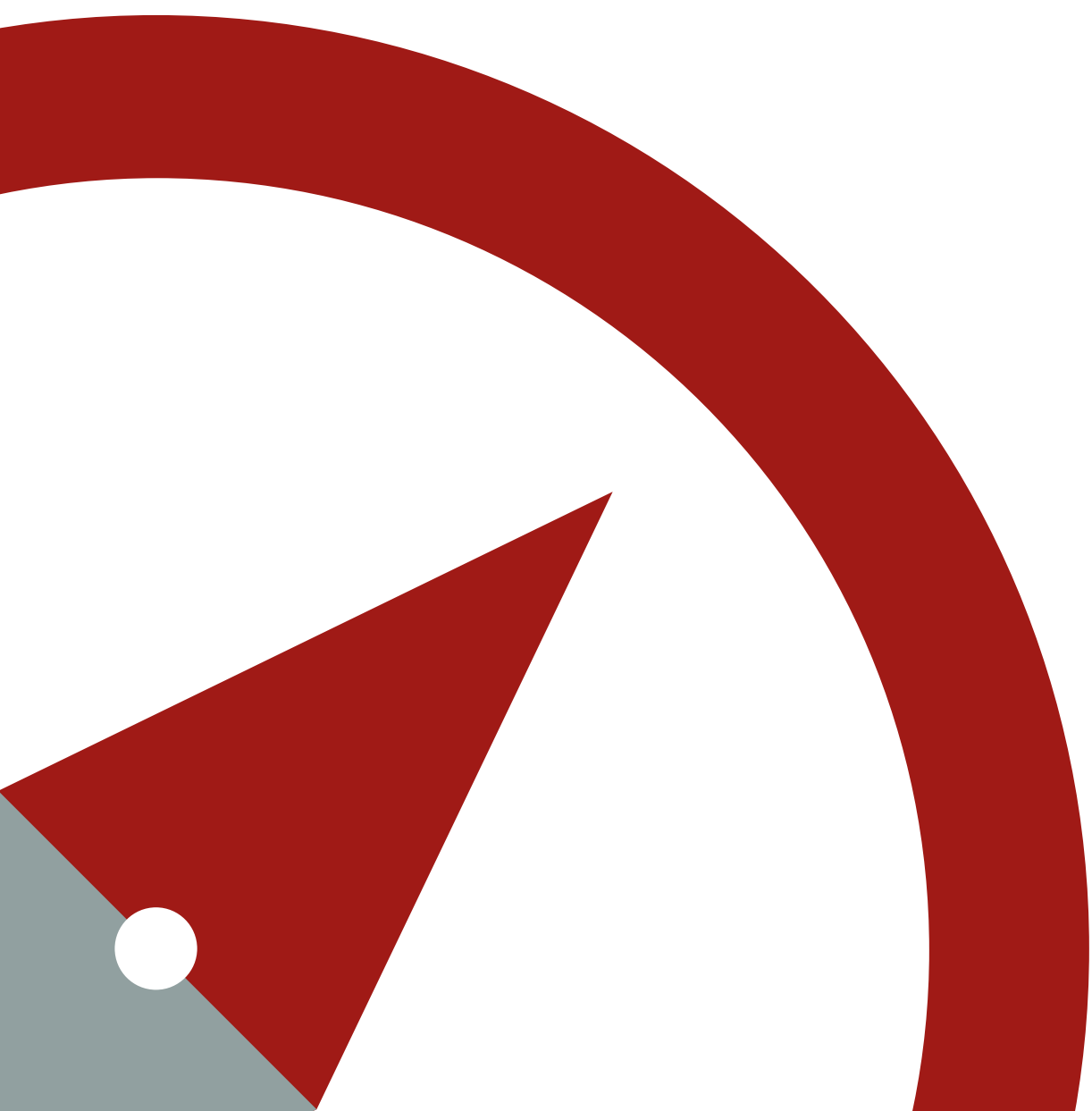


FIRE STOPPING

BY NORSEAL



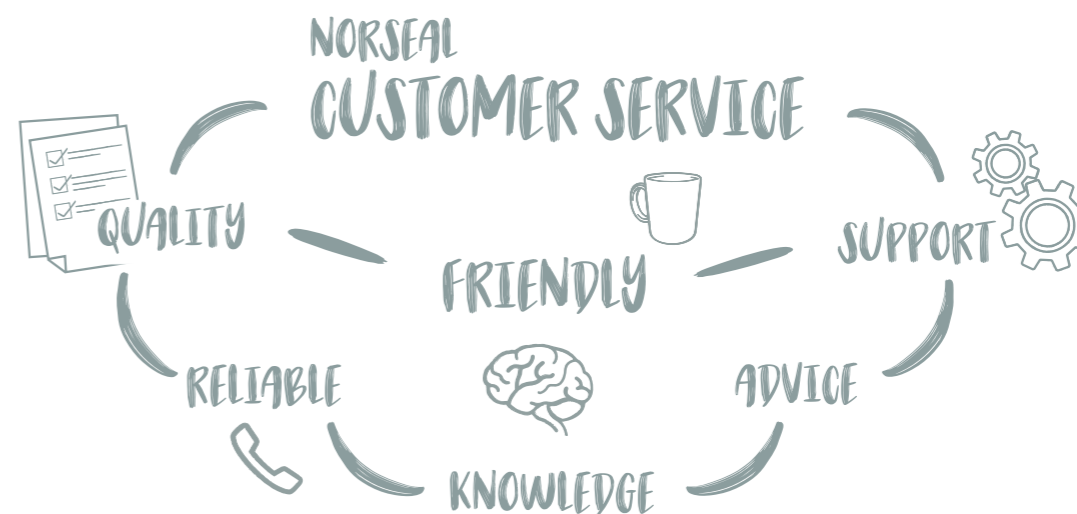
NORSEAL

Norseal is proud to be the UK's largest stockist of specialist seal and fire stopping solutions. We are committed to the design, development and distribution of intumescent and acoustic products, ensuring they both meet and exceed the very latest industry standards.

Offering a friendly and professional service, the team prides itself on providing a next day delivery service regardless of order size, up-to-date technical advice, and a commitment to service excellence. This is continued online at, norseal.co.uk, which boasts an extensive knowledge-base and full CAD library.

"Our vision is to deliver peace of mind through quality sealing solution.

Integrity and a passion for customer service will enable us to provide products and services that exceeds customers' demands. Consistent communication and teamwork will demonstrate our ability to be the first choice for fire stopping sealing solutions."



As the UK's leading trade association relating to 'Built-In' fire protection, the ASFP is dedicated to the protection of life, property, the environment and our heritage and promotes continuous improvement in all aspects of passive fire protection.

The ASFP strives to promote excellence in the design and installation of fire protection products through high quality and technical expertise, by fostering the education and training of all those involved in the development, specification and use of 'Built-In' passive fire protection.



RIBA Product Selector is the industry-leading and definitive online resource to research and select construction product and service information for all types of building design projects.

The website offers free access to manufacturers' product catalogues, technical documents, design files, case studies and company contact details. It also contains product listings by CI/SfB classifications to assist with company and/or product selection.



ISO 9001 is the internationally recognised standard for Quality Management Systems (QMS). It is the most widely used QMS standard in the world, with over 1.1 million certificates issued to organizations in 178 countries.

ISO 9001 provides a framework and set of principles that ensure a common-sense approach to the management of your organisation to consistently satisfy customers and other stakeholders. In simple terms, ISO 9001 certification provides the basis for effective processes and effective people to deliver an effective product or service time after time.



ISO 14001 is the international standard for environmental management systems (EMS) and the most widely used EMS in the world, with over 14,000 organizations certified in the UK and over 250,000 ISO 14001 certificates issued globally.

ISO 14001 is the principal management system standard which specifies the requirements for the formulation and maintenance of an EMS. This helps to control your environmental aspects, reduce impacts and ensure legal compliance.

WHY
NORSEAL

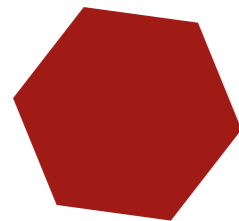
20

**YEARS EXPERIENCE
IN SEALING SOLUTIONS**

helping us to provide

SUPPORT

FROM A FDIS QUALIFIED TEAM



as well as offering

**24 HOUR ACCESS
SELF SERVE**

ensuring we have what you need with a

**WIDE RANGE OF
STOCKED PRODUCTS**



with, as standard



**NEXT DAY
DELIVERY**

giving us these

**CUSTOMER
REVIEWS**



"Always respond to new orders promptly and swiftly turn around despatch of goods. For myself and one of my colleagues, we primarily deal with and concentrate on after-care sales/remedial work, therefore, they have sense of urgency and impact on completing works on site for our clients. Thank you for the continued service!"

"As always, fantastic service, been a customer with you for nearly 20 years now, wouldn't go anywhere else."

"As always, concise with any information required and delivery received next day."

"Excellent service as per usual and would not expect anything else."

"Self Serve keeps me in the loop with what I have in the system with regards to orders. Ordering is so straight forward and simple to do"

WAYS TO ORDER



Call us on **01661 520 930** - 8:30AM - 5:30PM Monday - Friday



Email us at **firestopping@norseal.co.uk** - Before 4:30PM for next day delivery*



Online with the Self Serve Portal - **norseal.co.uk/portal** - sign up for 24 hour access to your account

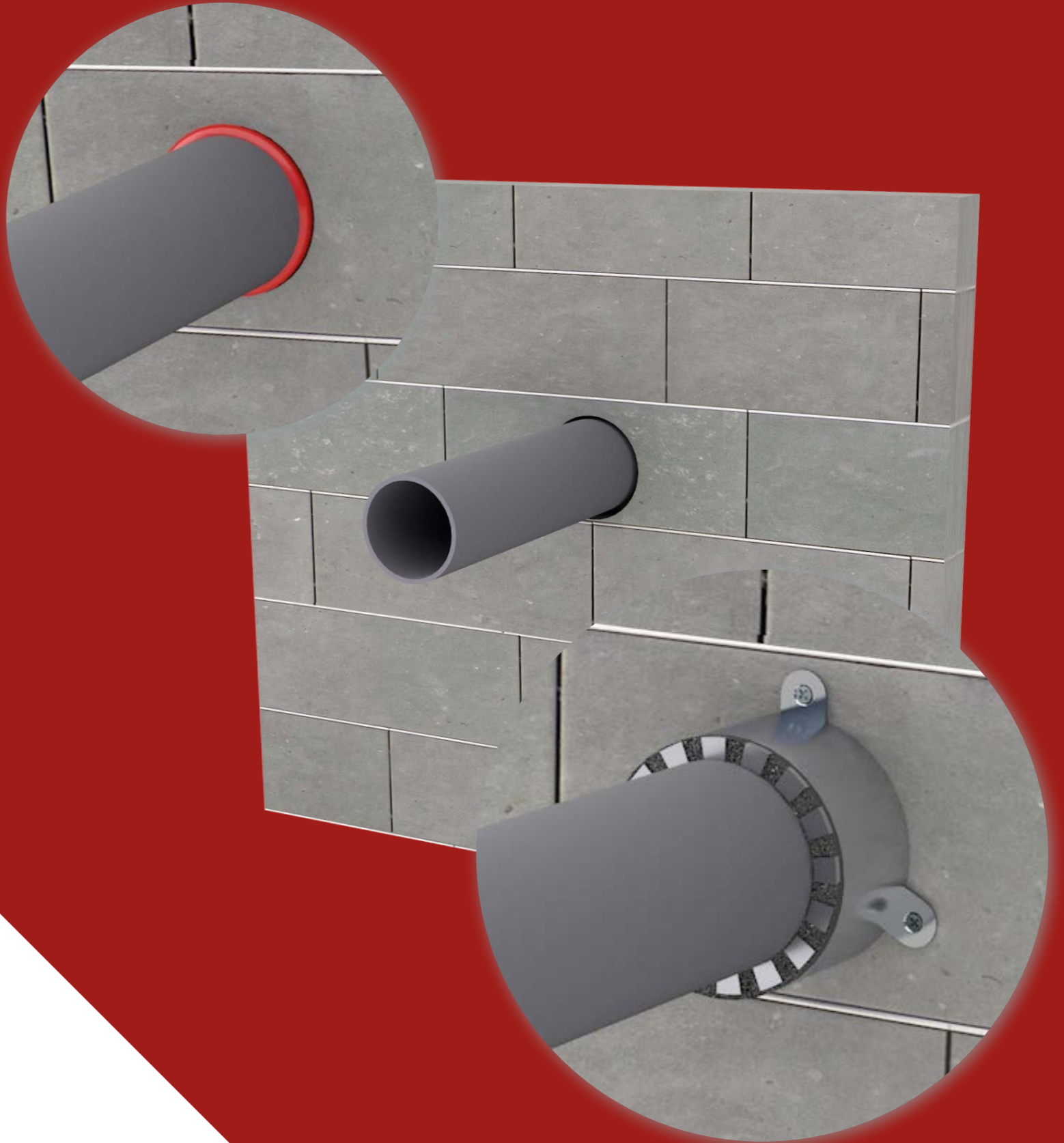
FIRE STOPPING

A comprehensive range of tested fire stopping products including pipe wraps, collars, sleeves, pillows, downlighter covers, fire batt, linear gap seals, electrical inserts, and mastics.

Products are specifically designed to slow the spread of fire through gaps in walls, floors and ceilings made to allow ducting, pipework and ventilation.

Contents

Service Penetrations	6 - 11
Electrical Service Penetrations	12
Lighting	13 - 15
Ventilation	16 - 19
Ventilation Cavity Fire Barriers	20 - 25
Penetration & Linear Gaps	26 - 30



PIPE COLLAR

PYROPLEX

**Application**

Around plastic pipes that penetrate concrete and masonry walls and floors
Soil, waste and drainage 'above ground'
Plasterboard partition PPC25 - PPC160 only (400 series only)

Fixing

M8 x 65mm Sleeve anchors or 50mm (minimum) expanding bolts

Performance

Fire tested to BS 476-20 and BS EN 1366-3
CE Marked (1121-CPR-JA5002)
Certifire CF635
Classified to BS EN 13501-2
ETA - 15/0136

Colour

Silver grey

200 SERIES PIPE COLLAR (2 HOUR)**Material**

200 series- Galvanised steel outer casing, Pyroplex graphite

Sizes (mm) - external pipe diameter

55, 75, 82, 110, 160

Order code

COL + Size + -2H

eg. COL55-2H (55mm, 2 hours)

400 SERIES PIPE COLLAR (4 HOUR)**Material**

400 series- Stainless steel outer casing, Pyroplex graphite

Sizes (mm) - external pipe diameter

25, 32, 40, 48, 55, 68, 82, 90, 110, 125, 135, 160, 200, 225, 250, 315, 350, 400

Order code

COL + Size + -4H

eg. COL55-4H (55mm, 4 hours)

SLIMLINE PIPE COLLAR

PYROPLEX

**Application**

Around plastic pipes that penetrate concrete and masonry walls and floors - suitable for plasterboard partitions
50mm to 160mm
Soil, waste and drainage 'above ground'
Suitable for plastic flammable pipes with PVC-C, PVC-U, PE, PP, ABS and SAN+PVC pipes

Fixing

Metal sleeve anchor M6 x 65s or CE marked alternative anchors

Performance

Fire tested to BS EN 1366-3
Classified to EN 13501-2
ETA - 19/0440

Material

Zintec coated steel outer casing, Pyroplex graphite

Colour

Silver grey

Sizes (mm) - external pipe diameter

50, 75, 82, 110, 160

Order code

PPC + Size + -SL

eg. PPC50-SL (50mm Slimline)

PIPE WRAP

PYROPLEX

**Application**

Around plastic pipes that penetrate concrete and masonry walls and floors
Soil, waste and drainage 'above ground' applications

Fixing

Self-adhesive, wrap around pipe

Performance

Fire tested to BS EN 1366-3
Certifire CF635
CE Marked (1121-CPD-JA5003)
ETA - 12/0351

Material

Pyroplex graphite encased in PVC

200 SERIES PIPE WRAP (2 HOUR)**Colour**

Red

Sizes (mm) - external pipe diameter

55, 82, 110, 160
Other sizes available on request

Order code

PPW + Size + -2H
eg. **PPW55-2H** (55mm, 2 hours)

400 SERIES PIPE WRAP (4 HOUR)**Colour**

Silver grey

Sizes (mm) - external pipe diameter

55, 82, 110, 125, 160
Other sizes available on request

Order code

PPW + Size + -4H
eg. **PPW55-4H** (55mm, 4 hours)

FIRE BATT

FSI

**Application**

Permanent penetrations in walls and floors

Fixing

Cut and positioned in aperture using Pyrocooustic sealant

Performance

Fire tested to BS 476-20:22, EN 1366-3, EN 1363-1 & EN13501-2
Certifire CF513
Classified 'E' in accordance with EN 13501-1
Acoustically tested to BS EN ISO 10140-2
Air Permeability tested to EN 1026
Electrical Installations Fire tested to BS 7671-42:52

Material

Ablative coated stonewool board

Colour

White

Size (mm) / Depths (mm)

1200x600 / 50, 60

**Coating thickness**

Single Coated (**SC**), Double Coated (**DC**)
Single Smooth Face* (**SS**), Double Smooth Face* (**DS**),
Double Coated Grey* (**DG**) (*50mm only)

Order code

FB + Depth + /Coating thickness
eg. **FB50/SC** (50mm Single coated)

FIRE PILLOW

FSI

**Application**

Designed for multi-service penetrations in rigid walls and floors, where services are being continuously changed or replaced

Fixing

Positioned in aperture

Performance

Fire tested to BS 476 & EN 1366-4
Acoustically tested in accordance with EN 10140-2
Air Permeability tested to EN 1026
Certifire CF514
Electrical Installations Fire tested to BS 7671-42:52

Material

Organic fillers & intumescent additives within a waterproof glass cloth bag

Colours

Silver (**S**), White (**W**), Black (**B**), Red (**R**)

**Sizes (mm)**

330x50x20 (**S100**), 330x200x25 (**S250**), 330x200x45 (**S800**)

Order code

Size + /Colour eg. **S100/W** (330x50x20mm, White)

PIPE FIRE SLEEVE

TENMAT

**Application**

Around pipes in masonry walls and floors, plasterboard partitions and mineral fibre batts

Fixing

Cut and positioned around pipe

Performance

Fire tested to BS 476 & EN 1366-3
ETA - 12/0332
CE Marked

Material

Graphite & mineral fibre mix

Colour

Silver

Sizes (mm) - internal sleeve diameter

17, 21, 27, 34, 42, 48, 54, 60, 67, 76, 80, 89, 102, 108, 114, 127, 140, 159, 169

Length (mm)

300

Nominal wall thickness (mm)

25

Order code

PFS + Size

eg. PFS54 (54mm internal diameter)

Examples of Approved Applications**Wall Penetrations:**

Plasterboard (approved with or without cavity insulation)
Concrete / Masonry Wall
Ablative Coated Fire Batt

Floor Penetrations:

Concrete floor
Concrete floor with Firestop Compound

Independently Third Party Assessed Approved Applications:**30 Minute Partitions:**

Single Board from 72mm upwards

60 Minute Partitions:

Single & Double Board Systems
Single Layer Ablative Coated Fire Batt

120 Minute Partitions:

Double Board Systems
Double Layer Ablative Coated Fire Batt

**Test Data**

Report Type	Fire Test Lab	Report Number	Construction	Fire Rating
Certificate	Exova BM Trada	1224-CPR-0341	Various	CE Marked
European Technical Approval	Exova BM Trade	ETA 12/0332	Various	Up to 240
Classification	Exova Warringtonfire	CR12001 A	Plasterboard	30-120
Classification	Exova Warringtonfire	CR12001 B	Plasterboard/Concrete	90-240
Classification	Exova Warringtonfire	CR12001 C	Plasterboard/Concrete	120-240
Assessment	Exova Warringtonfire	3365470w0.2	Plasterboard, Concrete, Floor	60-120
Assessment	IFC Group	PAR/13814/02	Ablative Coated Fire Batt	120
Fire Test	Exova Warringtonfire	A03187	Various	10-120
Fire Test	Exova Warringtonfire	RF11067	Plasterboard	30-120
Fire Test	Exova Warringtonfire	IF11082	Concrete	120
Fire Test	Exova Warringtonfire	IF11059A	Concrete	90-120
Fire Test	Exova Warringtonfire	IF11049	Concrete	120
Fire Test	Exova Warringtonfire	IF09045	Concrete	240
Fire Test	Exova Warringtonfire	IF04040a	Blockwork Floor	120
Fire Test	Exova Warringtonfire	IF03030	Plasterboard	120
Fire Test	Exova Warringtonfire	IF02087A	Masonry Floor	120
Fire Test	Exova Warringtonfire	IF02087B	Plasterboard	120
Fire Test	Exova Warringtonfire	IF02045 AR1	Ablative Coated Fire Batt	60-120
Acoustic Test	BRE	239037	Plasterboard	Pass
Thermal Test	BBA	BC 0474	N/A	0.035 W/(m · K)

ELECTRICAL BOX INSERT

TENMAT



Application

Lining socket boxes in fire and acoustically rated plasterboard partitions

Fixing

Push fit

Performance

Fire tested to BS EN 1364-1 & BS EN 1363-1
Acoustically tested to ISO 140-3, up to 67dB
Air Leakage tested to BS EN 1026

Material

Fire resistant mineral fibre

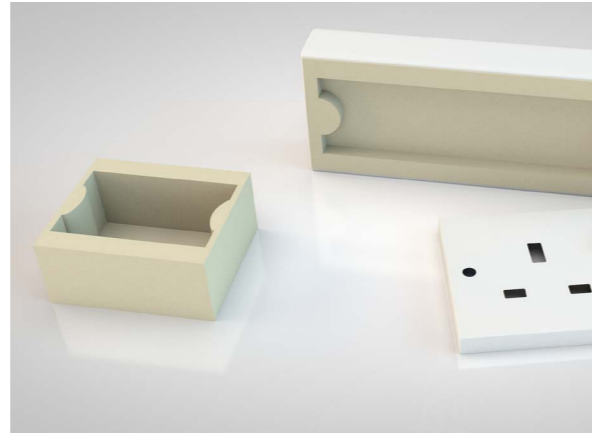
Sizes (mm)

35 & 47 (Single & Double Socket Boxes)

Order codes

EBX + Size + /Single or Double

eg. **EBX35/Single** (35mm deep single socket box)



PUTTY PAD

PYROPLEX



Application

Lining of metallic and thermoplastic electrical outlets in masonry and plasterboard partitions

Fixing

Press into place

Performance

Fire tested to BS EN 1364-1 & BS EN 1363-1

Material

Intumescent putty

Sizes (mm)

170x170 and 230x170
Other sizes on application

Thickness (mm)

3.25mm

Order codes

PUTPAD170 - 170x170mm

PUTPAD230 - 230x170mm



DOWNLIGHTER COVER

TENMAT



Application

Cover downlight fixtures in ceiling penetrations

Fixing

Positioned in aperture

Performance

Fire tested to EN 1365-2, 13501-2 & BS 476
Acoustically tested to EN ISO 140/717

Material

Fire resistant mineral fibre

Sizes (mm)

150 x 150

(for downlighters with a cut-out size of 50-75mm)

200 x 200

(for downlighters with a cut-out size of 75-100mm)

250 x 250

(for downlighters with a cut-out size of 100-140mm)



Order codes

DC/ + Size

eg. **DC/200x200** (200mm x 200mm)

Test Data

Report Type	Fire Test Lab	Report Number	Test Standard	Fire Rating
Classification	Giordano	311120/3599FR	EN 13501-2	120 mins
Fire Test	Giordano	311120/3599FR	EN 1365-2	120 mins
Fire Test	BRE	TE94667	EN 1365-2	60 mins
Assessment	Exova Warringtonfire	A02105	BS 476	60 mins
Fire Test	BRE	FG8962/208217	BS 476	60 mins
Fire Test	BRE	FG8962/208217	BS 476	60 mins
Fire Test	Exova Warringtonfire	IF99029	BS 476	60 mins
Fire Test	Exova Warringtonfire	IF03028	BS 476	120 mins
Assessment (Aus/NZ)	BRANZ	FAR2032	AS1530.4	60 mins
Application Report	BRANZ	FC2032	AS1530.4	60 mins
Acoustic Test	BRE	213942	EN ISO 140/717	Pass

LOFT COVER

TENMAT

**Application**

Cover downlight fixtures in ceiling penetrations

Fixing

Positioned over light fitting to allow safe installation of loft insulation.

Performance

Tested to EN/IEC 60598
Certified IP6 Dust Tight

Material

Fire resistant mineral fibre

Order code

LC/ + Type

eg. LC/FF120 (150mm x 225mm x 275mm)

**Sizes (mm)**

Type	Nominal Internal Height	Nominal Diameter (top)	Nominal Diameter (base)
FF120	150	225	275
FF130	150	85	240 - 250

Test Data

Report Type	Fire Test Lab	Report Number	Test Standard	Fire Rating
Reaction to Fire (FF120)	BRE	302306-2	EN 13501-1	A1
Flammability Test	LIA	L12459A	EN 60695	Pass
Heat Build Up Tests	LIA	L9807C, L10539B (Amd1), L9807B, L10539 (Amd2)	EN 60598	Pass
Heat Build Up Tests and Flammability	LIA	L11911 Amd2	UL1598 & IEC60598	Pass
IP6X Resistance Test	LIA	L12459	EN 60598	Pass
Reaction to Fire	BRE	302306-1	EN ISO 1182:2010	-
Air Tightness	Exova	P09020/01	EN 1026:2000	-
Air Tightness	Exova	P11032	EN 1026:2000	-
Lumen Output	LIA	L13178	EN 60598	-
Energy Efficiency	Exova	TT/F09323-1	-	-

LUMINAIRE COVER

TENMAT

**Application**

Cover recessed luminaire or florescent module fixtures

Fixing

Positioned above modular light fitting

Performance

Fire tested to BS 476, EN 1365-2 & UL263

Material

Fire resistant mineral fibre

Sizes (mm)

670x730x155 (600x600), 1380x750x140 (1200x600)

Order code

LUM/ + Size

eg. LUM/600x600 (607 x 730 x 155)

Test Data

Report Type	Fire Test Lab	Report Number	Test Standard	Fire Rating
Classification	Giordano	311120/3599FR	EN 13501-2	120
Fire Test	Giordano	311120/3599FR	EN 1365-2	120
Classification	UL	20120928-R25019	UL 263 & ULC S101-07	Up to 120
Fire Test	UL	R25019/12NK05094	UL 263	Up to 120
Assessment	Exova	A04038 Rev C	BS 476	60
Fire Test	BRE	FG8962/208217	BS 476	60
Fire Test	Exova	IF03060	BS 476	60
Fire Test	Exova	IF05045	BS 476	60
Fire Test	Exova	IF03076	BS 476	60

LOW PROFILE VENT DUCT FIRE SLEEVE

TENMAT



Application

Around rectangular vent duct penetrations in solid walls, floors and plasterboard partitions

Fixing

Cut and positioned around duct

Performance

Fire tested to EN 1366-3 & BS 476
ETA - 12/0332
CE Marked

Material

Graphite & mineral fibre mix

Order code

VDS + Size eg. VDS110x54 (110mm x 54mm)

Examples of Approved Applications

Single or double layer plasterboard. Approved with or without cavity insulation for all duct sizes listed.

Multiple duct penetrations, including side-by-side and stacked. Approved for partitions and fire batt applications (rectangular ducting only).

Independently Third Party Assessed Approved Applications:

30 Minute Partitions:

Single Board from 72mm upwards

60 Minute Partitions:

Single & Double Board Systems
Single Layer Ablative Coated Fire Batt

120 Minute Partitions:

Double Board Systems
Double Layer Ablative Coated Fire Batt

Multiple Duct Penetrations:

Up to 3No, side by side ducts
Up to 2No. stacked ducts
Mixed Sizes

Sizes (mm)

Duct Size	Nominal Thickness	Nominal External Width/Diameter	Nominal External Height	Length	Fire Rating
204x60	10-15	228	89	180	Up to EI120
220x90	10-15	244	124	180	Up to EI120
110x54	10-15	134	83	180	Up to EI120
100 (103) Circular	15	134	-	180	Up to EI120
125 (127) Circular	15	160	-	280	Up to EI120
150 (155) Circular	20	200	-	280	Up to EI120

Test Data

Report Type	Fire Test Lab	Report Number	Construction	Fire Rating
CE Certificate	Exova BM Trada	1224-CPR-0341	Plasterboard, Concrete Walls	CE Approved
European Technical Approval	Exova BM Trada	ETA - 12/0332	Plasterboard, Concrete Walls	EI120
Classification	Exova Warringtonfire	CR13219 Rev A	Plasterboard	EI120
Fire Test	Exova Warringtonfire	BMT/FER/F13219	Plasterboard	EI120
Fire Test	Exova Warringtonfire	BMT/FEI/F15040	Plasterboard	EI120
Assessment	IFC Group	PAR/14600/01	Plasterboard	30-120
Assessment	IFC Group	PAR/15162/01	Ablative Coated Fire Batt	60-120
Aus/NZ Assessment	Exova Warringtonfire	33654700.2	Plasterboard, Concrete walls	60-120

FIRE RATED AIR VALVES

TENMAT



Application
Fire-rated ceilings requiring recessed ceiling air valves

Fixing
Screw fix

Performance
Meets requirements of Approved Document B

Material
Intumescent material

Sizes (mm)
80, 100, 125, 150, 200

EXTRACT VALVE

Order code
EV + Size eg. EV80 (80mm diameter)

Test Data

Report Type	Fire Test Lab	Report Number	Construction	Fire Rating
Fire Test	The Building Test Centre	BTC 18074F	Timber Joist/GTEC Fire Board Floor	60
Fire Test	Chiltern Fire	IF10090	Plasterboard	60

SUPPLY VALVE

Order code
SV + Size eg. SV80 (80mm diameter)

CEILING FAN FIRE STOP

TENMAT



Application
Protection for holes created by ceiling fans

Fixing
Screw fix

Performance
Fire tested to BS EN1365-2

Material
Intumescent material

Sizes (mm)
100, 125

Order codes
CFFS/ + Size eg. FF107CFFS/100 (100mm diameter)

Test Data

Report Type	Fire Test Lab	Report Number	Construction	Fire Rating
Fire Test	Warrington Fire	WF 394530	Metal Web Joist	30
Fire Test (Indicative)	Warrington Fire	WF 391714/A	Metal Web Joist	30
Fire Test	Warrington Fire	WF 422978	I-beam Joist	30

VENTILATED CAVITY FIRE BARRIERS

TENMAT

The following test data is in relation to the Ventilated Cavity Barriers on the following pages 21 - 25.

Test Data

Fire Test Lab	Report Number	Construction	Fire Rating
BRE	243-505	Timber Frame	30
Exova Warringtonfire	A06037	Timber Frame	30-60
Exova Warringtonfire	A10030	Various	30-120
Exova Warringtonfire	A12315	Various	30-60
Exova Warringtonfire	IF06005	Timber Frame	30
Exova Warringtonfire	IF06013	Timber Frame	30-60
Exova Warringtonfire	IF06040	Concrete/Blockwork	120
Exova Warringtonfire	IF07077	Timber Frame	30
Exova Warringtonfire	IF08038	Block	90-120
Exova Warringtonfire	IF08052	Mineral Fibre/Timber Frame	30
Exova Warringtonfire	IF09011	Cement Board/Concrete	90
Exova Warringtonfire	IF09032	Concrete/Blockwork	30-90
Exova Warringtonfire	IF09093	Concrete/Blockwork	30-60
Exova Warringtonfire	IF10048	Concrete/Blockwork	120
Exova Warringtonfire	IF10060	Rigid Insulation & Blockwork	120
Exova Warringtonfire	IF11012	Concrete/Blockwork	120
Exova Warringtonfire	IF12016	Block	30-60



FF102/25

Application
To suit up to 25mm cavities

Fixing
Screw fix, with non-combustible nails or screws (Maximum screw head diameter 11.5mm), must be fixed at maximum 250mm centres

Performance
Fire tested to BS 476-20:22, EN 1363-1& EOTA TR31 Assessed to ASFP TGD19

Material
Intercalated graphite encased in aluminium foil

Length (mm) / Size (mm)
1000 / 35x4

Order code
FF102/25

Approved Applications

Application	Construction	Fire Rating Horizontal		Fire Rating Vertical	
		/25	/50	/25	/50
Fixed to non-combustible constructions	Brick, Block, Masonry	120	120	120	120
Fixed to non-combustible constructions	Aerated Concrete Block	120	120	120	120
Fixed onto existing cavity insulations	Mineral Fibre on Concrete	-	90	-	90
Fixed onto existing cavity insulations	Mineral Fibre on Timber Frames	-	30	-	60
Fixed to timber batten	Timber batten on Timber Frame	30	30	60	30
Fixed to combustible timber constructions	Timber Frame	30	E190	60	60

FF102/50

Application
To suit up to 50mm cavities

Fixing
Screw fix, with non-combustible nails or screws (Maximum screw head diameter 11.5mm), must be fixed at maximum 250mm centres

Performance
Fire tested to BS 476-20:22, EN 1363-1& EOTA TR31 Assessed to ASFP TGD19

Material
Intercalated graphite encased in aluminium foil

Length (mm) / Size (mm)
1000 / 75x6

Order code
FF102/50

VENTILATED FIRE BARRIER

TENMAT



Application

To suit up to 500mm cavities

Fixing

Screw fix with non-combustible screws and brackets (Maximum screw head diameter 11.5mm. Sections 250mm or less requires 1 bracket, sections over 250mm requires 2 brackets)

Performance

Fire tested to BS 476-20:22, EN 1363-1, EN 1364 & EOTA TR31
Assessed to ASFP TGD19

Material

High Density Mineral Fibre 110kg/m³

Approved Applications

Application	Assessed Construction Type	Fire Rating Horizontal	Fire Rating Vertical
Non-Combustible Constructions	Brick, Block, Masonry	30, 60, 90	30, 60, 90
Non-Combustible Constructions	Aerated Concrete Block	30, 60, 90	30, 60, 90
Mineral Fibre Insulation	Mineral Fibre on Concrete	90	90
Mineral Fibre Insulation	Mineral Fibre on Timber Frame	30	60
Kingspan K15 Rigid Insulation	Fitted within Kingspan K15	30, 60, 90, 120	30, 60, 90, 120
Combustible Timber Constructions	Timber Frame	30	60

Length (mm)

1000

Size (mm)

75xThickness (Total Cavity less 44mm Air Gap)

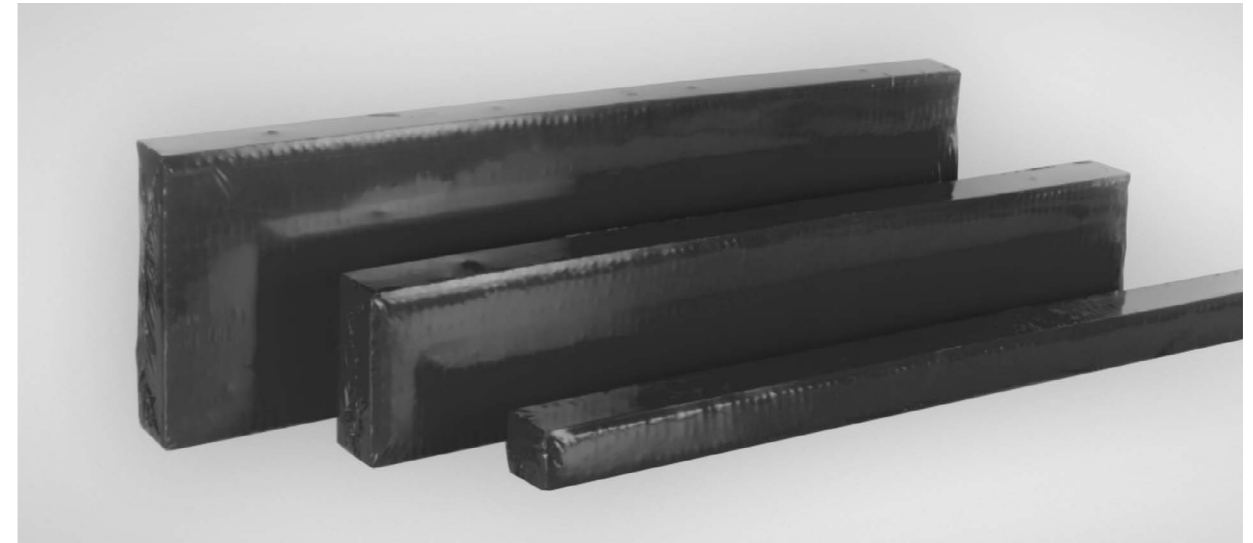
Order code

VFBPLUS + Thickness

Note: All VFB blocks are made to order

VENTILATED FIRE BARRIER

TENMAT



Application

To suit up to 300mm cavities

Fixing

Screw fix with brackets & pigtail screws at 250mm centres, 4 per metre (Number of brackets dependent on cavity size)

Performance

Fire tested to BS 476-20:22, EN 1363-1, EN 1364 & EOTA TR31
Assessed to ASFP TGD19

Material

High Density Mineral Fibre 110kg/m³

Approved Applications

Non-combustible constructions
Insulation used either side of blockwork
In SFS systems

Length (mm)

1000

VFB 60/60

Size (mm)

75xThickness (Total Cavity less 25mm Air Gap)

Order code

VFB60/60 + Thickness

Note: All VFB blocks are made to order

VFB 120/120

Size (mm)

75xThickness (Total Cavity less 25mm Air Gap)

Order code

VFB120/120 + Thickness

Note: All VFB blocks are made to order

NON-VENTILATED FIRE BARRIER

TENMAT



Application
Vertical rainscreen/cladding cavities

Fixing
Screw fix with brackets

Performance
Fire tested to BS 476-20

Material
Mineral wool

Length (mm)
1000

Size (mm)
100xThickness (Cavity plus 10mm)

Order code
NVFB



CAVITY FIRE BARRIER ON A ROLL

TENMAT



Application
Timber and masonry cavities. Maintains air gap once fitted. Use instead of traditional methods, e.g. cavity trays, cavity socks and weep holes

Fixing
Stapled in place at 250mm centres

Performance
Fire tested to BS 476-20 & BS EN 1363-1

Material
Intercalated graphite in PVC sleeve

Length
6.3 linear metre roll

Sizes (mm)
75x4

Order code
CFB



LINEAR GAP SEAL

TENMAT



Application
Sealing construction joints in fire rated walls and floors

Fixing
Push fit

Performance
Fire tested to BS EN 1363-1 & BS EN 1366-4

Material
Intercalated graphite encased in PVC

Order codes
FF108LGS + Size
e.g. FF108LGS15x15-1 (15mmx15mm)



Sizes (mm) - 1 Seal Required

Seal Size	Min. Gap	Max. Gap	Fire Rating: Floors	Fire Rating: Walls
15x15 (15x15-1)	7.5	13	EI240	EI240
25x20 (25x20-1)	13	22	E240/EI30	E240/EI30
40x20 (40x20-1)	22	35	E240/EI30	E240/EI30
60x45 (60x45-1)	35	50	E240/EI45	E240/EI45
85x45 (85x45-1)	50	70	E240/EI45	E240/EI45
120x60 (120x60-1)	70	100	E240/EI45	E240/EI45

Sizes (mm) - 2 Seals Required

Seal Size	Min. Gap	Max. Gap	Fire Rating: Floors	Fire Rating: Walls
30x15 (30x15-2)	15	25	E240/EI180	E240/EI180
25x20 (25x20-2)	13	22	E240/EI180	E240/EI120
40x20 (40x20-2)	22	35	E240/EI180	E240/EI120
60x40 (60x40-2)	35	50	E240/EI180	E240/EI120
85x40 (85x40-2)	50	70	E240/EI180	E240/EI120
120x50 (120x50-2)	70	100	E240/EI180	E240/EI180

FIRE RATED & ACOUSTIC ACRYLIC SEALANT

NORSEAL



Application

Gaps around service penetrations, door castings and sills, fire protection boards and partitioning and low movement construction joints

Fixing

Bonds once cured

Material

Fire rated acrylic sealant

Colour

White

Sizes

310ml tube, 600ml foil

Shelf Life

18 months from date of manufacture

FIREWIZARD

Performance

Fire tested to EN 1366-4
IAC Gold Certified Product
Movement capability ≤ 7.5%

Order codes

INTW (310ml tube/White)
INTWF/600 (600ml foil/White)

NORSEAL ACOUSTIC

Performance

Fire tested to EN 1366-4
Acoustically tested to ISO 10140-2
IAC Gold Certified Product
Movement capability ≤ 7.5%

Order codes

NOR115W (310ml tube/White)
NOR115F/600 (600ml foil/White)

INTUMESCENT TAPE

NORSEAL



Application

Dry wall track at interface with construction soffits and floors

Fixing

High tack adhesion

Performance

Non toxic, requires no tools to apply

Material

Polyisobutylene (PIB)

Length

3.6 linear metre roll

Colour

White

Sizes (mm)

25x3

Shelf Life

18 months from date of manufacture

Order code

IT25x3

PYROCOUSTIC SEALANT / TROWEL GRADE COATING

FSI



Application

Gaps and joints between flexible and rigid walls, rigid floors, multi service penetrations, blank openings, head of walls and for use with the FSI Fire Batt

Fixing

Bonds once cured

Performance

Fire tested to EN 1366-3 & EN 1366-4
Classified in accordance with EN 13501-1 & EN 13501-2
Certifire CF 517
CE Marked - ETA 13/1069 & ETA 13/1070
Acoustically tested to EN 10140
Air Permeability tested to EN 1026
VOC Tested - ASTM D2369-10, LEED 2009-EQ041
SCAQMD

Material

Halogen free sealant

Colour

White (W)
310ml Cartridge also available in Grey (G)/Brown (BR)
600ml foil also available in - Grey (G)

Sizes/Types

310ml/900ml Cartridge (C) / 400ml/600ml Foil (F) / 5kg/10kg/20kg Pail (P)

Shelf Life

18 months from date of manufacture

Order code

PYRO + Size + Type + /Colour
e.g. PYRO310C/W (310ml Cartridge, White)

MASTERSEAL

SEALMASTER



Application

Masonry or plasterboard constructions, areas around door hardware and gaps in ceilings and walls up to 25mm.

Fixing

Bonds once cured

Performance

Up to 60 minutes fire resistance

Material

Fire rated acrylic sealant

Colour

White

Sizes

310ml tube



Shelf Life

24 months from date of manufacture

Order code

MASTW (310ml tube/White)

CE INTUMESCENT ACRYLIC

PYROPLEX



Application

Gaps at the head of flexible wall constructions, gaps and joints between rigid wall and floor constructions, metal pipe service penetrations through rigid wall and floor constructions, up to ø150mm, with and without combustible insulation and electrical cables

Fixing

Bonds once cured

Performance

Fire tested to EN 1366-3 & EN 1366-4
CE Marked
ETA 13/0659 - linear seals
ETA 13/0660 - penetration seals

Material

Halogen free sealant

Colour

White

Sizes

310ml Tube, 600ml foil



Shelf Life

24 months from date of manufacture

Order code

PYRAC310WTCE (310ml tube/White)

PYRAC600WTCE (600ml foil/White)

FIRE RATED SILICONE SEALANT

PYROPLEX



Application

Internal and external use, linear gap joints, around metallic pipe penetrations, around plastic pipe or cable penetrations which have been protected with the recommended Pyroplex Pipe Collar and Pipe Wrap

Fixing

Bonds once cured

Performance

Fire tested to EN 1366-4
Classified in accordance with EN 13501-2

Material

Halogen free sealant

Colour

White

Sizes

310ml tube



Shelf Life

12 months from date of manufacture

Order code

PFRS310WT

PRESSURE EXERTING SEALANT

PYROPLEX



Application

Plastic flammable pipe ø20mm - ø55mm, including PVC, PE,PP and ABS and around single and bunched cable penetrations

Fixing

Bonds once cured

Performance

Fire tested to EN 1366-3
Classified in accordance with EN 13501-2
IFC Certificate IFCC 1029

Material

Halogen free sealant

Colours

Grey

Size

310ml Tube



Shelf Life

12 months from date of manufacture

Order code

PYRPES310GY

FF197

NORSEAL



Application

Linear gaps throughout the fire rated areas of a building

Fixing

Bonds once cured

Performance

Fire tested to EN 1366-4, EN 13501-2
Classified to DIN4102-1

Material

PU Foam

Colour

Red

Size

750ml canister



Order code

FRFOAM197 - Gun Grade Application

FRFOAM197A - Hand Held Application

FR PU FOAM

PYROPLEX



Application

Cavity joints between doors and window frames and linear joints.
Non-combustible services, including ducts and cable trays.

Fixing

Bonds once cured

Performance

Fire tested to BS 476-20/22 & EN 1366-4
Certifire CF828
Classified to BS EN 13501-2

Material

PU Foam

Colour

Pink

Size

750ml canister



Order code

PFRF750GUN - Gun Application

PFRF750A - Hand Held Application

GLOSSARY OF TERMS

ALPHABETICAL

Air Permeability

The rate of airflow passing perpendicularly through a known area under a prescribed air pressure differential between the two surfaces of a material.

Approved Applications

Applications that have been included in the ETA and/or assessment reports for the product.

Aperture

An opening created by a cut-out through a wall, floor or ceiling that is to receive glazing or other infilling.

Assessment

Application of expert knowledge to data established by a series of fire tests of a door leaf construction or particular design type to extend the scope of the results.

BBA (British Board of Agrément)

BBA is a UKAS accredited provider of independent third party certification in the construction industry.

BM Trada

BM Trada provides third-party certification fire services for manufacturing, installation and maintenance service for fire doors.

BRE

BRE is an independent third party certification provider in the construction industry.

CE Marked

CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area.

Certifire

Certifire is an independent third-party certification scheme that assures performance, quality, reliability and traceability of products and systems.

ETA

The European Technical Assessment (ETA) is an alternative for construction products not covered by a harmonised standard. It is a document providing information on their performance assessment.

Exova Warringtonfire

Warringtonfire is a UKAS accredited provider of independent third party certification.

Fire Resistance

Ability of a component or construction of a building to meet for a stated period of time some or all of the appropriate criteria specified in BS476 Pt.22 or BS EN 1634.

IAC Gold Certified

"Indoor Air Comfort GOLD - certified product" shows additional compliance of product emissions with the criteria of many of the voluntary specifications issued by most relevant ecolabels and similar specifications in the EU. Therefore certified products are those with the best-in-class low emissions, so good for indoor air quality.

IFC Certificate

IFC Certification Ltd is a UKAS accredited and internationally recognised provider of high quality customer focused independent third party certification.

Intercalated Graphite

One of the three main types of intumescent materials which produces an exfoliated, fluffy material during expansion. The activation temperature is typically around 200 °C.

Polyisobutylene (PIB)

A vinyl polymer, also known as butyl rubber.

PU Foam (Polyurethane Foam)

A plastic material used especially to make paint or substances which prevent water or heat from passing through.

PVC (Polyvinyl Chloride)

A thermoplastic material used for many purposes, available in rigid and flexible form.

Test Evidence / Primary Test Evidence

Evidence of the performance of a fire door that is derived from a full scale fire test on that particular product design by the test sponsor.

STANDARDS

ALPHABETICAL

Approved Document B

Fire safety: Approved Document B. Building regulation in England covering fire safety matters within and around buildings.

ASFP TGD19

Fire resistance test for 'open-state' cavity barriers used in the external envelope or fabric of buildings

BS 476-20:1987

Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction (general principles).

BS 476-22:1987

Methods for determination of the fire resistance of non-load-bearing elements of construction.

BS 7671-42:52

Requirements for Electrical Installations.

BS EN 1026

Air permeability test method. Windows and doors.

BS EN 13501-2:2016

Fire classification of construction products and building elements. Classification using data from fire resistance tests, excluding ventilation services.

BS EN 1363-1:2012

Fire resistance tests. General requirements.

BS EN 1364-1:2015

Fire resistance tests for non-load-bearing elements. Walls.

BS EN 1365-2

Fire resistance tests for loadbearing elements. Floors and roofs.

BS EN 1366-3:2009

Fire resistance tests for service installations. Penetration seals.

BS EN 1366-4:2006 + A1:2010

Fire resistance tests for service installations. Linear joint seals.

BS EN 1634-1:2014 + A1:2018

Fire resistance and smoke control tests for door and shutter assemblies, openable windows, and elements of building hardware. Fire resistance test for door and shutter assemblies, and openable windows.

BS EN 1634-3:2004

Fire resistance and smoke control tests for door and shutter assemblies, openable windows, and elements of building hardware. Smoke control test for door and shutter assemblies.

BS EN ISO 10140-2:2010

Acoustics. Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation.

BS EN/IEC 60598-1

Luminaires. Part 1. General requirements and tests.

DIN 4102-1

Fire behaviour of building materials and elements Part 1: Classification of building materials Requirements and testing.

UL 263

Standard for Fire Tests of Building Construction and Materials.



Fire
resistance



Acoustic
resistance



Tested to
30 minutes



Tested to
60 minutes



Tested to
90 minutes



Tested to
120 minutes



Tested to
240 minutes

All information is for guidance purposes only. Information is offered in good faith, but cannot be used in place of current test evidence.

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