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European Technical Assessment ETA-24/0609 of 2024/07/02

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Fireguard GR570	
Product family to which the above construction product belongs:	Fire Stopping, Fire Sealing & Fire Protective Products. Fire Retardant Products	
Manufacturer:	Dana Lim A/S Københavnsvej 220 DK 4600 Køge Denmark	
Manufacturing plant:	E/055	
This European Technical Assessment contains:	31 pages including 3 annexes which form an integral part of the document	
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 350454-00-1104 Firestopping and fire sealing products, Penetration Seals	
This version replaces:	-	

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1 Technical Description of the Product

- 1) Fireguard GR570 is an acrylic based graphite sealant used to reinstate the fire resistance performance of wall and floor constructions where they have been provided with apertures for the penetration of single or multiple services.
- 2) Fireguard GR570 is gun applied to annular space around the service(s) to the required depth (for details see Annex C)
- 3) Fireguard GR570 is supplied in 330ml cartridges or 2.5kg, 5kg, 10kg pails.
- 4) Fireguard GR570 can be installed in conjunction with Fireguard Board 931 ETA-24/0610

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The intended use of Fireguard GR570 is to reinstate the fire resistance performance of rigid and flexible walls and rigid floor constructions where they are penetrated by various cables, cable trays and plastic and insulated metallic pipes

- 1) The specific elements of construction that the system Fireguard GR570 may be used to provide a penetration seal in, are as follows:
 - Rigid walls: The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³.
 - Rigid walls: The wall must have a minimum thickness of 120 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m³.
 - Rigid floors: The floor must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m^3 .
 - Flexible walls The wall must have a minimum thickness of 100 mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 12.5 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration shall be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.
 - Flexible walls The wall must have a minimum thickness of 120 mm and comprise timber or steel studs lined on both faces with minimum 2 layers of 15 mm thick, 'Type F' Gypsum boards according to EN 520. In timber stud walls, no part of the penetration shall be closer than 100 mm to a stud, the cavity must be closed between the penetration seal and the stud and minimum 100 mm of insulation of class A1 or A2 according to EN 13501-1, is provided within the cavity between the penetration seal and the stud.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

- 2) The Fireguard GR570 may be used to provide a penetration seal with plastic and insulated metallic pipes, and cables and cable trays (for details see Annex C).
- 3) The total amount of cross sections of services (including insulation) should not exceed 60% of the penetration area.
- 4) The Fireguard GR570 may be used to seal apertures in the wall separating element up to 100mm wide by 300mm high. The Fireguard GR570 may be used to seal apertures in the floor separating element up to 250mm wide by 250mm high. The minimum permitted separation between adjacent seals/apertures is 200mm.
- 5) Pipes must be installed singular, cables require no minimum separation.
- 6) Services in walls and floors shall be supported at the distances specified in Annex C from the face of the separating element.
- 7) The provisions made in this European Technical Assessment are based on an assumed working life of the Fireguard GR570 of 10 years, provided that the conditions laid down in the product data sheet for the packaging/transport/ storage/installation/use/repair are met. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Use Category

Type Z₁: Intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0°C, without exposure to rain or UV.

3 Performance of The Product And References To The Methods Used For Its Assessment

2	Safety in case of fire	
	Reaction to fire	See Clause 1.1
	Resistance to fire	See clause 1.2
3	Hygiene, Health and the Environment	
	Air permeability	See clause 2.1
	Content and release of dangerous substances	See clause 2.2
4	Safety and accessibility in use	
	Durability and serviceability	See clause 3.2
5	Protection against noise	
	Airborne sound insulation	See clause 3.3

3.1 Safety in case of fire

3.1.1 Reaction to fire

No performance assessed

3.1.2 Resistance to fire

Fireguard GR570 has been tested in accordance with BS EN 1366-3: 2009 based upon the test results and the field of direct application specified within EN 1366-3: 2009, the Fireguard GR570 has been classified in accordance with EN 13501-2, as given in Annex C:

The seals may only be penetrated by the services described in Annex C; other parts or support constructions must not penetrate the seal.

The service support construction must be fixed to the building element containing the penetration seal or a suitable adjacent building element, in such a manner that in the case of fire, no additional load is imposed on the seal. Furthermore it is assumed that the unexposed face support is maintained for the required period of fire resistance.

Pipes must be perpendicular to the seal surface.

It is assumed that compressed air systems are switched off by other means in the case of fire.

The function of the pipe seal in case of pneumatic dispatch systems, pressurised air systems etc. is guaranteed only when the systems are shut off in case of fire.

The assessment does not cover the avoidance of destruction of the seal or of the abutting building element(s) by forces caused by temperature changes in case of fire. This has to be considered when designing the piping system.

The assessment does not address any risks associated with leakage of dangerous liquids or gases caused by failure of the pipe(s) in case of fire.

The durability assessment does not take account of the possible effect of substances permeating through the pipe on the penetration seal.

3.2 Hygiene, Health and the Environment.

3.1.1 Air permeability

Fireguard GR570 has been tested in accordance with BS EN 1314-1 to provide the following results:

Product tested			Fireguard GR570		
Pressure (Pa)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)	Leakage (m ³ /h)	Leakage (m ³ /m ² /h)	
50	0.2	5.6	0.3	8.3	
100	0.4	11.1	0.6	16.7	
150	0.7	19.4	0.9	25.0	
200	1.0	27.8	1.2	33.3	
250	1.1	30.6	1.6	44.4	
300	1.2	33.3	1.9	52.8	
450	2.2	61.1	2.7	75.0	
600	2.4	66.7	3.4	94.4	

3.2.2. Content and release of Dangerous Substances

The applicant has presented a declaration that Fireguard Board 931 and Coating is in compliance with Council Directive 76/769/EEC of 27th July 1976 on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations (incl. all amendments and adaptations).

Confirmation has further been declared that all dangerous chemical substances \geq 1.0 % w/w as well as all toxic, carcinogenic, toxic for reproduction and mutagenic chemical substances \geq 0.1 % w/w (Status: 29. adaption – 2004/73/EG – of the EU directive 67/548/EEC - classification, packaging and labelling of dangerous substances) are stated in the Fireguard Board 931 and Coating material safety data sheets (according to 91/155/EEC including amendments) and have been considered for the classification of the products according to the directive 1999/45/EG (classification of preparations, including amendments).

All dangerous chemical substances are below the classification limits of 67/548/EEC.

In addition to the specific clauses relating to dangerous substances contained in this European technical approval, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations, and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

3.3 Safety and accessibility in use

3.3.1 Durability

Fireguard GR570 has been tested in accordance with EOTA Technical Report - TR024 – EAD 350454-00-1104 – Firestopping and fire sealing products – Penetration Seals , for the type Z1, and the results of the tests have demonstrated suitability for penetration seals intended for use in internal conditions with humidity equal to or higher than 85% RH excluding temperatures below 0oC, without exposure to rain or UV.

3.4 Protection against noise

3.4.1 The results of the test provided the following single number rating:

Rw(C:Ctr)=52(-1:-6)

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended use(s)	AVCP System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	System 1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking

Issued in Copenhagen on 2024-07-02 by

Thomas Bruun

Managing Director, ETA-Danmark

Annex A

Reference Documents

EN 13501-1	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2	Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests
EOTA TR 024	Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products

Annex B

Description of Product

Fireguard GR570

A detailed specification of the product is contained in document "Evaluation Report" relating to this ETA.

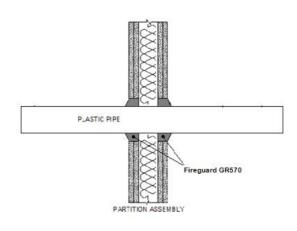
Annex C

Resistance to Fire Classification of Fireguard GR570

C1.1 Flexible and Rigid wall constructions according to 1.2.1 with wall thickness of minimum 120 mm

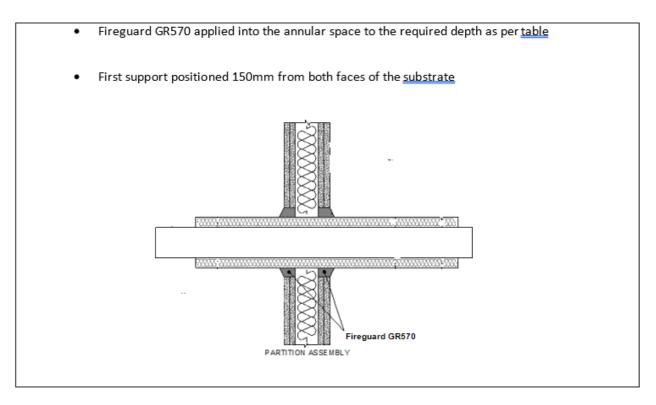
C.1.1.1 Penetration seal with Fireguard GR570 – Plastic Pipes

- Fireguard GR570 applied into the annular space to the required depth as per table
- First support positioned 150mm from both faces of the substrate



Penetration Specific	ation	Fireguard GR570 (installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø thickness	1.9-3mm wall	10mm annulus x 25mm deep	N/A	EI120 U/C
PVC Pipe 125mm ø thickness	4.8- wall 7.4mm	16mm annulus x 25mm deep	30mm deep, 80Kg/m ³	EI120 U/C
HDPE Pipe 63mm ø 7.2 thickness, Cables up to		300mm wide x 100mm high x 25mm deep	N/A	EI120 U/C
HDPE Pipe 90mm thickness,	ø 9.2mm wall	12.5mm annulus x 25mm deep	N/A	EI120 U/C
ABS Pipe 90mm ø 6mm	n wall thickness,	12.5mm annulus x 25mm deep	N/A	EI120 U/C

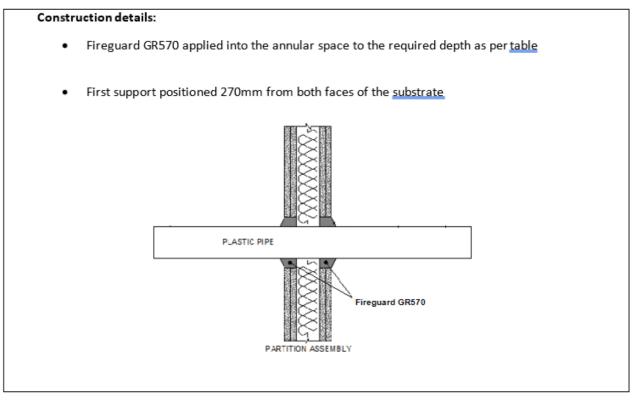
C.1.2.1 Penetration seal with Fireguard GR570 – Insulated Metallic Pipes



Penetration Specification	Fireguard GR570 (installed both faces)	Backing Material	Classification
Copper/Steel Pipe 60mm ø 0.8mm -14.2mm wall thickness, insulated with 32mm 'Armaflex AF' (CS) Continued Sustained	20mm annulus x 25mm deep	N/A	E120 U/C EI90 U/C
Copper/Steel Pipe 15mm ø 0.8mm -7mm wall thickness, insulated with 13mm 'Armaflex AF' (CS) Continued Sustained	15mm annulus x 25mm deep	N/A	EI120 U/C

C.2.1 Flexible and Rigid wall constructions according to 1.2.1 with wall thickness of minimum 100 mm

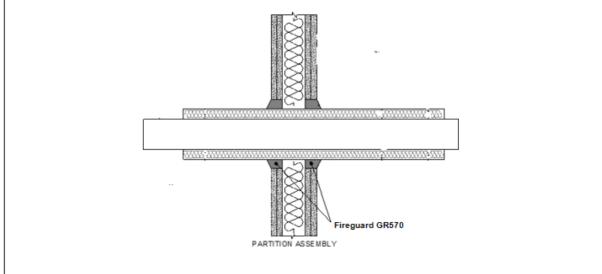
C.2.1.1 Penetration seal with Fireguard GR570 – Plastic Pipes



Penetration Specification	Fireguard GR570 (installed both faces)	Backing Material	Classification
PVC Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
PVC Pipe 125mm ø 9.2mm wall thickness	20mm annulus x 25mm deep	N/A	EI60 C/U
ABS Pipe 40mm ø 1.9mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U
HDPP Pipe 40mmø 2mm wall thickness	20mm annulus x 25mm deep	N/A	EI120 C/U

C.2.2.1 Penetration seal with Fireguard GR570 – Insulated Metallic Pipes

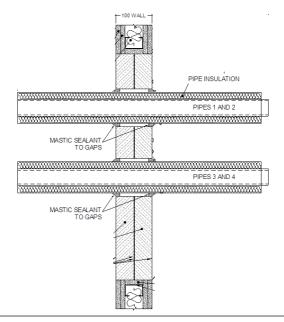
- Fireguard GR570 applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate



Penetration Specification	Fireguard GR570 (installed both faces)	Backing Material	Classification
Copper/Steel Pipe 40mm ø 1.5mm – 14.2mm wall thickness insulated with32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 40mm - 159mm ø 2.0 mm – 14.2mm wall thickness insulated with32mm 'Armaflex AF' (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U
Copper/Steel Pipe 159mm ø 2.0 mm – 14.2mm wall thickness insulated with 30mm x 80kg/m ³ 'Pipelane' SGR glass wool tube (LS 650mm) Local Sustained 650mm	20mm annulus x 25mm deep	N/A	E120 C/U EI30 C/U

C.2.3.1 Penetration seal with Fireguard GR570 – Insulated Metallic Pipes

- Fireguard GR570 applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate

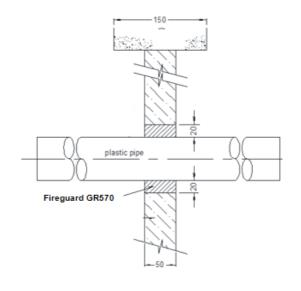


Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Copper/Steel Pipe 40mm ø 1.5mm -14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			EI60 C/U
Copper/Steel Pipe 159mm ø 2.3mm -14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained	15mm annulus, 15mm deep both faces of the Firequard Board 931,	Double layer of 50mm Fireguard	E90 C/U E160 C/U
Steel Pipe 40mm ø 1.7mm - 14.2mm wall thickness, insulated with 20mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained	incorporating a 15mm fillet projecting from the face of the seal	Board 931max 600mm high x 600mm wide	E90 C/U EI60 C/U
Steel Pipe 150mm ø 2.3mm - 14.2mm wall thickness, insulated with 30mm thick foil faced glasswool insulation min density 80kg/m ³ (CS) Continued Sustained			EI60 C/U

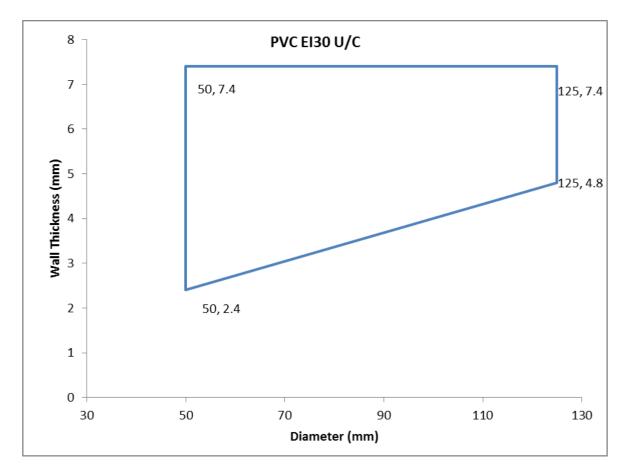
C.3.1 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm incorporating Fireguard Board 931

C.3.1.1 Penetration seal with Fireguard GR570 – Plastic Pipes

- Fireguard GR570 applied into the annular space to the required depth as per table
- First support positioned 400mm from both faces of the substrate

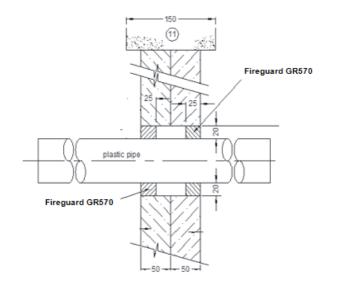


Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
PVC Pipe 50mm ø 2.4-7.4mm wall thickness	20mm annulus full 50mm	Single layer of 50mm Fireguard Board 931	EI45 U/C
Pipe Diameters as below	depth of the Fireguard Board 931	max 1100mm high x 750mm wide	See below

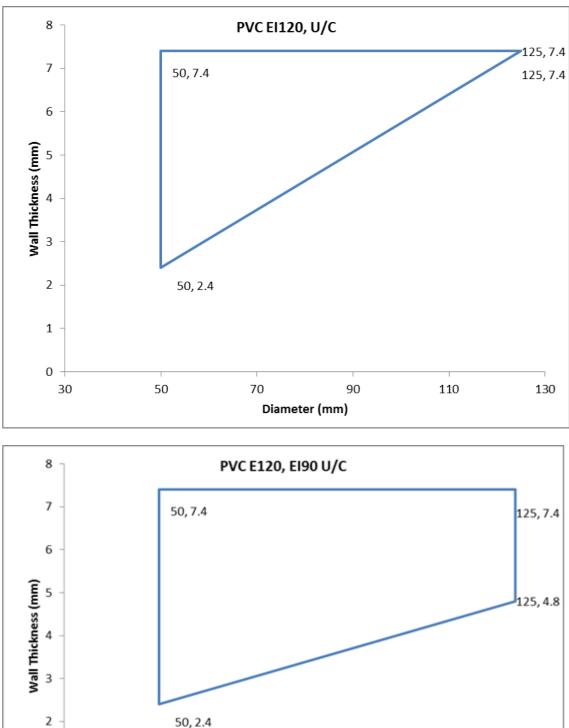


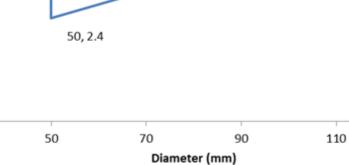
Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	20mm annulus full 50mm	Single layer of 50mm Fireguard Board 931	E45 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	depth of the Fireguard Board 931	max 1100mm high x 750mm wide	EI30 U/C
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

- Fireguard GR570 applied into the annular space to the required depth as per table
- Fireguard Board 931 2 x 50mm thick
- First support positioned 400mm from both faces of the substrate



Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the Fireguard Board 931	Double layer of 50mm Fireguard Board 931 max 1100mm high x 750mm wide	See below





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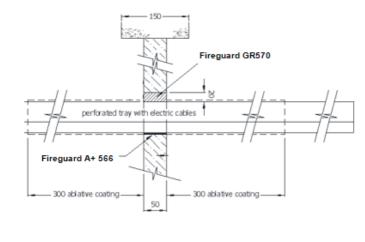
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Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	20mm annulus, 25mm	Double layer of 50mm Fireguard	EI120 U/C
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	deep both faces of the Fireguard Board 931	Board 931 max 1100mm high x 750mm wide	
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

C.3.2.1 Penetration seal with Fireguard GR570 – Electrical Cables

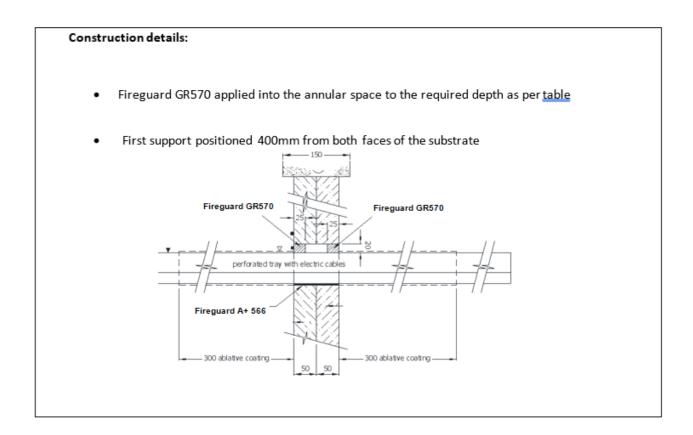
Construction details:

- Fireguard GR570 applied into the annular space to the required depth as pertable
- First support positioned 400mm from both faces of the substrate



Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
*500mm perforated cable tray			EI30
*Electrical cables up to 21mm ø			
*1 off 'C1' Cable	20mm gap full 50mm depth of the Fireguard Board 931	Single layer of 50mm Fireguard Board max	FTAF
*1 off 'C2' Cable		1100mm high x 750mm wide	EI45
*1 off 'C3' Cable			

*All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal

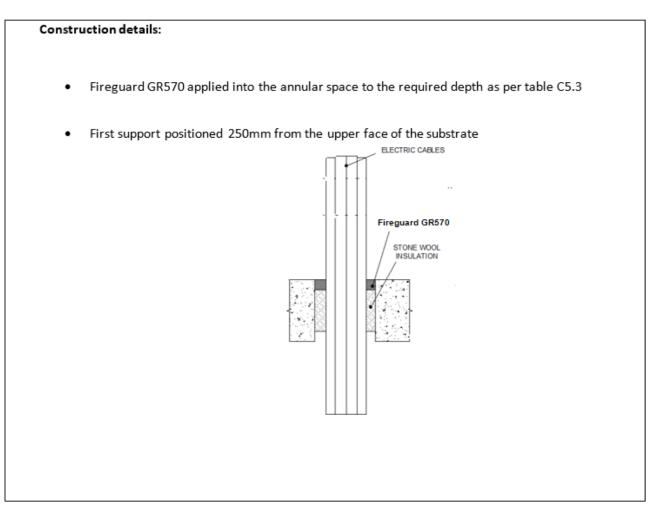


Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
*500mm perforated cable tray			
*Electrical cables up to 21mm ø	20mm annulus, 25mm deep both faces of the	Double layer of 50mm Fireguard	EI120
*1 off `C1' Cable	Fireguard Board 931	Board 931 max 1100mm high x 750mm wide	
*1 off `C2' Cable		7 Somm Wide	E120 EI90
*1 off 'C3' Cable			EI120

*All cables coated with 2mm DFT PST Coating 300mm along the cables both sides of the seal

C.4.1 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

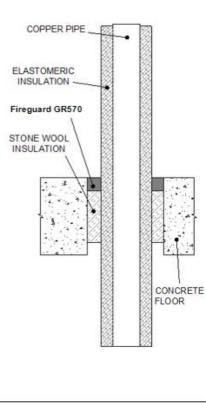
C4.1.1 Penetration seal with Fireguard GR570 – Electrical cables



Penetration Specification	Fireguard GR570 (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Electrical Cables 0-21mm ø				E180 E120
Electrical Cables 22- 80mm ø				E120 E120
Non sheathed electrical cables 0- 24mm ø	25mm deep	Max 200 x 200 Min 50 x 50	100mm Deep stone wool 45 kg/m ³	E180 EI15
Up to 21mm Ø telecomm cables in bundles of up to 100 mm diameter				E180 E120

C.4.2.1 Penetration seal with Fireguard GR570 – Insulated Metallic Pipes

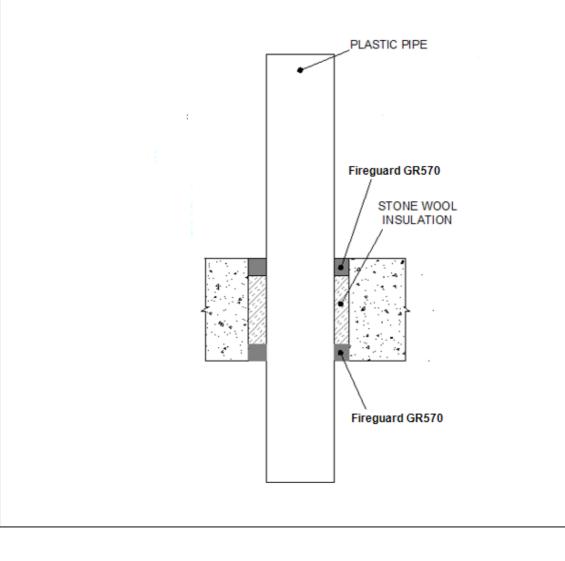
- Fireguard GR570 applied into the annular space to the required depth as per table
- First support positioned 250mm from the upper face of the substrate



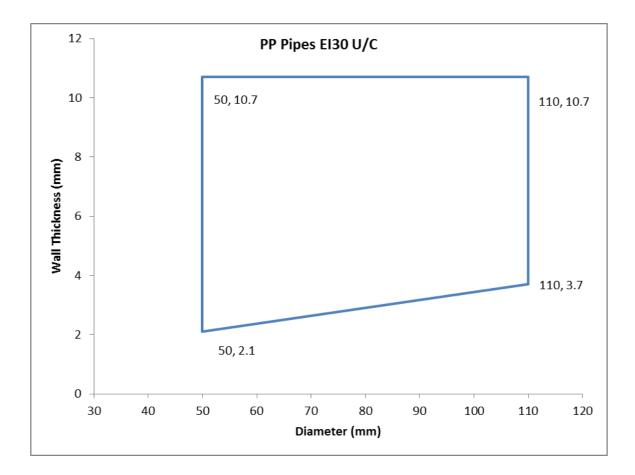
Penetration Specification	Fireguard GR570 (installed upper face only)	Aperture Size (mm)	Backing Material	Classification
Copper/Steel Pipe 41mm – 159mm ø 2.5mm - 14.2mm wall thickness, insulated with 16mm - 32mm 'Armaflex' (CS) Continued Sustained	2Emm door	20mm annulus	100mm Deep stone	EI20 U/C
Copper/Steel Pipe 41mm 1.4 – 14.2mm wall thickness, insulated with 16mm 'Armaflex' (CS) Continued Sustained	25mm deep	20mm annulus	wool 45 kg/m ³	E240 U/C E160 U/C

C.4.3.1 Penetration seal with Fireguard GR570 – Plastic Pipes

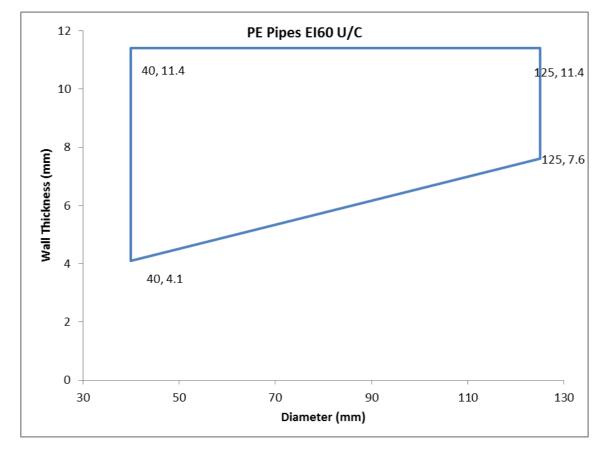
- Fireguard GR570 applied into the annular space to the required depth as pertables
- First support positioned 250mm from the upper face of the substrate



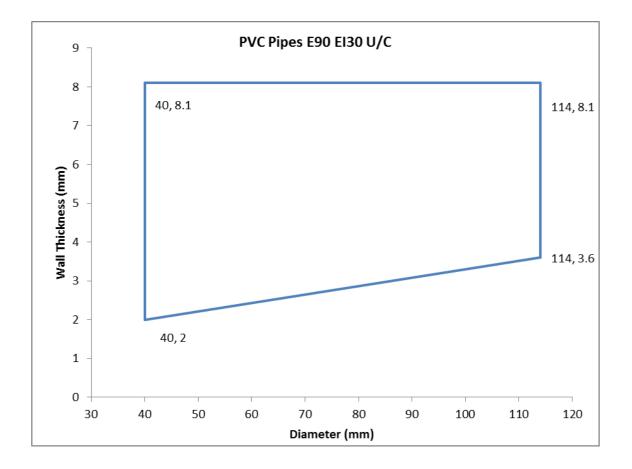
Penetration Specification	Fireguard GR570 (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PP Pipe 110mm ø 3.7mm wall thickness				EI30 U/C
PP Pipe 110mm ø 10.7mm wall thickness	25mm deep	20mm annulus	100mm Deep stone wool 45 kg/m ³	EI120 U/C
PP Pipe 50mm ø 2.1mm wall thickness				EI240 U/C



Penetration Specification	Fireguard GR570 (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PE Pipe 40mm ø 4.1mm wall thickness				EI240 U/C
PE Pipe 125mm ø 7.6 mm wall thickness	25mm deep		100mm Deep stone wool 45 kg/m ³	EI60 U/C
PE Pipe 125mm ø 11.4 mm wall thickness		20mm annulus		EI90 U/C

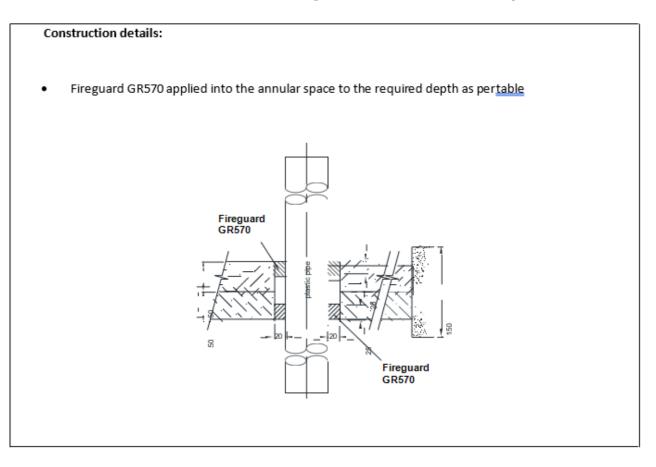


Penetration Specification	Fireguard GR570 (installed both faces)	Aperture Size (mm)	Backing Material	Classification
PVC Pipe 40mm ø 2mm wall thickness				EI240 U/C
PVC Pipe 114mm ø 3.6 mm wall thickness	25mm deep		100mm Deep stone wool 45 kg/m ³	E90 U/C EI45 U/C
PVC Pipe 114mm ø 8.1 mm wall thickness		20mm annulus		EI120 U/C

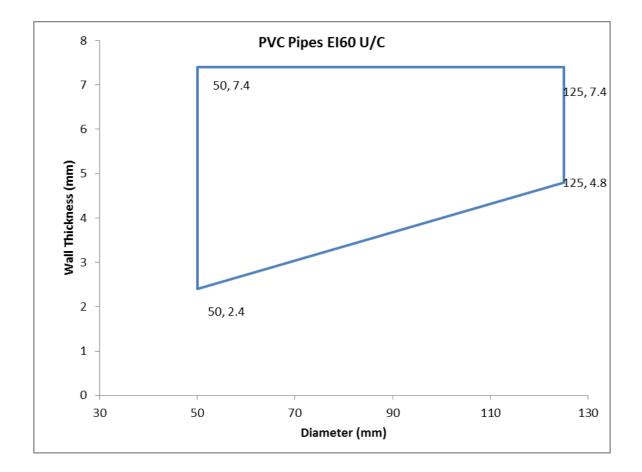


C.5.1 Rigid floor constructions according to 1.2.1 with wall thickness of minimum 150 mm incorporating Fireguard Board 931

C.5.1.1 Penetration seal with Fireguard GR570 – Plastic Pipes

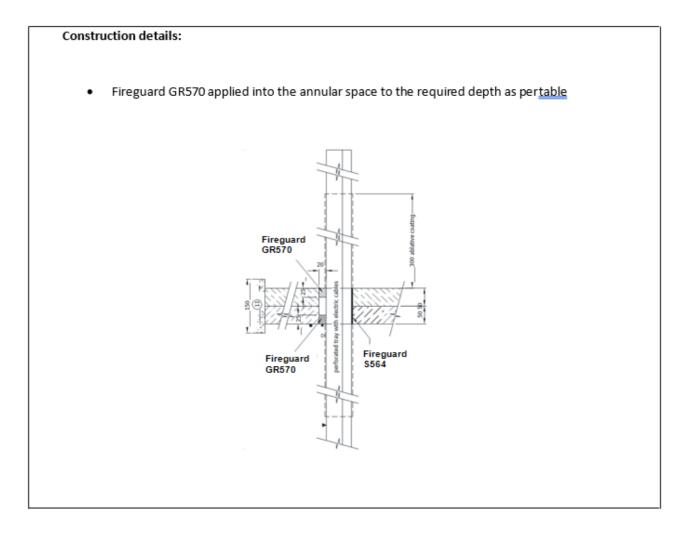


Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Pipe Diameters as below	20mm annulus, 25mm deep both faces of the Fireguard Board 931	Double layer of 50mm Fireguard Board 931 max 1100mm high x 750mm wide	See below



Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
Uponor MLC (Multi-Layer Composite) Pipe 40mm ø 4mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 50mm ø 4.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 63mm ø 6mm wall thickness	20mm annulus, 25mm	Double layer of 50mm Fireguard	
Uponor MLC (Multi-Layer Composite) Pipe 75mm ø 7.5mm wall thickness	deep both faces of the Fireguard Board 931	Board 931 Batt max 1100mm high x 750mm wide	EI60 U/C
Uponor MLC (Multi-Layer Composite) Pipe 90mm ø 8.5mm wall thickness			
Uponor MLC (Multi-Layer Composite) Pipe 110mm ø 10mm wall thickness			

C.5.2.1 Penetration seal with Fireguard GR570 – Electrical Cables



Penetration Specification	Fireguard GR570	Fireguard Board 931	Classification
*500mm perforated cable tray			
*Electrical cables up to 21mm ø	20mm annulus 25mm	Double layer of 50mm Fireguard	EI60
*1 off 'C1' Cable	20mm annulus, 25mm deep both faces of the Fireguard Board 931	Board 931 max 1100mm high x 750mm wide	EIGO
*1 off `C2' Cable			
*1 off 'C3' Cable			

*All cables coated with 2mm DFT PST Coating 300mm along the cables upper side of the seal