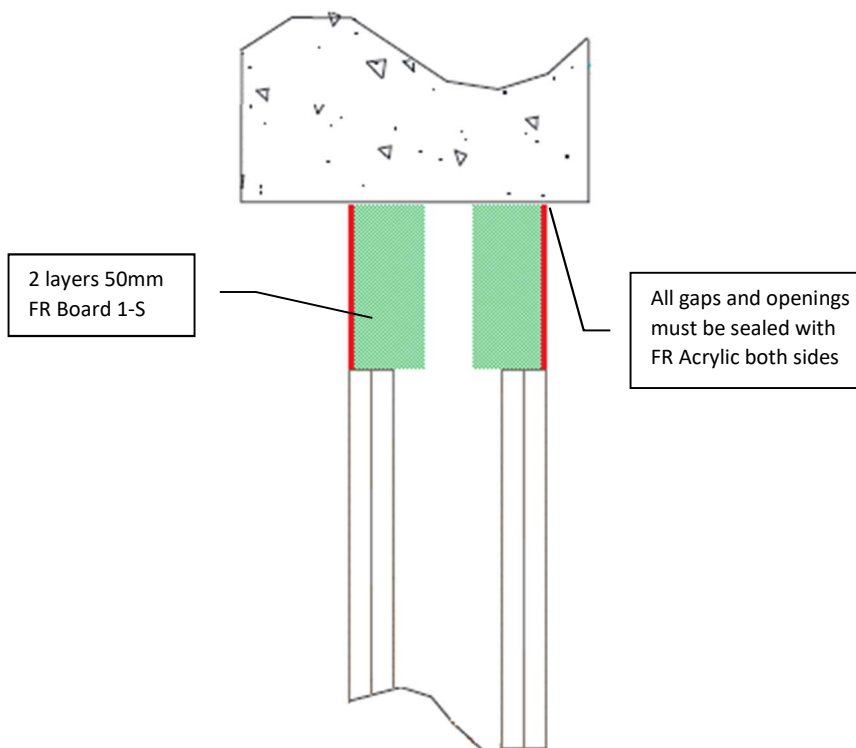
For all technical details on the products specified please refer to the technical data sheets that can be found on www.protecta.eu

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 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 gypsum on both sides. In seals longer than 2400mm, uninterrupted separating studs will be required at 2400mm centres or less.
3. Cut the required board(s) to suit the linear seal width. 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.



Client:

Job Title:

Products Protecta FR Board
Protecta FR Acrylic

Application Fire rated linear seals 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

Up to 1200mm wide horizontal seals flush with the surface on both sides fully within the cavity
EI 120 & E 120

Sound reduction (seal only) 55 dB

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



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Signed and approved:

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

INDEX

Protecta® product	Construction type	Substrates	Maximum width	Horizontal	Vertical	Seal description	Backing material ²⁾	Mov. 12.5%	Mov. 25%	Water proof ¹⁾	Fire classification	Detail
FR Acrylic	Floors ≥ 150mm	Concrete	100mm	-	-	Top face ≥ 25mm	≥ 25mm ³⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 180	Page 10
"	Floors ≥ 150mm	Concrete	100mm	-	-	Top face ≥ 10mm	≥ 90mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 240 & E 240	Page 11
"	Floors ≥ 150mm	Concrete	100mm	-	-	Soffit face ≥ 25mm	≥ 25mm ³⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 120	Page 12
"	Floors ≥ 150mm	Concrete	100mm	-	-	Both sides ≥ 15mm	≥ 25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 13
"	Floors ≥ 150mm	Concrete	30mm	-	-	Both sides ≥ 15mm	≥ 25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 240 & E 240	Page 13
"	Floors ≥ 150mm	Concrete	100mm	-	-	Both sides ≥ 15mm	≥ 25mm ⁴⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 180	Page 14
"	Floors ≥ 150mm	Concrete ↔ steel	30mm	-	-	Top face ≥ 25mm	≥ 50mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 30 & E 240	Page 15
"	Floors ≥ 150mm	Concrete ↔ steel frame	30mm	-	-	Top face ≥ 25mm	≥ 50mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 240	Page 15
"	Floors ≥ 150mm	Concrete ↔ steel	30mm	-	-	Both sides ≥ 15mm	≥ 25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 45 & E 240	Page 16
"	Floors ≥ 150mm	Concrete ↔ steel frame	30mm	-	-	Both sides ≥ 15mm	≥ 25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 240	Page 16
"	Floors ≥ 150mm	Concrete ↔ aluminium	30mm	-	-	Top face ≥ 25mm	≥ 50mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 20 & E 180	Page 17
"	Floors ≥ 150mm	Concrete ↔ aluminium frame	30mm	-	-	Top face ≥ 25mm	≥ 50mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 180	Page 17
FR IPT	Floors ≥ 150mm	Concrete	30mm	-	-	Top face ≥ 25mm	≥ 48mm ³⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 180 & E 240	Page 18
"	Floors ≥ 150mm	Concrete	30mm	-	-	Both sides ≥ 15mm	≥ 20mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 240 & E 240	Page 19
FR Board	Floors ≥ 150mm	Concrete	120mm	-	-	Top face 1-S 100mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 240	Page 20
"	Floors ≥ 150mm	Concrete	400mm	-	-	Single 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 240	Page 21
"	Floors ≥ 150mm	Concrete	800mm	-	-	Single 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 120	Page 21
"	Floors ≥ 150mm	Concrete	400mm	-	-	Double 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 240	Page 22
"	Floors ≥ 150mm	Concrete	800mm	-	-	Double 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 180	Page 22
EX Mortar	Floors ≥ 100mm	Concrete	800mm	-	-	Cast depth ≥ 50mm	≥ 50mm ⁵⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 180	Page 23
"	Floors ≥ 100mm	Concrete	800mm	-	-	Cast depth ≥ 100mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 240 & E 240	Page 24
FR Coating	Floors ≥ 150mm	Concrete	120mm	-	-	Top face ≥ 1mm	≥ 100mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 180 & E 240	Page 25
FR Acrylic	Rigid walls ≥ 150mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single sided ≥ 25mm	≥ 20mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 240	Page 27
"	Rigid walls ≥ 150mm	Masonry/concrete	50mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single sided ≥ 10mm	≥ 60mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 240	Page 28
"	Rigid walls ≥ 150mm	Masonry/concrete	50mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Single sided ≥ 10mm	≥ 60mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 28
"	Rigid walls ≥ 150mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single sided ≥ 25mm	≥ 48mm ³⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 240	Page 29
"	Rigid walls ≥ 150mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 15mm	≥ 20mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 240 & E 240	Page 30
"	Rigid walls ≥ 100mm	Steel ↔ steel	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Single sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 30 & E 120	Page 31
"	Rigid walls ≥ 100mm	Masonry/concrete ↔ steel	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 45 & E 120	Page 32
"	Rigid walls ≥ 100mm	Masonry/concrete ↔ steel	30mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 30 & E 120	Page 32
"	Rigid walls ≥ 100mm	Masonry/concrete ↔ steel frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 120	Page 32
"	Rigid walls ≥ 100mm	Masonry/concrete ↔ timber frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Single sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 60	Page 33
"	Rigid walls ≥ 100mm	Masonry/concrete ↔ timber frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 90	Page 34

¹⁾ Not submerged.

²⁾ Mineral fibre (stone wool) ≥ 35kg/m³ or Protecta backing.

³⁾ Protecta backing only.

⁴⁾ Mineral fibre (stone wool) ≥ 140kg/m³ or Protecta backing.

⁵⁾ Mineral fibre (stone wool) ≥ 150kg/m³

INDEX

Protecta® product	Construction type	Substrates	Maximum width	Horizontal	Vertical	Seal description	Backing material ²⁾	Mov. 12.5%	Mov. 25%	Water proof ¹⁾	Fire classification	Detail
FR IPT	Rigid walls ≥ 150mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single sided ≥ 15mm	≥ 45mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 60 & E 240	Page 35
"	Rigid walls ≥ 100mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 120 & E 120	Page 36
"	Rigid walls ≥ 150mm	Masonry/concrete	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 15mm	≥ 45mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 240 & E 240	Page 37
FR Board	Rigid walls ≥ 75mm	Masonry/concrete	1,200mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 120	Page 38
"	Rigid walls ≥ 150mm	Masonry/concrete	1,200mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 240	Page 39
"	Rigid walls ≥ 100mm	Masonry/concrete	1,200mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double 1-S 50mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 40
"	Rigid walls ≥ 150mm	Masonry/concrete	1,200mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double 2-S 60mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 180 & E 240	Page 41
FR Coating	Rigid walls ≥ 150mm	Masonry/concrete	120mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 1.2mm	≥ 100mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 180 & E 240	Page 42
FR Acrylic	Flexible walls ≥ 75mm	Wall boards	25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 45 & E 60	Page 44
"	Flexible walls ≥ 75mm	Wall boards	15mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 45 & E 60	Page 44
FR IPT	Flexible walls ≥ 75mm	Wall boards	25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 45 & E 60	Page 45
FR Acrylic	Flexible walls ≥ 100mm	Wall boards	25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 90	Page 46
"	Flexible walls ≥ 100mm	Wall boards	15mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 90	Page 46
"	Flexible walls ≥ 100mm	Wall boards	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 47
"	Flexible walls ≥ 100mm	Wall boards	15mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 90	Page 47
"	Flexible walls ≥ 100mm	Wall boards	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 25mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 48
"	Flexible walls ≥ 100mm	Wall boards	15mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 25mm	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 90 & E 90	Page 48
"	Flexible walls ≥ 100mm	Steel ↔ steel	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Single sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 30 & E 120	Page 49
"	Flexible walls ≥ 100mm	Wall boards ↔ steel	30mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 45 & E 120	Page 50
"	Flexible walls ≥ 100mm	Wall boards ↔ steel	30mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 30 & E 120	Page 50
"	Flexible walls ≥ 100mm	Wall boards ↔ steel frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 120	Page 50
"	Flexible walls ≥ 100mm	Wall boards ↔ timber frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Single sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 60	Page 51
"	Flexible walls ≥ 100mm	Wall boards ↔ timber frame	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 60 & E 90	Page 52
FR IPT	Flexible walls ≥ 100mm	Wall boards	25mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double sided ≥ 12.5mm	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 60 & E 90	Page 53
"	Flexible walls ≥ 100mm	Wall boards	15mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 120 & E 120	Page 53
"	Flexible walls ≥ 100mm	Wall boards	30mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Double sided ≥ 12.5mm	≥ 12.5mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EI 120 & E 120	Page 54
FR Board	Flexible walls ≥ 100mm	Wall boards	1,200mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Double 1-S 50mm	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EI 120 & E 120	Page 55

¹⁾ Not submerged.

²⁾ Mineral fibre (stone wool) ≥ 35kg/m³ or Protecta backing.

³⁾ Protecta backing only.

⁴⁾ Mineral fibre (stone wool) ≥ 140kg/m³ or Protecta backing.

⁵⁾ Mineral fibre (stone wool) ≥ 150kg/m³



Contact us

UK (North) Head Office and Factory

Polyseam Ltd,
15 St Andrews Road,
Huddersfield, HD1 6SB. United Kingdom.
Tel: +44(0)1484 421036
E: post.uk@polyseam.com

UK (South) Marketing Suite

Polyseam Ltd,
Warnford Court, 29 Throgmorton Street,
London, EC2N 2AT. United Kingdom.
T: +44 (0)207 947 4123
E: marketing@polyseam.com

Norway

Polyseam AS,
Ravneveien 7, Linnestad Næringsområde
N-3174 Revetal, Norway.
T: +47 3330 6690
E: post.no@polyseam.com

Sweden

Polyseam AB,
Frukthandlarvägen 7
120 44 Årsta, Sweden.
T: +46 (0)8 124 563 00
E: post.se@polyseam.com

www.protecta.eu

