Envirograf®
Passive Fire Protection

ELECTRICAL AND PLUMBING

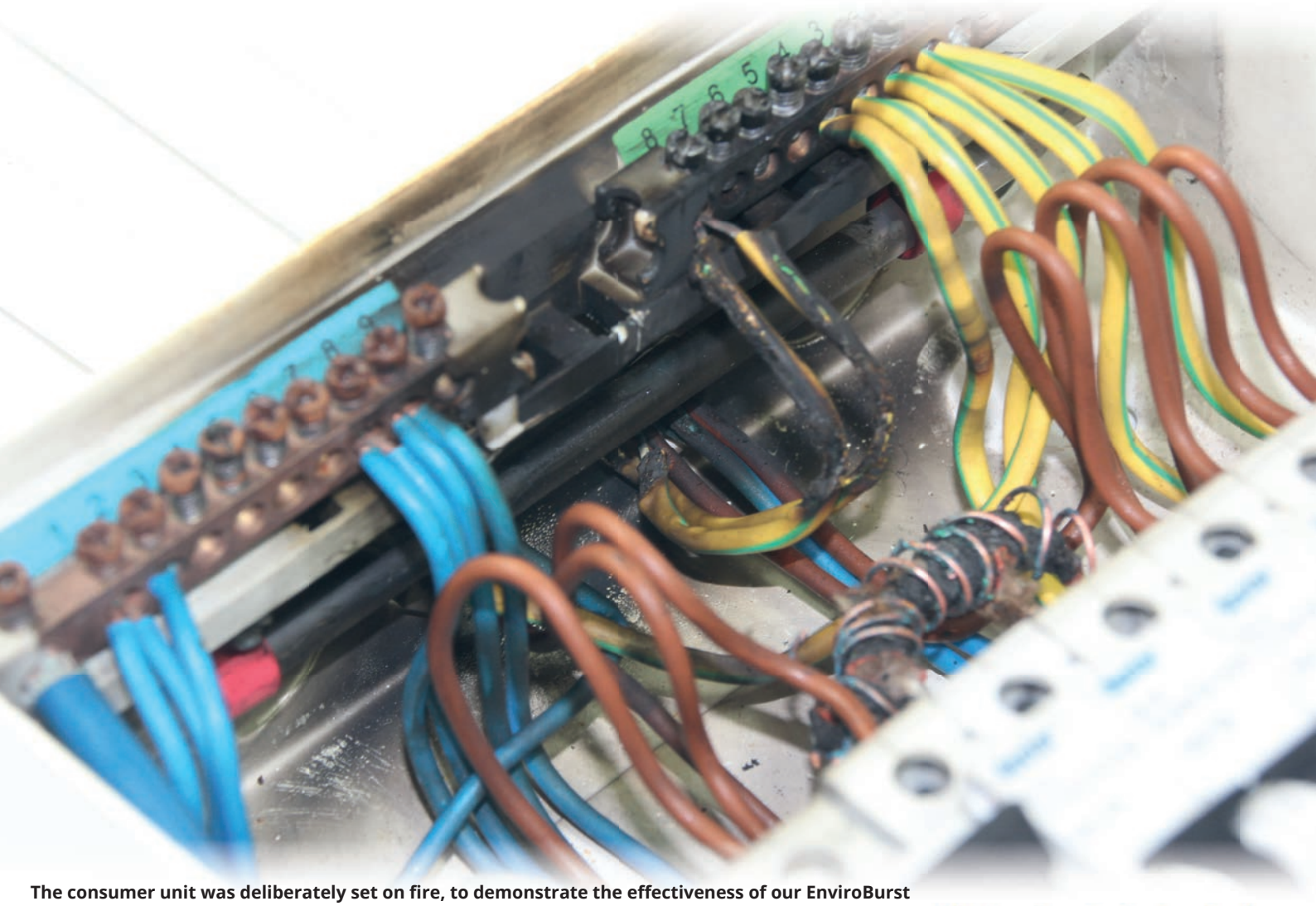
Innovators - Developers - Manufacturers

Passive Fire Prevention Products

PASSIVE FIRE PROTECTION PRODUCTS FOR ELECTRICAL AND PLUMBING SERVICES

PRODUCTS TO MEET 17TH EDITION IET WIRING REGULATIONS, DOCUMENT B & E OF BUILDING REGULATIONS

TESTED TO EUROPEAN STANDARDS



The consumer unit was deliberately set on fire, to demonstrate the effectiveness of our EnviroBurst

All Products Patented

We're proud members of:

FPA Fire Protection Association MEMBER 2016 · The British Fire Consortium · Affiliated to IFPO Entii Ad Defendere · Registered Member ECA · ELECSA Part of the ECA Group Part P Approved Contractor www.elecsa.co.uk

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ISO 9001 QUALITY ASSURANCE

Committed to excellence in built-in fire protection

Working with Fire Officers, Architects, Specifiers and Contractors
to promote use of passive fire protection in buildings

ISO 9001 QUALITY ASSURANCE

Passive Fire Protection Experts

Since 1983

Products tested and Certified

Majority of our products are tested to meet both UK and European requirements. Our manufacturing process is accredited to ISO 9001 standard.

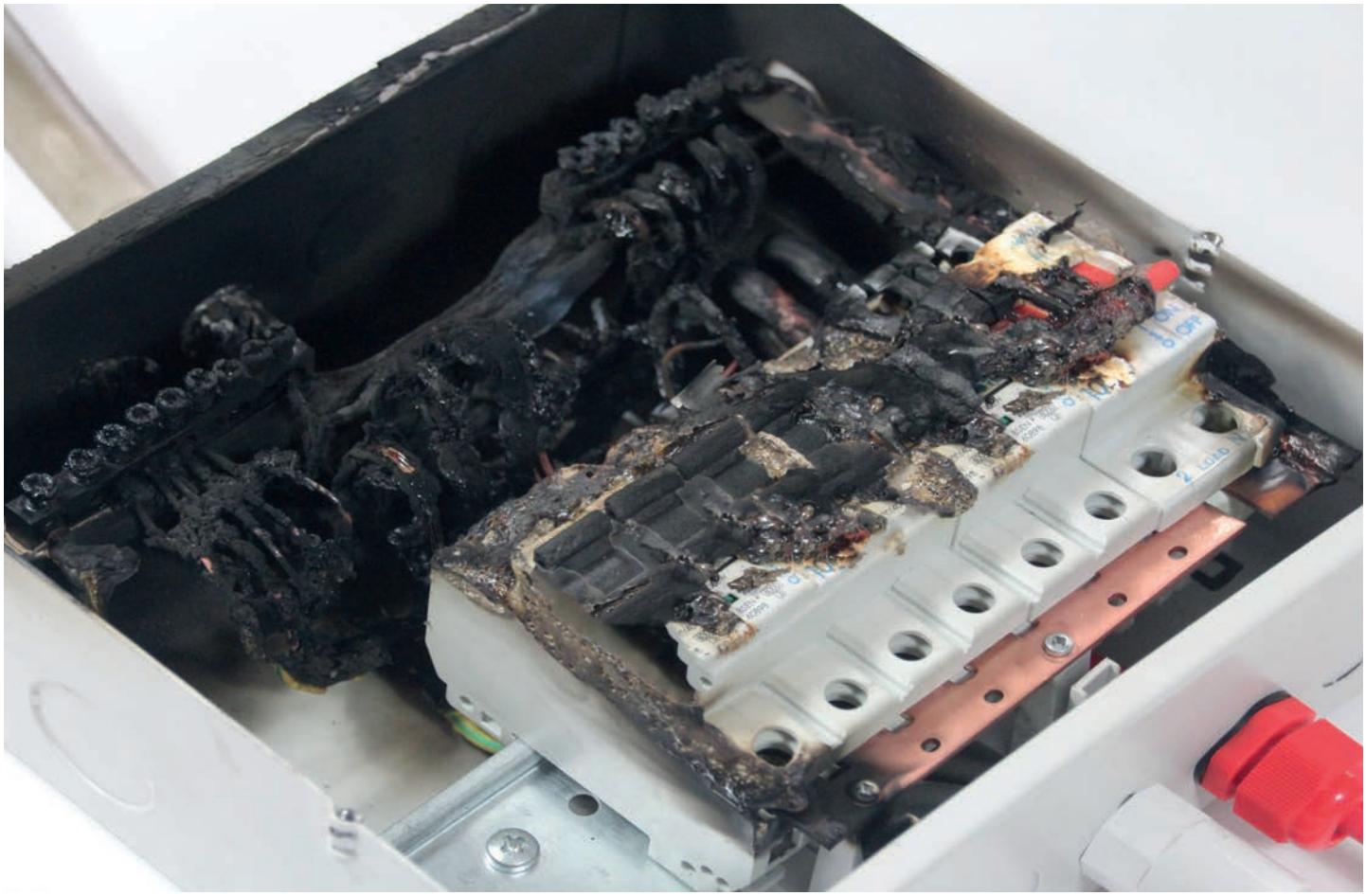
British Made Products

We're proud that our manufacturing process takes place only in Britain, therefore we can contribute more to our local society.

BRITISH MADE PRODUCT

Helping to meet 17th Edition of IET Wiring Regs

CONSUMER UNIT PROTECTION



The consumer unit was deliberately set on fire, to demonstrate the effectiveness of our gaskets.

As of the 5th of January 2015, the Amendment 3 to BS7671:2008 Requirements for Electrical Installation (IET Wiring Regulation) was published, which outlined a new set of regulations that will affect all of the consumer units put in the new builds in UK.

PRODUCT RANGE INCLUDES:

ELECTRICAL CONSUMER UNIT METAL COVER

ENVIROBURST AUTOMATIC FIRE SUPPRESSION SYSTEM

FIRE RATED LININGS FOR SEALING CABLE ENTRIES FOR METAL CONSUMER UNITS

INSULATION LINER FOR METAL CONSUMER UNITS

The amendment states:

“Within domestic (household) premises, consumer units and similar switchgear assemblies shall comply with BS EN 61439-3 and shall:
I. Have their enclosures manufactured from non-combustive material, or
II. Be enclosed in a cabinet or enclosure constructed of non-combustible material and complying with regulation 132.12.”

CASE STUDY

Clandon Park's Marble Hall 2015 fire started in a consumer unit

Recent fire that devastated an 18th Century mansion near Guildford started accidentally and was caused by a fire in the consumer unit.

The blaze completely destroyed the the building, reducing it to a charred shell.

"A lack of fire protection to the fuse cupboard and the stately home's historic design allowed the fire to spread" the Surrey Fire and Rescue Service report said.

ELECTRICAL CONSUMER UNIT AND DISTRIBUTION BOARD FIRE PROTECTION SYSTEM

PRODUCT 20

Easy way to protect existing plastic or metal units.

Electrical Fire Protection Units for plastic consumer units & distribution boards.

Plastic units have always been a fire hazard, as normally they are placed in escape routes in flats, houses and intakes etc. Overloading of cables and fuses can cause overheating, leading to fires which can easily spread out of control.

Envirograf® ECU covers are made in different sizes to suit your consumer unit & distribution board. Around the unit is a red band of cloth housing intumescent that can be cut with a sharp knife to accommodate cables, conduits and trunking which are already fitted to your units, forming a complete fire seal barrier.

The covers are lined with Envirograf® fireproof paper covered with a PVC material. This product is essential in preventing fire damage and, more importantly, in allowing time to evacuate the building, saving lives.

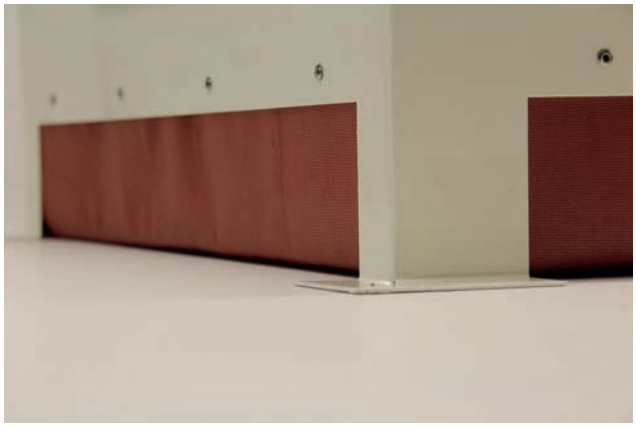
Can be mounted with door opening up or down.
Standard colour: White. Can be made in brown.

Ordering References

Electrical Consumer Unit Metal Cover

ECU2	340mm	480mm	180mm	internal
ECU3	580mm	280mm	180mm	internal
ECU4	390mm	280mm	180mm	internal
ECU5	330mm	260mm	130mm	internal
ECU6	410mm	245mm	140mm	internal

Any non-standard size can be made to order.

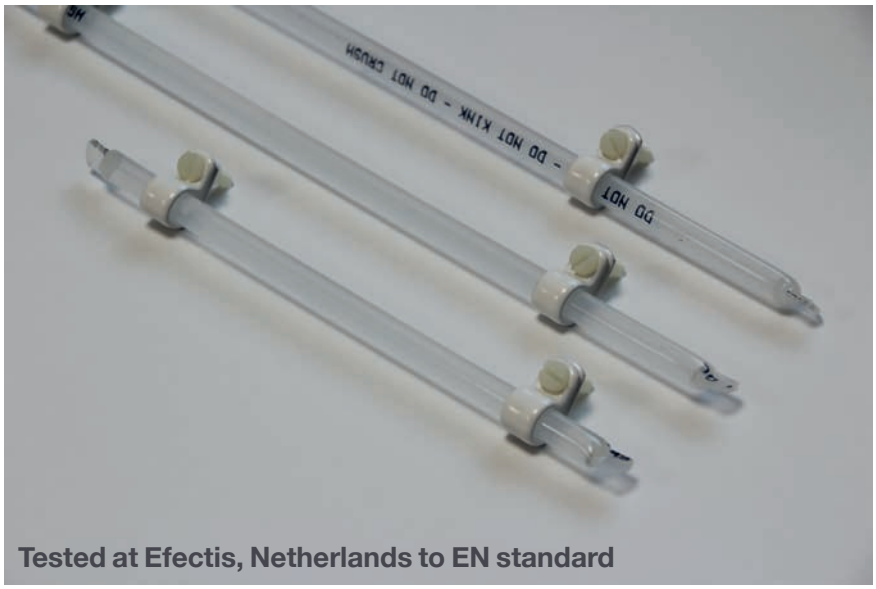


Protective material which can accommodate cables etc.

Can be easily opened and closed when necessary

ENVIROBURST AUTOMATIC FIRE SUPPRESSION SYSTEM

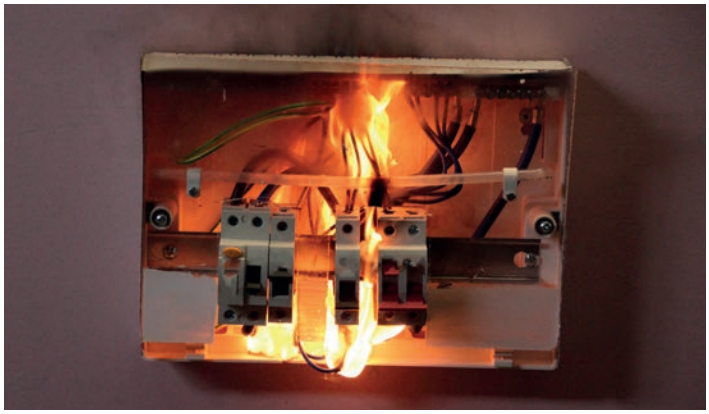
PRODUCT 20

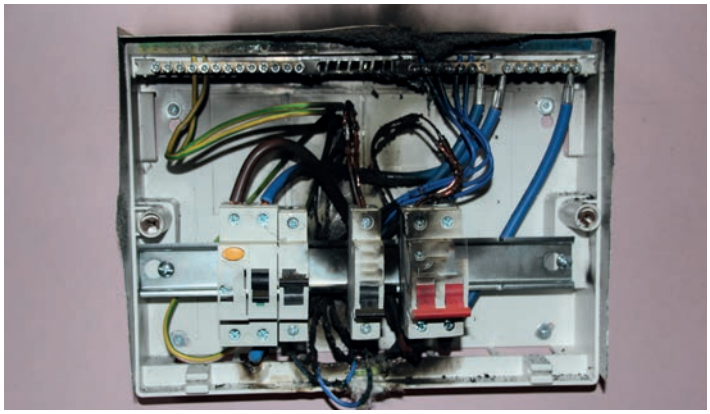


Tested at Efectis, Netherlands to EN standard

EnviroBurst Automatic Fire Suppression System consists of a sealed thermoplastic tube which will begin to soften when exposed to high temperatures. Once the flame reaches the tube, it will burst, releasing a liquid extinguishant into the heart of the fire.

The system is ideal for protecting enclosed areas which pose a high risk of igniting, such as distribution boards or consumer units which can be prone to overheating. It is designed to be compact and lightweight, meaning it is easily adaptable to a wide range of purposes.

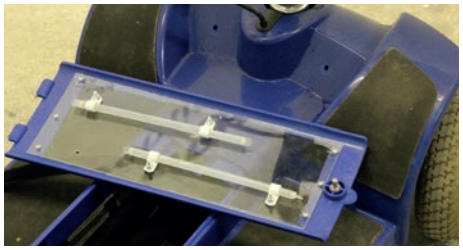




The consumer unit was deliberately set on fire, to demonstrate the effectiveness of our EnviroBurst

Application Information

The tube units are supplied with fixing clips, nuts and bolts. Fixings should be placed about 30-40mm from both ends.
Take off the lid, drill 2 holes near the top. Fit the clips around the tube & bolt to the inside of the lid. Refit the lid back.



THIS PRODUCT CAN ALSO BE USED ON MOBILITY SCOOTERS

Performance

Tested at Efectis, Netherland.
Test No. 2016-Efectis-R000075

Ordering References

EnviroBurst fire suppression system

EBU0	150mm long
EBU1	195mm long
EBU2	300mm long
EBU3	505mm long

Other sizes made and stocked.

FIRE RATED LININGS FOR SEALING CABLE ENTRIES TO METAL CONSUMER UNITS

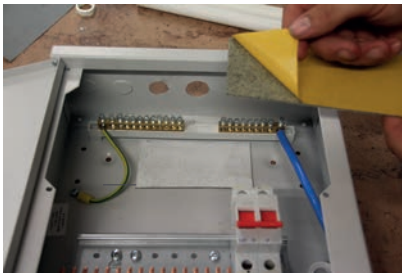
PRODUCT 20

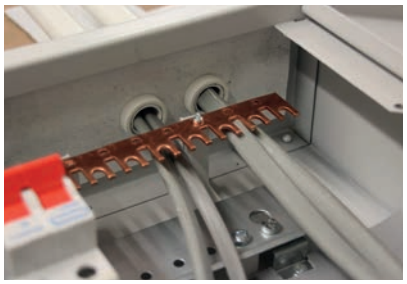
WHY ARE THEY IMPORTANT?

The intent of Regulation 421.1.201 is considered to be, as far as is reasonably practicable, to contain any fire within the enclosure or cabinet and to minimise the escape of flames, and this is as true of metal consumer units as it is of plastic ones.

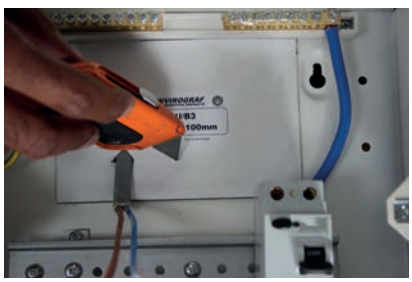
Envirograf® manufactures a range of intumescent linings, which in the event of a fire will seal up the openings in the non-combustible consumer units (cable entries, for example), containing the fire within the non-combustible box.

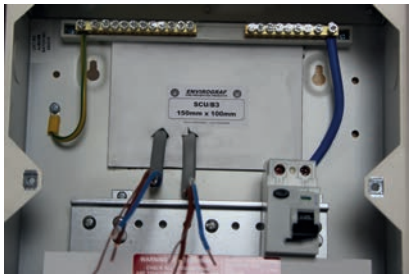
Top and bottom cable entry lining (SCU)





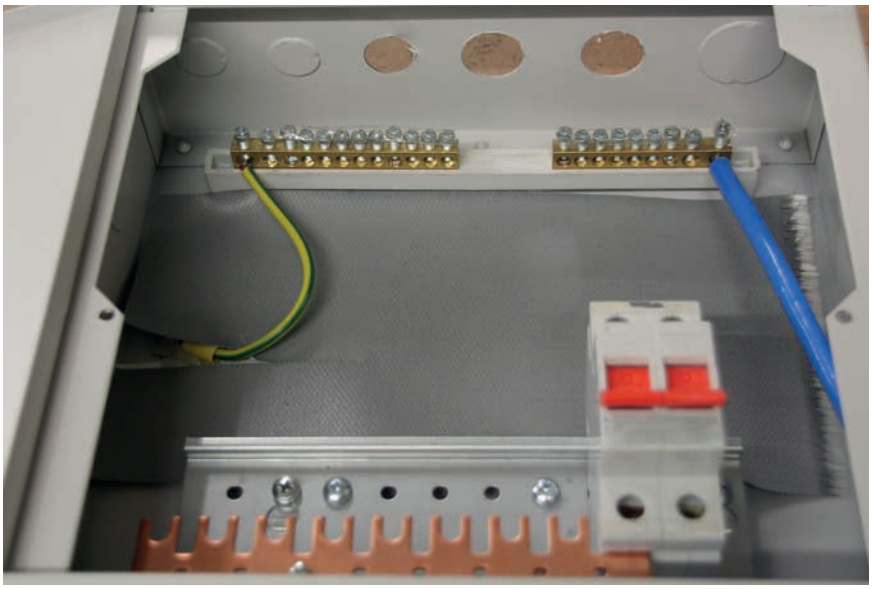
Back Entry Intumescent liner (SCU/B)





INSULATION LINER FOR METAL CONSUMER UNIT

PRODUCT 20

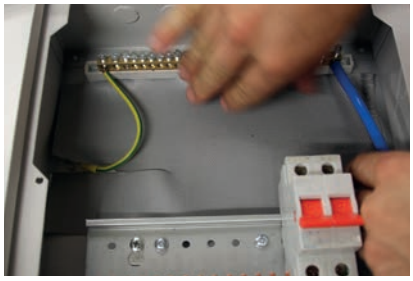


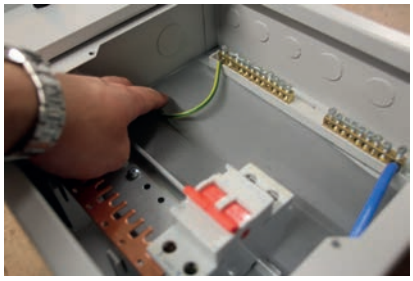
WHY IS THIS IMPORTANT?

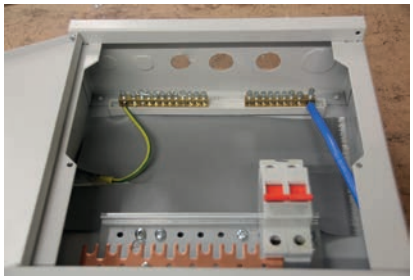
Metal consumer units pose a great risk of becoming live due to overheated cables loosening up and touching the box, which hasn't been properly earthed. Therefore there is a need for an insulation material to be placed inside the unit to prevent this from happening.

Envirograf® insulation liners consist of a silicone cloth material which should be fitted to the back of the unit using the attached double sided tape.

Insulation liner for metal consumer units (SLM)







The consumer unit in our test was purchased from the Wholesaler. We wired and fitted a heated coil inside to cause a fire, to show how Envirograf gaskets stop the fire burning the cables & conduits outside the consumer unit.

Fires inside consumer units are caused by loose cable connections or overloading of the cables, which often happens today.

This and every consumer unit installed correctly do not catch fire.

Ordering References

Intumescent Strip for metal consumer unit protecting the top and bottom of the box

SCU1 300mm x 50mm
SCU2 300mm x 75mm

Intumescent Strip for metal consumer unit protecting the back of the box

SCU/B1 100mm x 60mm
SCU/B2 150mm x 60mm
SCU/B3 150mm x 100mm

Lining for metal consumer unit

SLM1 100mm x 300mm
SLM2 150mm x 300mm
SLM3 100mm x 400mm
SLM4 200mm x 300mm

SOCKET AND CONDUIT PROTECTION

All dry lining boxes and metal boxes fitted in dry-lining walls must have intumescent gaskets fitted to comply with the 17th Edition IET Regulations. To comply with Document E of UK Building Regulations (sound-proofing in plasterboard ceilings and walls), acoustic protection must be fitted for both impact and airborne sound. Envirograf® acoustic protection is approved by Robust Details and tested to Document E.

The range consists of intumescent gaskets that fit into dry lining and metal boxes, including BESA boxes, universal conduit boxes, and socket or switch boxes designed to comply with British Standards and IET Regulations.
Where conduits pass through fire-rated ceilings and walls, it is a requirement to terminate each side with a BESA or universal box fitted with intumescent gaskets to stop fire penetrating.

PRODUCT RANGE INCLUDES:

Product No.	
30	INTUMESCENT FIRE PROTECTION GASKET RANGE
	- PLASTIC BOXES FIRE & ACOUSTIC PROTECTION
	- METAL BOXES FIRE & ACOUSTIC PROTECTION
110	FIROBLOK® INTUMESCENT CONDUIT SLEEVE

EN FIRE TEST AT EFECTIS, HOLLAND

RECESSED SOCKET & SWITCH BOXES MEETING DOCUMENT B & E BUILDING REGULATIONS & 90 MINUTES FIRE PROTECTION TO EN 1364-2015 STANDARD

Pictures from the front room fire test

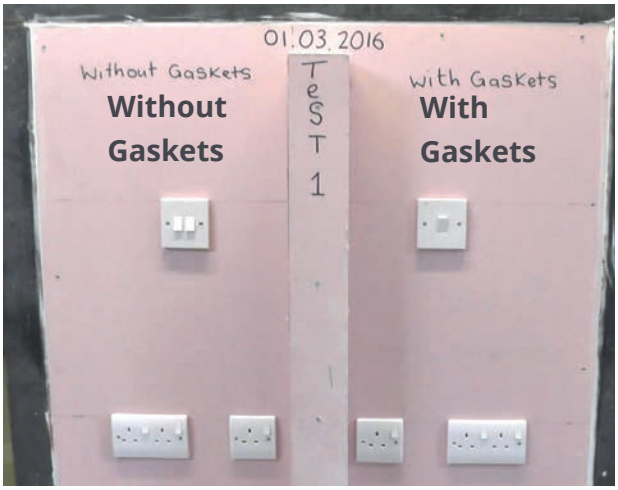
(Your lounge, office etc. From ignition)

2 ½ minutes

4 minutes

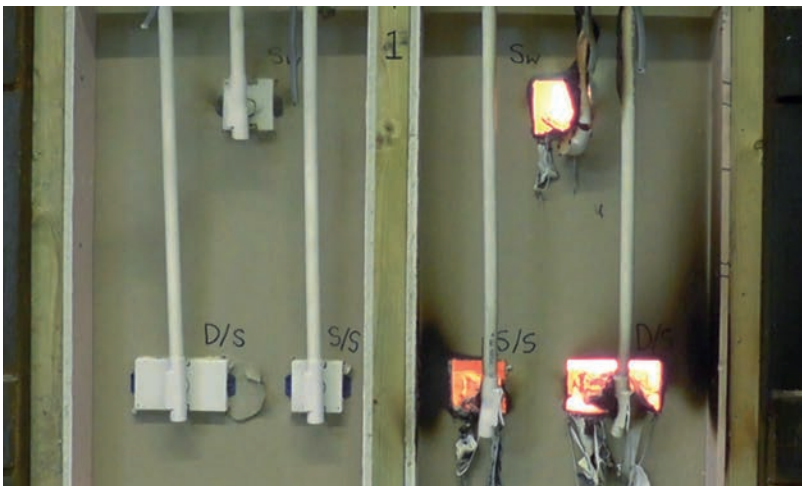
Pictures from EN Fire test on Sockets & switches in recessed boxes

(Same ones as in standard dwelling houses, office blocks and factories)



With Gaskets

Without Gaskets at 3 mins 40 sec.

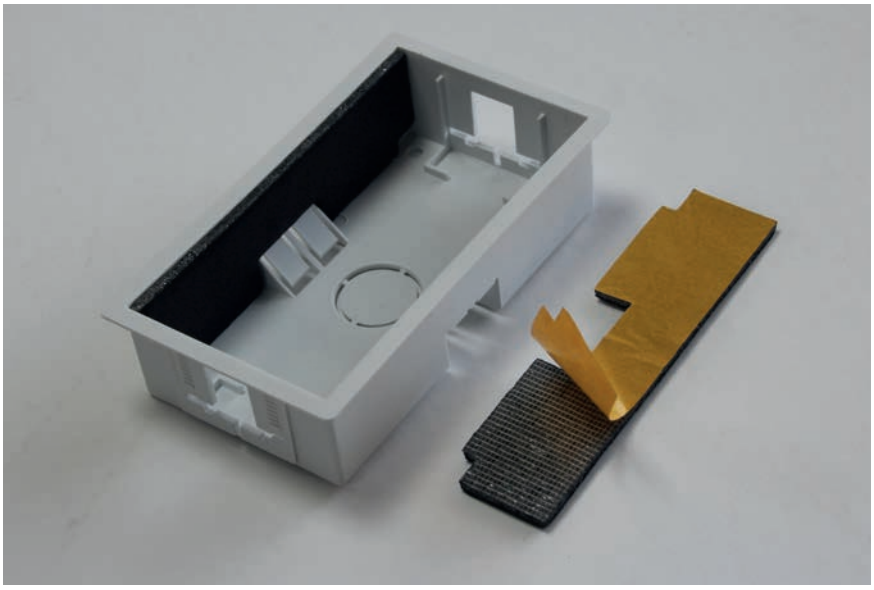


FLAMES ARE PENETRATING INTO THE WALL

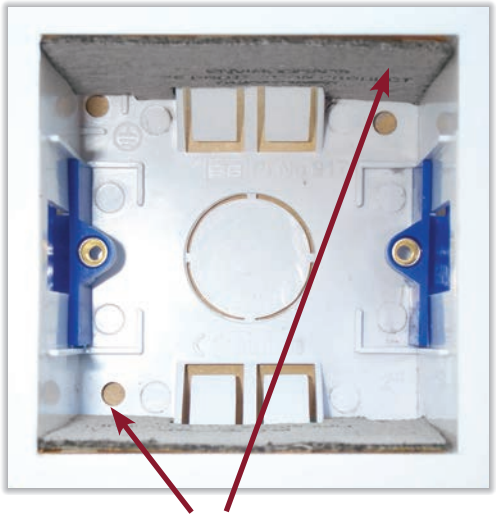
INTUMESCENT FIRE PROTECTION GASKETS RANGE

PRODUCT 30

FIRE PROTECTION GASKETS FOR DRY LINING BOXES



Meeting new EN1364-1:2015 test standard



Double box gasket

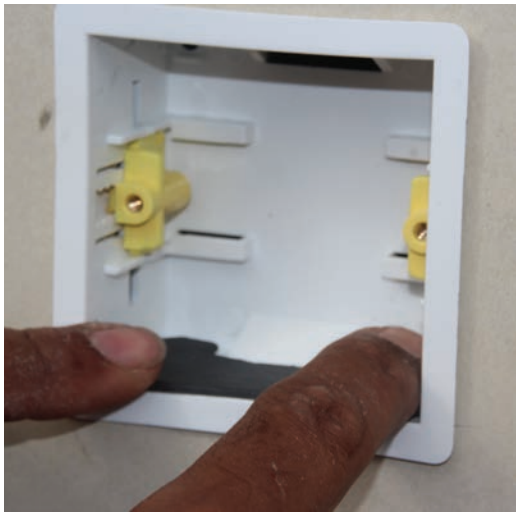
Ordering References

Gaskets for plastic boxes

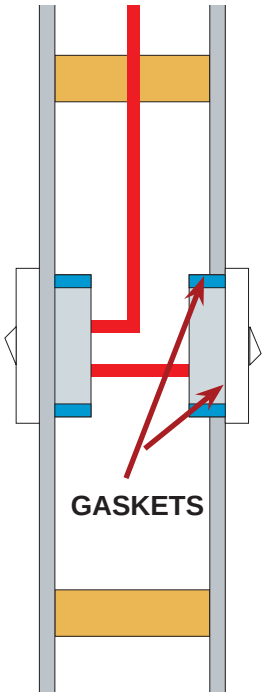
SSB	Single shallow box
DSB	Double shallow box
SDB	Single deep box
DDB	Double deep box

Performance

Envirograf® gaskets gave up to 90 minutes integrity and insulation in dry-lining boxes when tested to EN 1364-1:2015. Plastic boxes in ceilings/walls have also been tested to European Standards EN1365-2 (1999), NEN6069 (2005) and EN136401 (1999) for 84 minutes. EN13501-2:2007 for 108 minutes.



Gaskets are simply placed into plastic boxes and fixed to top and bottom of box with the self-adhesive backing tape. Shown here fitted into PVC box.



INTUMESCENT FIRE PROTECTION GASKETS RANGE

PRODUCT 30

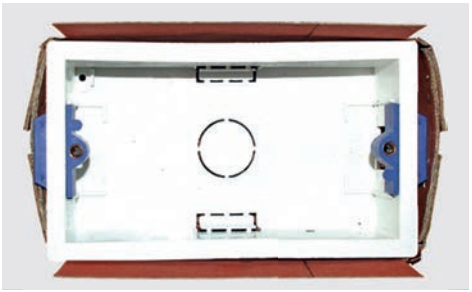
FIRE & ACOUSTIC PROTECTION GASKETS FOR DRY LINING BOXES

THE MAIN FEATURES OF THIS VERSATILE PRODUCT ARE:

- IT ONLY TAKES SECONDS TO FIT
- OFFERS BOTH ACOUSTIC AND FIRE PROTECTION
- COMPLIES WITH DOCUMENTS B & E OF CURRENT UK BUILDING REGULATIONS
- TESTED TO PRINCIPLES OF BS EN1366-3, ACHIEVING 2 HOURS FIRE RATING
- TESTED TO BS EN ISO 140 PART 4 MEETING THE REQUIREMENTS OF DOCUMENT E OF UK BUILDING REGULATIONS

Unprotected openings for electrical sockets will reduce the acoustic performance of walls and compromise the resistance to fire. To comply with Documents B and E of the current UK Building Regulations, the integrity of the wall must be maintained, and this can be easily achieved with the Envirograf® Fire and Sound Trap (FST). This versatile product will encase airborne and impact sound and, in the event of a fire, the product will entrap the flames within the socket box for up to two hours, ensuring that there is no penetration of flames and smoke through the socket and into the wall cavity.

This streamlined product, with its double action design, will help to save lives and combat both airborne and impact sound. It is extremely flexible and it can be easily fitted in seconds to all types of electrical socket boxes, thus saving valuable installation time. The Envirograf® Fire and Sound Trap (FST) can be fitted internally or externally to UPVC socket boxes and it has been tested in accordance with the principles of BS EN1366-3, achieving two hours of fire protection.



EXTERNAL FIRE & SOUND TRAP ALSO AVAILABLE

FITTING THE INTERNAL FIRE & SOUND TRAP

The internal FST is simply pushed into the box. Peel off the backing paper from the adhesive strips and press firmly to grip the box. The cover plate is fixed to the box in the normal way.

Ordering References

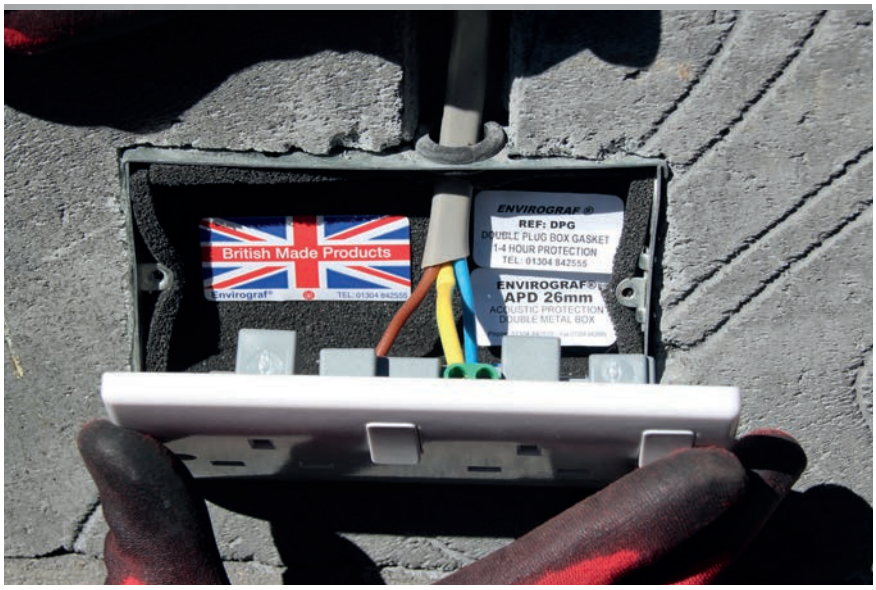
Fire and sound trap for plastic boxes

FST/INT/S/S	Single shallow box
FST/INT/D/S	Double shallow box
FST/INT/S/D	Single deep box
FST/INT/D/D	Double deep box

INTUMESCENT FIRE PROTECTION GASKETS RANGE

PRODUCT 30

FIRE & ACOUSTIC PROTECTION GASKETS FOR METAL BOXES



An intumescent gasket to adhere inside the metal box, can have holes cut into the gaskets to accommodate tubes and cables. For both single and double boxes, with larger gasket for cooker boxes etc.
The gasket has double sided tape on the back to adhere to the inside of the metal box. The acoustic sponge gasket has corners cut to allow quick & easy application onto the box.

APPLICATION INSTRUCTIONS

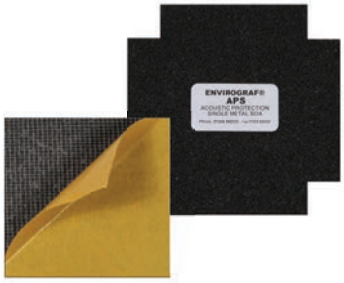
Insert the metal box into the wall.

Peel off the protective tape.

Insert the gasket and press firmly to attach to the box.

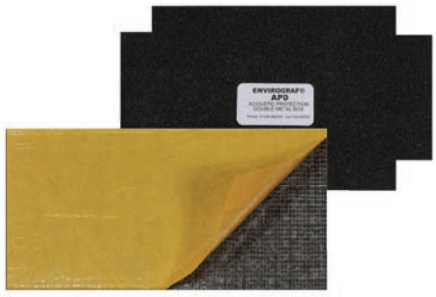
Cut the sponge around the cable.

Job done. You now have fully fire and acoustic protected metal box.



SINGLE METAL BOX SET

Both come pre-fitted together.



DOUBLE METAL BOX SET

Both come pre-fitted together.

Ordering References

Fire and acoustic protection for metal boxes

SPG/APS/26	SINGLE METAL BOX 26mm DEEP
SPG/APS/37	SINGLE METAL BOX 37mm DEEP
SPG/APS/47	SINGLE METAL BOX 47mm DEEP
DPG/APD/26	DOUBLE METAL BOX 26mm DEEP
DPG/APD/37	DOUBLE METAL BOX 37mm DEEP
DPG/APD/47	DOUBLE METAL BOX 47mm DEEP
CBG/APC	COOKER BOX

Performance

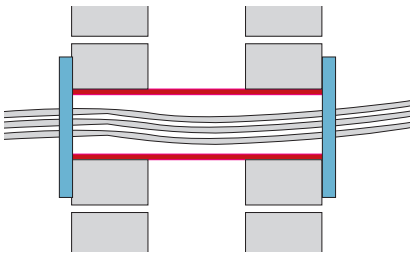
Tested to BS476 Part 22 (1987) and achieved 4 hours in solid walls and 71 minutes in cavity walls. Acoustic protection to Robust Details & 17th Edition IET Regulations tested in accordance with BS EN 1403 (1995) & rated in accordance with BS EN 150 717/1 (1997). Acoustic criteria tested to BS476, Parts 20/22, EN 1364-1 (1999) & EN 1365-2 (1999).

FIROBLOK INTUMESCENT CONDUIT SLEEVES

PRODUCT 110

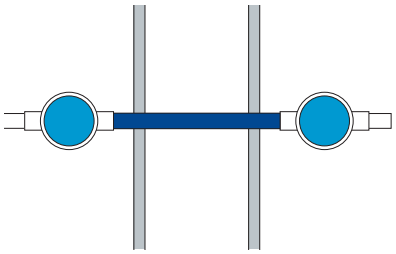
FIRE & ACOUSTIC CONDUIT SLEEVE

FIROBLOK CONDUIT SLEEVE
FITTED INTO A 20MM COUPLING

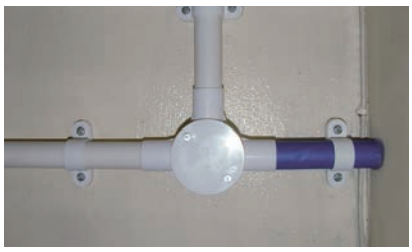


CABLE PROTECTION IN HOLLOW WALLS
INCLUDING SMOKE SEALS (SEE PAGE34)

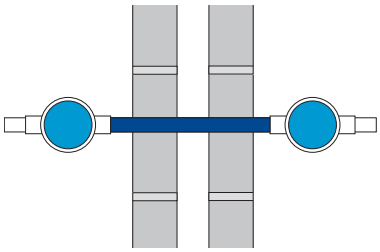
FIROBLOK CONDUIT SLEEVE
FITTED INTO A 20MM BESA BOX



FIROBLOK CONDUIT SLEEVE
FITTED INTO A HOLLOW DRY WALL



FIROBLOK CONDUIT SLEEVE
FITTED INTO A 25MM BESA BOX



FIROBLOK CONDUIT SLEEVE
FITTED INTO A BLOCK CAVITY WALL

Performance

Complies with 17th Edition IET Wiring Regulations, Document B of UK Building Regulations, and Regulatory Reform Order 2005. Tested to BS476 PART 22 (1987) giving 69 minutes integrity/ insulation in hollow plasterboard/ lath-and-plaster walls; EN13501-2 (2007) achieving 120 minutes integrity and insulation; and EN1366-3 (2005) achieving 78 minutes integrity.

FULLY CLOSED CONDUIT SLEEVE
AFTER BEING EXPOSED TO FLAMES

Ordering References

		length
110C/20	20mm Firoblok® conduit sleeve	300mm
110C/25	25mm Firoblok® conduit sleeve	300mm

Available in packs of 12. Made for other size of counduits.

For sleeving going over the top of the conduits:
110/E/C20

Wherever electrical services and plumbing pipes (whether they are plastic or steel) pass through fire-rated walls or ceilings, they must be protected by an intumescent sleeve, collar, or wrap.

Firoblok® electrical conduit sleeves are made to the same external sizes as 20mm and 25mm conduit, so they fit into sockets or BESA boxes instead of the conduit. Firoblok® sleeves are made to fit around all sizes of plastic conduits, trunking and cable trays. In a fire, they will tightly crush/seal around all the cables and conduits.

Firoblok® sleeves can be used for all sizes of PVC, UPVC, steel, and copper pipes from 15mm to 600mm. In a fire, Firoblok® sleeves completely seal all PVC pipes with a wall thickness up to 25mm and they have been tested for thick UPVC pipes for nuclear power stations. Firoblok® sleeves, when used on steel, cast iron, or copper pipes, cool the pipe down, and they act as an insulator between the sides of a firewall or between floors and ceilings. They are a very important product to prevent fire penetrating into adjacent rooms and floors.

Firoblok® sleeves can be fitted along the length of plastic or steel pipes, and on cables (such as armoured cables feeding hospitals) and pipes (such as chemical pipe) giving fire protection and insulation. The protected cables will not overheat in a fire.

DOWNLIGHTER AND AIR CONDITIONING FIRE PROTECTION

A range of intumescent-lined, woven glass fabric covers and rigid metal cages to be used with downlighter fittings, providing a fire seal to maintain the integrity and fire rating of a ceiling. Can be easily fitted from above or below in plasterboard or suspended ceilings. Also available in an acoustic form which prevents sound spreading through the structure.

PRODUCT RANGE INCLUDES:

Product No.	
32	INTUMESCENT DOWNLIGHTER COVERS AND CAGES
31	TENTS FOR LIGHT FITTINGS AND AIR CONDITIONING
32	FIRE AND ACOUSTIC SPEAKER COVERS
152	CEILING BARRIER FOR OVER SUSPENDED CEILING TILES

FRONT ROOM FIRE TEST

1 MINUTE

2.27 MINUTES

2.58 MINUTES

4.27 MINUTES
DEVASTATION

WITHOUT AN INTUMESCENT COVER, THE LIGHT FITTING WOULD COLLAPSE IN UNDER 4 MINUTES, ALLOWING THE FIRE AND EXTREME HEAT TO SPREAD TO OTHER PARTS OF THE BUILDING, SIGNIFICANTLY INCREASING THE RISK TO LIFE AND DAMAGE TO PROPERTY, PERHAPS PREVENTING INSURANCE COMPENSATION.

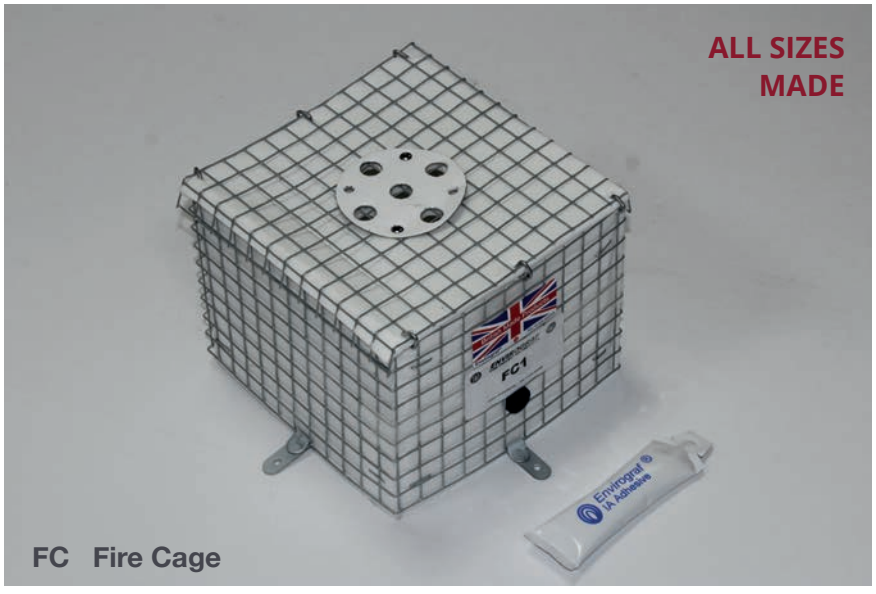
INTUMESCENT DOWNLIGHTER COVERS AND CAGES

PRODUCT 32

DLC Regular Intumescent Cover

With the increased use of downlighters, the integrity of the plasterboard and suspended ceilings can be reduced to approximately 4 minutes protection. Envirograf® downlighter covers are used to restore the integrity required by British and European Standards.

The covers are available in various standard sizes, and special sizes can be made to order. They are easily installed in a few minutes from below or above the ceiling. With cable entries on top, the intumescent covers are ventilated to avoid light fittings overheating. Cables can also be passed under the the rim of the cover for connections to transformers. Only the light fitting penetration is required to be protected, not the transformer.



FC Fire Cage

The fire cage has the same properties as a downlighter cover. There are two types available: -

STANDARD RANGE (for standard light fittings only)
TRANSFORMER RANGE (for light fittings including transformers)

The cage can only be fitted from above on fixed ceilings, and from above and below on suspended ceilings

Use

For use over downlighters and loudspeakers, to maintain the integrity of fire-rated ceilings.

Performance

This product has been tested employing the general procedures of BS476 Parts 22, 23, and 23 (Clause 5) (1987), in various ceiling and floor constructions. Integrity results of up to 240 minutes have been achieved. Also tested to NEN 6069 (1997).
Fully loaded ceiling 88 minutes integrity.

Where the cover can be fitted above a suspended ceiling in roof areas or where floorboards are already lifted, use the Envirograf® Fire Cage. There are two types: one for light fittings (FC) and the other for light fittings with transformers (FC1R). An acoustic type is available – see next page for details. See price list for full details of all types of downlighter covers.

Ordering References

DOWNLIGHTER COVERS

REGULAR
DLC (10 standard sizes available)

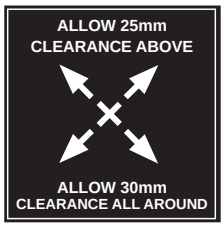
FOR LOW VOLTAGE DOWNLIGHTERS AND TRANSFORMERS TOGETHER
DSLV (7 standard sizes available)

INTUMESCENT FIRE CAGES

REGULAR STANDARD LIGHT FITTING
FC (10 standard sizes available)

REGULAR LIGHT FITTING AND TRANSFORMER COMBINED
FC1R (10 standard sizes available)

Please Note:
When choosing the size, make sure you allow for clearance.



ACOUSTIC DOWNLIGHTER COVERS AND CAGES

PRODUCT 32

Ordering References

DOWNLIGHTER COVERS

ACOUSTIC DOWNLIGHTER COVERS

DLC/AC (10 standard sizes available)

FOR LOW VOLTAGE DOWNLIGHTERS AND TRANSFORMERS TOGETHER

DSLV/AC (5 standard sizes available)

INTUMESCENT FIRE CAGES

ACOUSTIC STANDARD LIGHT FITTING

FC/AC (10 standard sizes available)

ACOUSTIC LIGHT FITTING AND TRANSFORMER COMBINED

FC1R/AC (10 standard sizes available)

Standard sizes in stock. Other sizes made to order.

Sound absorption and fire protection of downlighters can now be achieved with the Envirograf® acoustic downlighter cover and fire cage range. After a long period of research and testing, the problem of protection without overheating has been solved. The covers allow light fittings to operate without overheating, whilst maintaining the fire rating integrity of the ceiling to which they are fitted, thus enabling 30 minutes or 60 minutes of fire rating to be maintained. (See Page 20 for tents for fluorescent and other light fittings).

Envirograf® acoustic downlighter and speaker covers can be used in areas that require good absorption of airborne and impact sound, such as businesses and shops below residential apartments and between floors of residential apartments. Acoustic covers have been fully tested at The Building Test Centre, and reports are available on request.

Performance

Envirograf® covers have passed all relevant British Standards tests on all types of ceilings, complying with Document B and E (acoustic requirements) of UK Building Regulations and the revised 17th Edition IET Regulations. Also tested to EN 6069 (1997).
BS EN 1363-1 : 2012
Acoustic performance
BS EN ISO 140-3 : 1995 63dB (-2,-8)

Please Note:
When choosing the size, make sure you allow for clearance.

FIRE AND ACOUSTIC SPEAKER COVER

PRODUCT 32

It is essential to fit Envirograf® covers to all speakers fitted in fire rated ceilings & walls. Not only for airborne and impact sound under Document E, but to stop fire penetrating into the ceiling & wall to meet Document B of UK Building Regulations, keeping the fire rating of the ceiling or wall. Without this cover a 1 hour rated ceiling would collapse in 15 minutes.
These must be fitted in all ceilings where integrity has been breached as well as ceiling to loft area to give full fire protection.

The cover can be easily fitted from below. Intumescent card fitted to side of the cover for cable to be fed through. The cover is supplied with pins to fix cover to plasterboard .

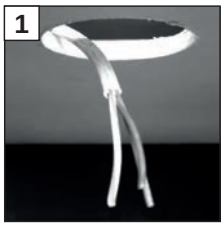
Advantages

- Installed in seconds
- Reinstates fire integrity of the ceiling
- Lightweight and flexible
- Can be used in suspended, plasterboard and lath & plaster ceilings
- Stops speaker sound penetrating above
- Complies with Document B and E (acoustic requirements) of UK Building Regulations and meets the revised 17th Edition IET regulations. Also tested to NEN 6069 (1997) and BS476 Parts 22, 23 and 23 (Clause5) (1987), in various ceiling and floor constructions. BS EN 1363-1 : 2012 for 90 minutes.

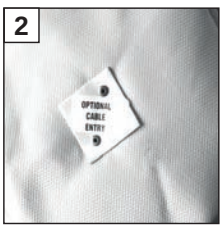
Ordering References

Speaker covers are made to order. Please call us for more information.

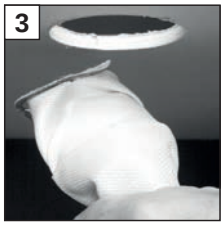
INSTALLATION OF ENVIROGRAF® SPEAKER COVERS



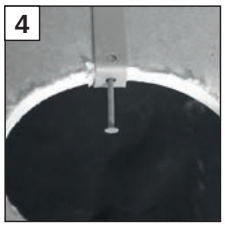
Lead the cable through the previously-cut speaker fitting aperture.



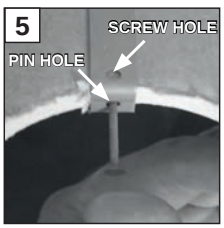
Cable entry can be under the speaker cover or through the marked entry hole on the side.



Grasp the cover by its sides and squeeze it inwards to reduce its bulk. Then push it through the aperture with its top uppermost, ensuring that a grip on the fitting clips is maintained throughout the process.



The new fast-fixing clip attached to the speaker covers, attaches the speaker cover to the ceiling.

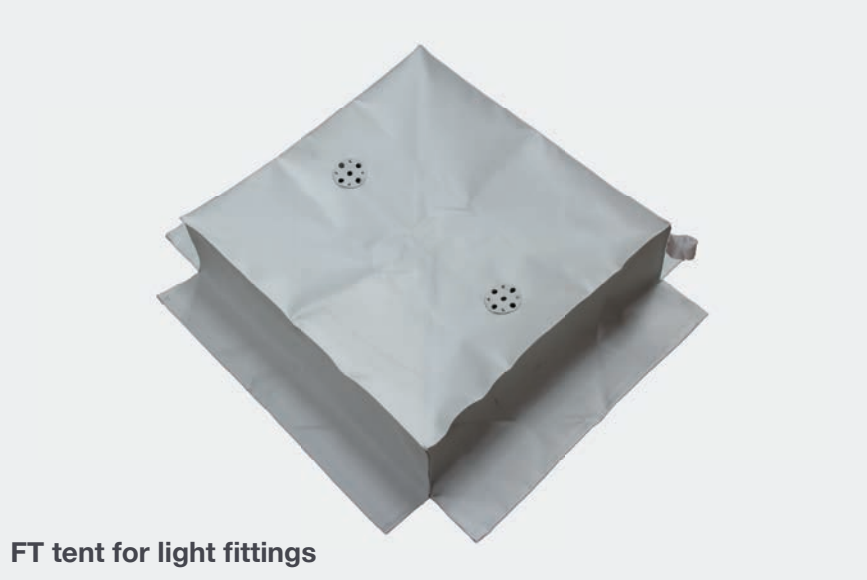


Whilst holding a fitting clip, align the pin hole with 12mm plasterboard and push one of the supplied fixing pins through the hole and into the plasterboard until fastened in place. Use optional No.6 screws in 9mm plasterboard.

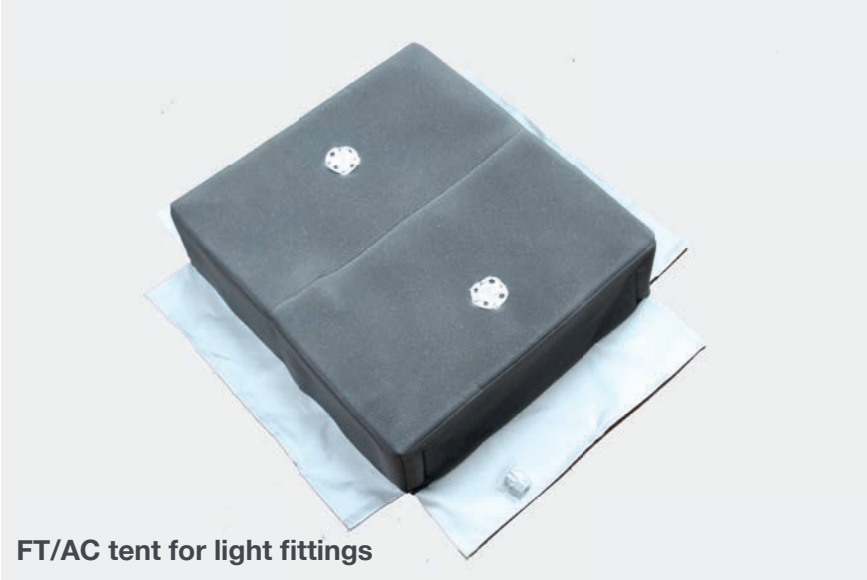
Using a blunt object push the speaker cover to open it up completely. Allow 15-20mm clearance above the cover and 30 - 40mm clearance all around.

TENTS FOR LIGHT FITTINGS AND AIR CONDITIONING UNITS

PRODUCT 31



FT tent for light fittings



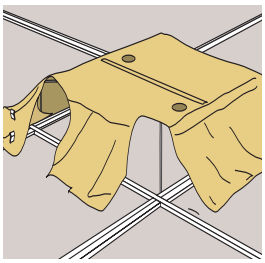
FT/AC tent for light fittings

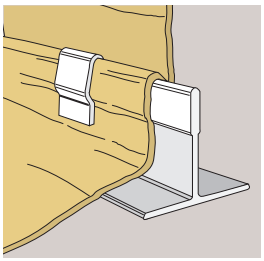
A cover made from fire resistant material which is fixed over fluorescent light fittings or air conditioning units. Fully ventilated to prevent units from overheating.

Advantages

- Provides acoustic protection and up to 88 minutes integrity
- Designed for use with fluorescent light fittings and air conditioning units which are recessed into fire rated suspended or plasterboard ceilings
- Easily installed by one person in minutes
- Can be fitted during the installation process, or retrofitted to existing air conditioning units and light fittings

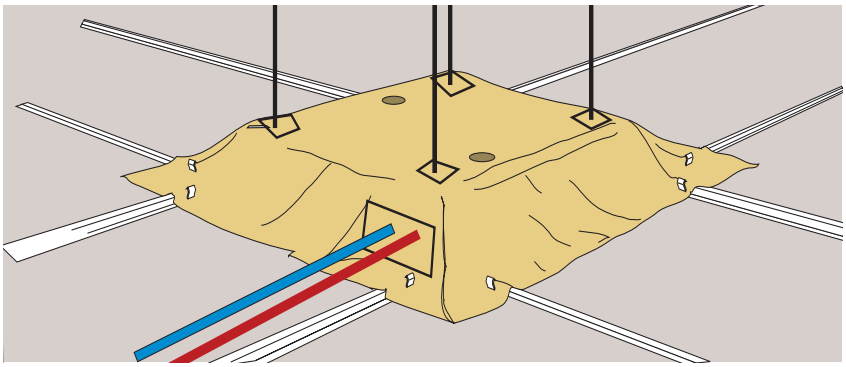
Application Information





Place the tent over the air conditioning unit and feed the cable through the ventilation hole, connecting it to the aircon unit according to the manufacturer's instructions. Go to each corner and pull the material away from the fitting over the T-bar and fix the material to the T-bar with the supplied clips. Pinch each clip with a pair of pliers to fix tightly.

AIR cover for air conditioning units



Intumescent card is fixed to the top of the tent to provide entry points for support rods or cables or pipes to pass through.
Note: Seams are pre-cut to allow the cover to be placed over the unit and the joints can be sealed with the supplied adhesive and material strips.
VERY EASY TO FIT

AIR CONDITIONING – GET COVERED

Air conditioning units are becoming commonplace in many buildings. They do, however, provide a serious potential fire risk when fitted into a suspended ceiling or fire-rated plasterboard ceiling. Ducting outlets need to be protected against fire and smoke. In a fire, unprotected units could invalidate upper floor insurance claims, therefore it is crucial to protect the air conditioning unit with a fireproof cover and to ensure you meet these regulations:–

- Covers should be fitted to comply with revised 17th Edition IET Regulations of fire-rated ceilings
- Covers should be fitted to comply with Document B of UK Building Regulations, to keep the integrity of a suspended or plasterboard fire-rated ceilings
- Covers should be fitted to comply with new Document E/L acoustic requirements

Ordering References

REF	SIZE	RATING
FT1	350mm x 300mm x 150mm	1 hour
FT2	650mm x 600mm x 150mm	1 hour
FT21	650mm x 300mm x 150mm	1 hour
FT4	1250mm x 600mm x 150mm	1 hour
FT41	1250mm x 300mm x 150mm	1 hour
FT5	1550mm x 600mm x 150mm	1 hour
FT6	1850mm x 600mm x 150mm	1 hour
FT61	1850mm x 300mm x 150mm	1 hour

ACOUSTIC

REF	SIZE	RATING
FT1/AC	350mm x 300mm x 150mm	1 hour
FT2/AC	650mm x 600mm x 150mm	1 hour
FT4/AC	1250mm x 600mm x 150mm	1 hour
FT41/AC	1250mm x 300mm x 150mm	1 hour
FT5/AC	1550mm x 600mm x 150mm	1 hour
FT6/AC	1850mm x 600mm x 150mm	1 hour
FT61/AC	1850mm x 300mm x 150mm	1 hour

AIR CONDITIONING UNIT COVERS

REFERENCES	SIZE	RATING
AIR1	400mm x 400mm x 240mm h	1 hour
AIR2	400mm x 400mm x 280mm h	1 hour
AIR3	600mm x 600mm x 250mm h	1 hour
AIR4	900mm x 850mm x 240mm h	1 hour
AIR5	900mm x 850mm x 280mm h	1 hour

The covers are supplied with all required fixings.

CEILING BARRIER FOR OVER SUSPENDED CEILING TILE

PRODUCT 152

- Made to fit over all tile styles & sizes
- Can be supplied to accommodate downlights or air conditioning units.
- Made from a 60 minutes fire rated cloth adhered to a 40mm Class 0 & 1 sponge (as used with our underfloor fire barrier). Tested to BS476 Parts 20, 21, 22, 23 (1987)
- 1 hour fire resistant
- Thickness 40mm, sound resistant, tested to BS EN ISO 140 Part 4 for airborne sound reduction mean result Dntw 65 dB.
- Thermal conductivity U value 0.27W/ m^2K
- Easy and quick to apply, no special clothing or gloves required. Non fibrous, can be used in sterile areas, such as Hospitals, computer rooms, food preparation areas etc.

NEW CEILING BARRIER FOR OVER SUSPENDED CEILING TILES GIVING 60 MINUTES FIRE PROTECTION, ALSO PROVIDING ACOUSTIC, IMPACT AND AIRBORNE PROTECTION AS WELL AS THERMAL INSULATION

Application Information

Ceiling Barrier can be easily fitted onto existing suspended ceilings by simply removing the tiles one by one and laying the board on top of them, ensuring a snug fit between the tee bars.
When downlights or air conditioning units are present, order a tile in conjunction with downlighter cover (Product 32) or air conditioning unit cover (Product 31). They will be supplied as complete units for easy installation). **Make sure to state the position of these covers during ordering.**

Ordering References

CB1	600mm x 600 mm
CB2	600mm x 1200 mm






CASE STUDY

As of August 2013, the ground floor of what used to be a Police Station was refitted to its new purpose as “Spice of Asia Restaurant” in the heart of the village.
During the refurbishment, the tenants of the first floor have raised their concers about the noise levels and the need for the fire protection.

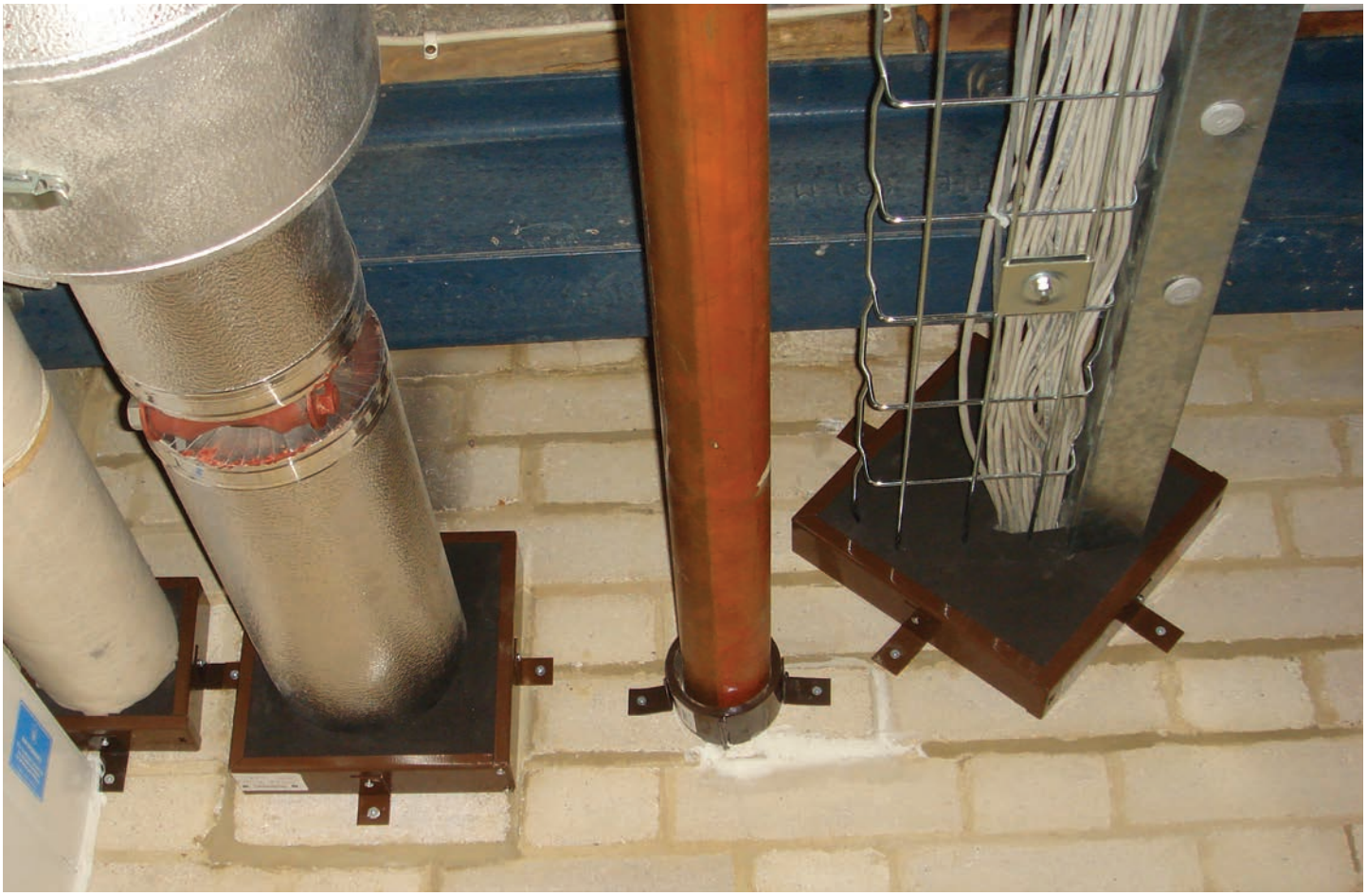
Envirograf® have been contacted and addressed those concerns by supplying the Suspended Ceiling Barriers, which provided the restaurant and the tenants with 60-minute fire protection, 65 dB noise reduction and U value 0.27W/m^{2}K.

The downlighter covers were also required for the downlighters and speakers. These were specially manufactured to house the lights and provide fire protection.

DOWNLIGHTER COVERS, SPEAKER COVERS AND SUSPENDED CEILING BARRIERS USED IN *SPICE OF ASIA RESTAURANT* IN WOODHAM FERRERS


Easy to apply, non-fibrous, can be used in sterile areas (computer rooms, hospitals etc.)

CABLES, PIPES AND VENTILATION PROTECTION

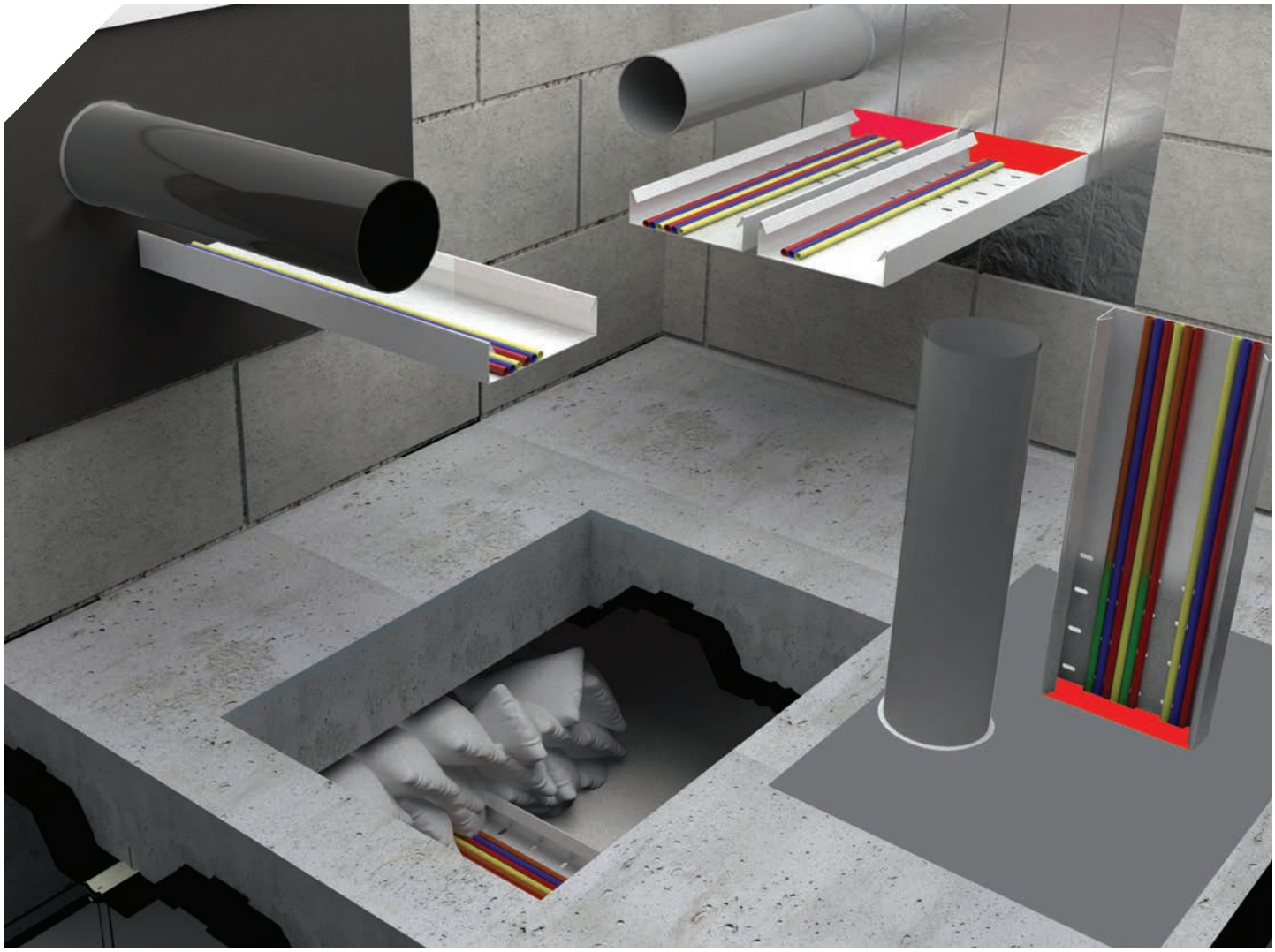


Building regulations state that all services that penetrate fire-rated elements must be fire-stopped to the same fire rating as the wall, ceiling or floor.

Envirograf® have designed and produced a range of service fire seals that are designed to be used in conjunction with all the blocks, slabs and fire mortar.

PRODUCT RANGE INCLUDES:

Product No.	
7	INTUMESCENT WRAPS
13	INTUMESCENT COLLAR
13A	ISPC COLLAR
16	MULTI-PURPOSE BOX
18	SADDLES FOR OVER SERVICES
25	INTUMESCENT PROTECTION SLEEVE SYSTEM FOR CABLES
33	TOILET/BATHROOM VENTILATION OUTLET PROTECTION
33	CLVM CLIPPER FOR TOILET VENTILATION FIRE PROTECTION
80	FIRE PROTECTION COATING FOR PVC ELECTRICAL CABLES
110	FIROBLOK INTUMESCENT SLEEVES FOR SERVICES
14	INTUMESCENT FAN COVERS
34	INTUMESCENT FIRE AND SMOKE GRILLES
146	EN/F SEALANT
149	FIRE AND ACOUSTIC CABLE MANAGEMENT SYSTEM



INTRODUCING THE ENVIROGRAF® PASSIVE FIRE SEALS PRODUCT RANGE FOR SERVICE PENETRATIONS

Building regulations state that maintaining the fire integrity of all structural elements is a crucial part of the overall building design. Controlling the internal spread of fire is intended to ensure the buildings overall stability in the event of a fire. Building elements that include walls, ceilings and floors are designed to act as compartments that hold back the fire enabling occupants to escape safely as well as maintaining the buildings structural capacity.

Maintaining the fire integrity of these elements is therefore an important priority during both the construction process and general service maintenance schedules.
Envirograf® produce a unique and extensive range of passive fire seals that offers specifiers one of the largest choices of fire stop seals designed for services openings available.

STANDARDS AND APPROVALS

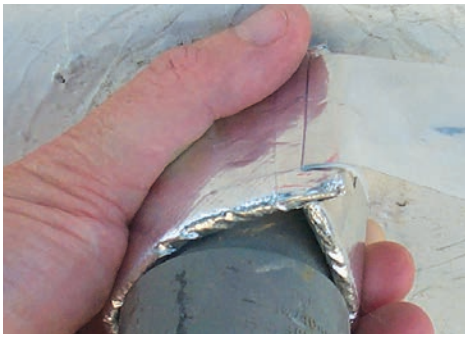
Document B offers clear guidance on maintaining element fire integrity, they include:

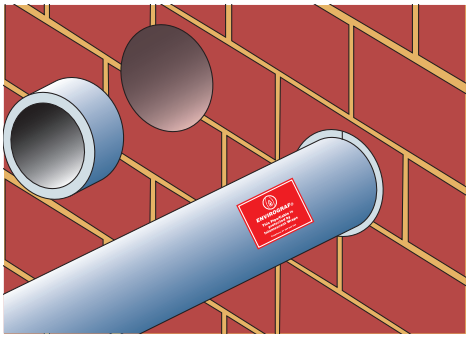
- ensuring loadbearing elements are able to withstand the impact of fire for the elements specific fire rating (B.5.1)
- sub-dividing the building into compartments with appropriate fire-resisting products/construction (B.5.2)
- protecting openings in fire-resisting elements (B.5.2.2)
- Inhibiting unseen spread of fire and smoke within concealed spaces (B.5.3)

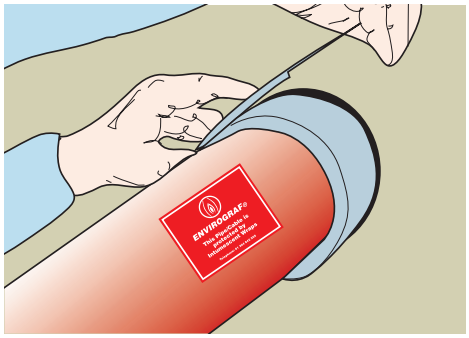
INTUMESCENT WRAPS

PRODUCT 7

For use around pipes or cables in brick or block walls and in concrete floors. Also for use with Products 4, 5, and 6, the wrap is pushed into the hole, leaving a 10mm gap back from the wall face for pointing with sand and cement or slab coating or plaster. The wraps will crush PVC pipes, trunking, and cables, and will cool steel pipes when attacked by fire – an economical way to protect services. A label is supplied to adhere to treated pipes or cables, for identification to the relevant authorities. See also Envirograf® Products 25 and 110 for cable and pipe protection.







Performance

This product underwent a series of fire resistance tests employing the general procedures and criteria of BS476 Part 22 (1987). It has has been tested on sealing penetrations of various pipes passing through different types of floors and walls. Integrity results of up to 249 minutes were achieved. Also tested at VNE to European Standard EN1363-1 (2000). Tested at LPC to EN 1366-3 for 70 minutes.

Application Information

Place the Envirograf® intumescent wrap around the pipe and fix the self-adhesive tab. Push into the wall or ceiling by about 10mm extra and face it with plaster or cement. Adhere the protected service label to the service to indicate that it is protected by an Envirograf® intumescent wrap. Now available: 10m roll of 30mm or 50mm wrap.

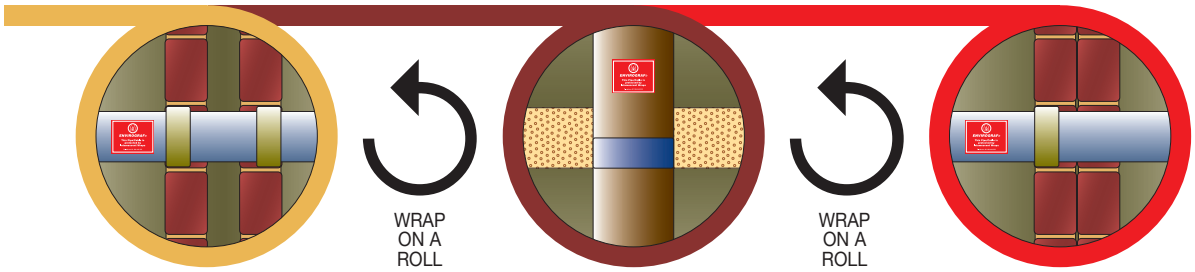
Ordering References

Ref	External Pipe Diameter	Depth of Wrap	Rating
EW#	18mm to 215mm	30mm	1-3 hours
(# = external pipe/cable size)		50mm	1-4 hours

Size 250mm up to 650mm width 100 to 200mm. (See price list for full range) To suit pipes up to 650mm

Ordering example:
For 83mm external diameter PVC pipe and cables
EW83/3 for 1 hour to 3 hours, or EW83/4 for up to 4 hours
A label is provided to adhere to surface showing is protected by Envirograf® Wrap.

CONTINUOUS INTUMESCENT PIPE & CABLE WRAP ON A ROLL



NEW 10m ROLLS OF WRAP AVAILABLE FOR MULTIPLE APPLICATIONS
SUPPLIED COMPLETE WITH FIXING TAGS & LABELS

EWE 1 - 30mm Wide
Colour - Yellow

EWE1 rated 1-3 hours fire protection and insulation to BS476 Part 20 (1987) and EN1366-3

For UPVC / ABS / PVC Pipes & Cables Plus Steel and Copper Pipes

1 layer – pipes and cables 15 - 65mm diameter
2 layers – pipes and cables 75 - 127mm diameter
3 layers – pipes and cables 160 - 200mm diameter

For use with Brick / Block / Concrete Walls and Concrete / Bison Floors

For timber / plasterboard ceilings / walls, use Product 110 (Firoblok)

EWE 2 - 50mm Wide
Colour - Blue

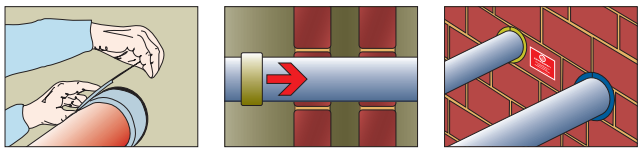
EWE2 rated 1-4 hours fire protection and insulation to BS476 Part 20 (1987) and EN1366-3

For UPVC / ABS / PVC Pipes & Cables Plus Steel and Copper Pipes

1 layer – pipes and cables 40 - 115mm diameter
2 layers – pipes and cables 127 - 215mm diameter
3 layers – pipes and cables 250 - 400mm diameter

For use with Brick / Block / Concrete Walls and Concrete / Bison Floors

For timber / metal stud partitions / timber floors, use Product 110 (Firoblok)



1: Cut the hole in the wall as required to suit pipe and wrap size.
2: Place the intumescent wrap around the service to be protected, using the correct number of layers (as shown in the table above) and affix with one of the supplied adhesive tabs
3: Install the wrap by pushing along the pipe or cable, into the hole and leave a recess to be finished off with Envirograf® Product 58 (intumescent mastic) or Product 63 (intumescent cement), or standard cement
4: In a concrete floor, a wrap is required only on the risk side. In a cavity wall on either the risk side or both sides
5: Ensure that you do not use multiple single wraps in a “one behind the other” configuration: always wrap one layer over the other in the form of a bandage
6: Affix one of the supplied identification labels adjacent to the service you have protected

INTUMESCENT PIPE COLLARS

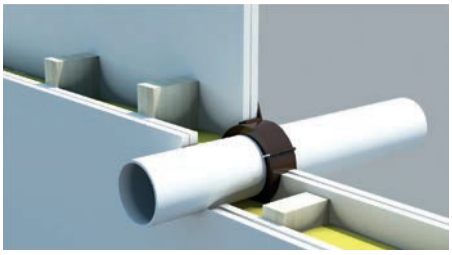
PRODUCT 13

Sizes range from 45mm to 650mm diameter

A hinged, two-part metal collar lined with intumescent material which expands in a fire. It has a quick-release pin to open the unit for fitting around a wide variety of metal or plastic pipes and cables.

Advantages

– Due to its heavy duty nature, it is a great fit for all types of buildings
– Provides up to 4 hours fire protection for pipes from 45mm-650mm in diameter
– Acoustic version offers both airborne and impact sound protection
– Adjustable brackets allow for fitting in hard-to-access areas



Application Information

Prior to fixing, please ensure:
- Access for fitting is available
- Correct area of risk is assessed (double-risk areas may require two collars
- Correct size of collar appropriate to the pipe or service being protected

(See also Envirograf® Product 110 for hollow wall fixing).
The product must be installed correctly. Fixing lugs are already fitted to WPCS collars. They can be fixed to solid structures with rawl plugs with screws. It is recommended that you pump a spot of Envirograf® product 58 (intumescent Mastic) into the previously drilled hole. For hollow plasterboard walls, fix with screws if there are timber noggins and metal walls to fix to, otherwise use steel toggle fixings. If WPCS are to be fitted into an area where no noggins or blockwork to attach to, the lugs can be re-attached to another part of the WPCS by drilling 1.5mm holes into the side of the collar and screw into collar.

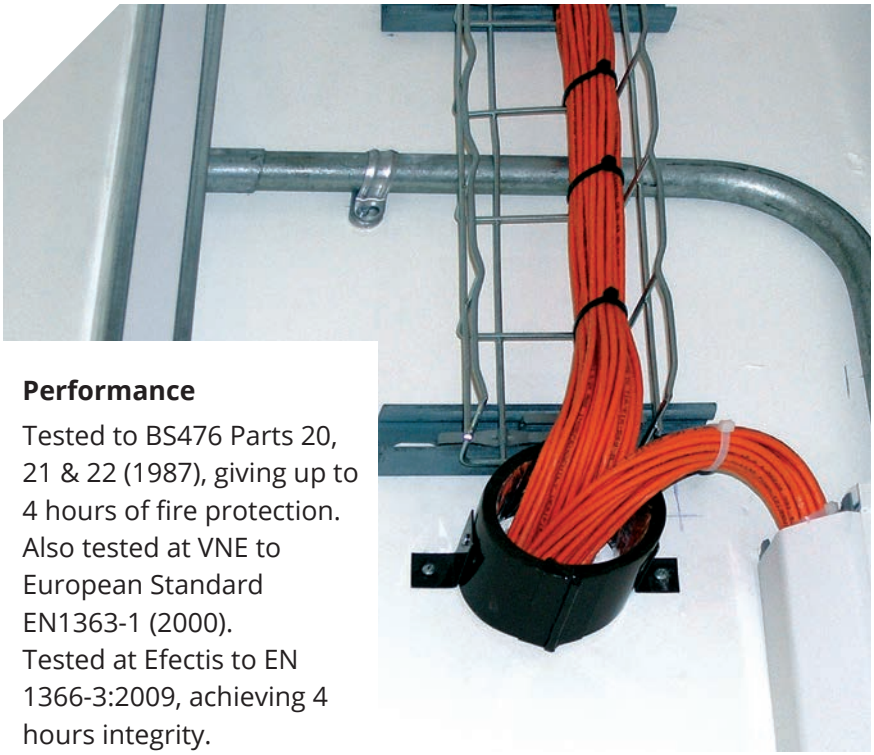
Please note that external pipe diameters may vary between different manufacturers and systems, and ambient temperature also affects dimensions. Please select the collar size most appropriate for your application, allowing a small clearance for ease of fitting.
A close fitting between the collar and the pipe surface should be the aim, but the collar should not be unduly strained in order to close it around the pipe. A fireproof sponge filler strip can be provided upon request for special applications.

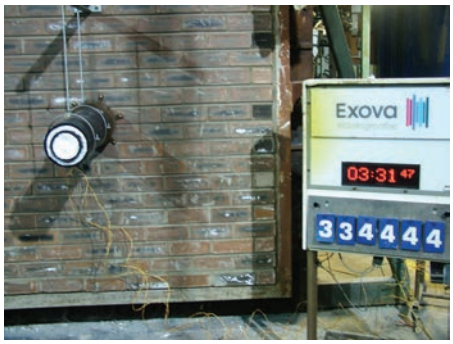
Ordering References

WPCS Standard sizes range from 45mm to 650mm diameter.

Available in range of depths from 30mm to 80mm deep, as well as fire rating from 1 hour to 4 hours rating.

WPCS's MUST be securely fixed with all fixing brackets supplied.
Make sure that the arrow label on the product is pointing towards the substrate.



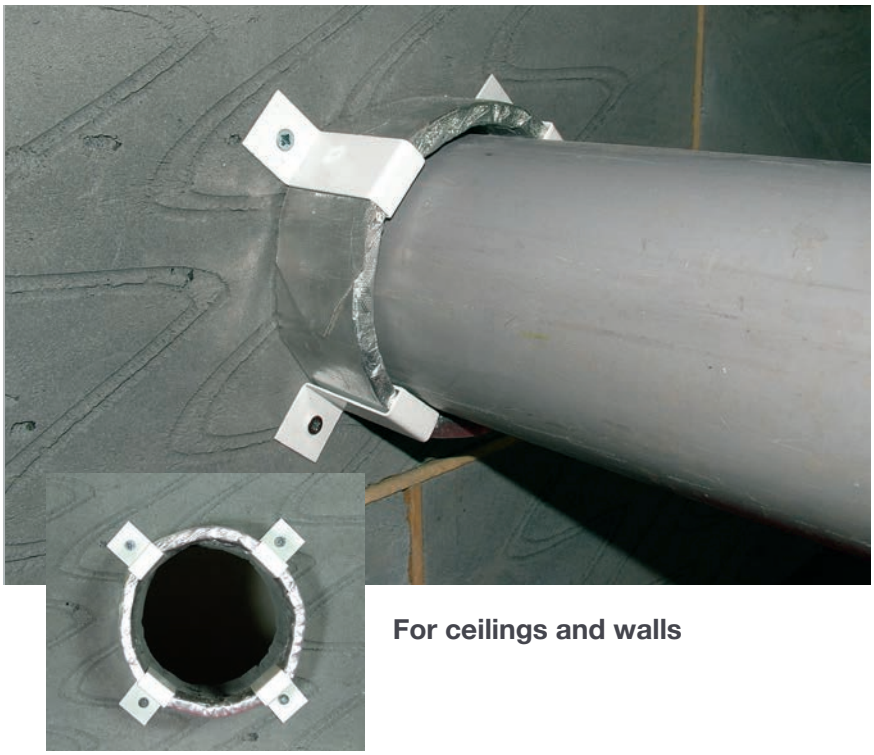


Performance

Tested to BS476 Parts 20, 21 & 22 (1987), giving up to 4 hours of fire protection. Also tested at VNE to European Standard EN1363-1 (2000).
Tested at Efectis to EN 1366-3:2009, achieving 4 hours integrity.

ISPC COLLAR

PRODUCT 13A



For ceilings and walls

A cylindrical strip of foil-clad intumescent material which is wrapped around a pipe or cable, then fixed to the wall with adjustable brackets. A lightweight and easily-adjustable alternative to our heavy-duty intumescent collars.

Advantages

– Provides up to 2 hours fire protection for pipes 45mm-350mm in diameter

– Can be quickly fixed to the risk side of surfaces in both new and retrofit applications

– Adjustable brackets allow for fitting in hard-to-access areas

Application Instructions

Place ISPC collar around pipe on risk side of room.
Remove adhesive backing paper from fixing tab and fasten tab to position collar close around pipe.
Make holes in wall and insert plugs.
Push metal clips over collar with equal spacing between clips.
Put screws through clips and fix.

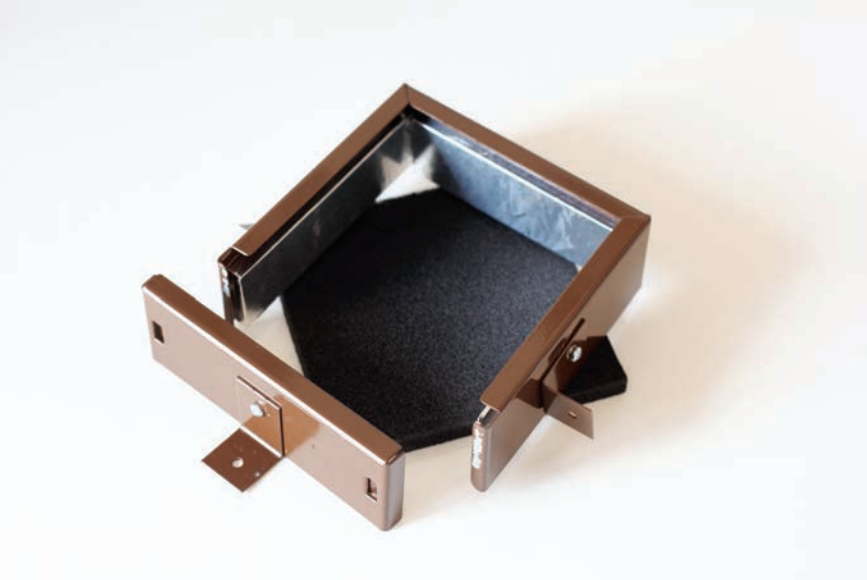
Ordering References

ISPC Standard sizes range from 45mm to 500mm diameter.

Please note:
Depending on the size of the collar, we supply from 2 to 6 retaining clips, which all need to be fixed to the substrate.

MULTI-PURPOSE BOX

PRODUCT 16



One of the most versatile fire protection units

A metal box lined with intumescent, with one detachable face to facilitate fitting. It has a fire and smoke sponge seal located in the front of the box, which can be cut to allow any type of service to pass through. The intumescent will expand inwards, creating an effective fire and smoke seal.

Advantages

– A versatile solution to the problem of services passing through walls, floors and ceilings, offering up to 4 hours protection

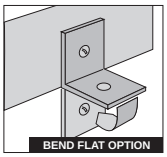
– Supplied with a smoke seal for openings left around services.

– Detachable face plate allows for the box to be fitted in tight corners

– Adjustable brackets can be bent flat to fit flush against flat surfaces such as walls or ceilings, or kept at a right-angled position to fit in corners

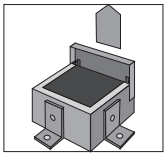
Application Information

For standard open areas, simply place the box over the services, use the smoke seal and screw into position. If the services are already in place, remove the detachable section, fix the 'U' section first then slide back the detachable section and fix the smoke seal if required. When the unit is flush against a ceiling, floor, wall, or corner simply bend the fixing brackets flat and screw into position. When using multi-purpose box to fit around existing services in a tight corner, simply remove the detachable section and fix the 'U' section into position. Fixing brackets can be bent flat if required. Replace the detachable section and fix to the substrate, before inserting the smoke seal.

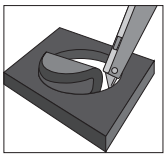


SPECIAL FEATURES:

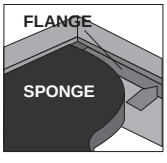
A detachable section allows the unit to be used in tight corners.Adjustable brackets allowing multiple fixing options.



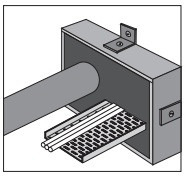
Special made of top cover lid so unit can fit round existing services and cover fitted back.

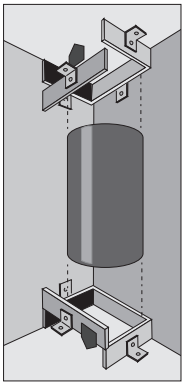


Special fire-resistant sponge smoke seal, easily cut to allow services through.
The sponge smoke seal imply slides into flange section from the front



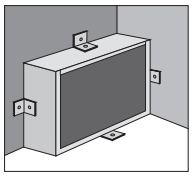
Sponge fitted back into flange.

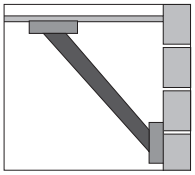


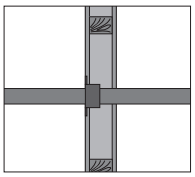


CAN BE FITTED TO FLOORS OR CEILINGS

EB CORNER FIXING

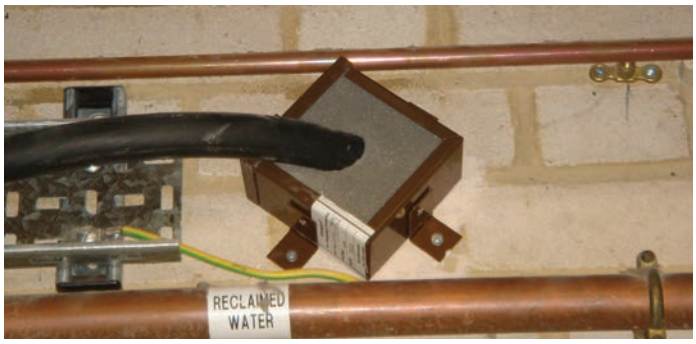


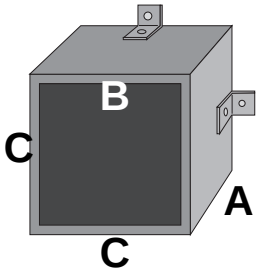




EB REBATED IN WALL

Performance
Tested to BS476 Parts 20 and 22 (1987), achieving up to 2 hour fire protection.
Tested to European Standard EN 1366-3, achieving 197 minutes fire protection.





Ordering References

Ref	Depth(A)	Inside(B)	Outside(C)	Rating
EB 45/050	50mm	45mm	67mm	4h
EB 55/050	50mm	55mm	76mm	4h
EB 72/050	50mm	72mm	93mm	4h
EB 83/050	50mm	83mm	105mm	4h
EB115/050	50mm	115mm	138mm	4h
EB135/050	50mm	135mm	155mm	4h
EB166/050	50mm	166mm	196mm	4h
EB215/050	50mm	215mm	255mm	4h
EB166/100	100mm	166mm	196mm	4h
EB215/100	100mm	215mm	255mm	4h
EB265/100	100mm	265mm	315mm	4h

Other sizes made to order.

SADDLES FOR OVER SERVICES

PRODUCT 18

For over pipes, cables, plastic electrical ventilation ducting and trunking

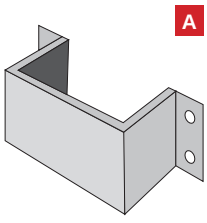
A metal saddle lined with expanding intumescent which can be fitted over practically any type of service passing through any type of wall, floor or ceiling. Available in a variety of profiles to easily fix to flat surfaces as well as corners.

Advantages

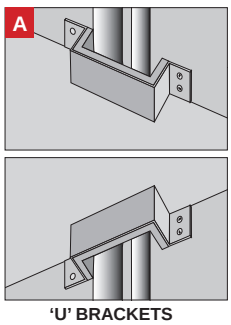
– Designed for use with pipes and cables penetrating walls, floors or ceilings at awkward angles
- The standard U-shaped unit will fix easily to flat surfaces, while the H-shaped unit is ideal for corners
– Easy to install and versatile, providing 2-4 hours fire protection

Application Information

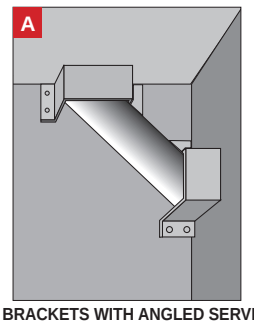
The intumescent pipe covers simply fit over the services and they are then fixed with screws with rawl plugs where applicable. U-shaped pipe covers are available for open areas, and special h-shaped units are available for application in difficult corners.



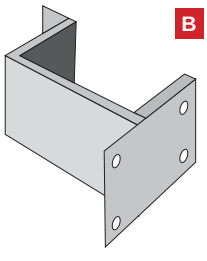
'U' BRACKET



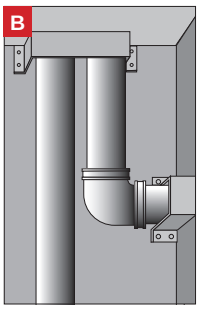
'U' BRACKETS



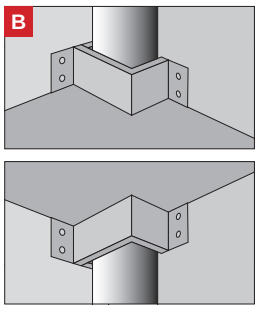
U' BRACKETS WITH ANGLED SERVICE



CORNER BRACKET



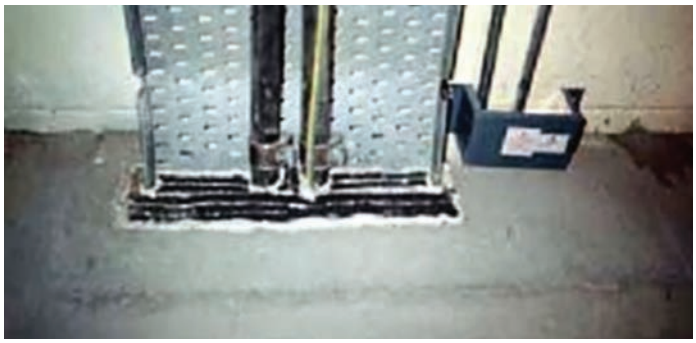
'U' BRACKETS WITH MULTIPLE SERVICE PENETRATIONS

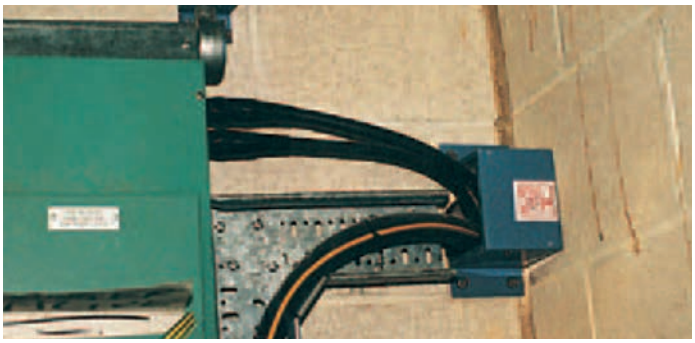


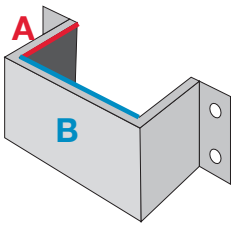
CORNER BRACKETS

Performance

Tested to BS476 Parts 20 & 22 (1987), achieving 2-4 hours fire protection. Tested to European Standard EN13501-2 : 2004, achieving 122 minutes protection.







Ordering References

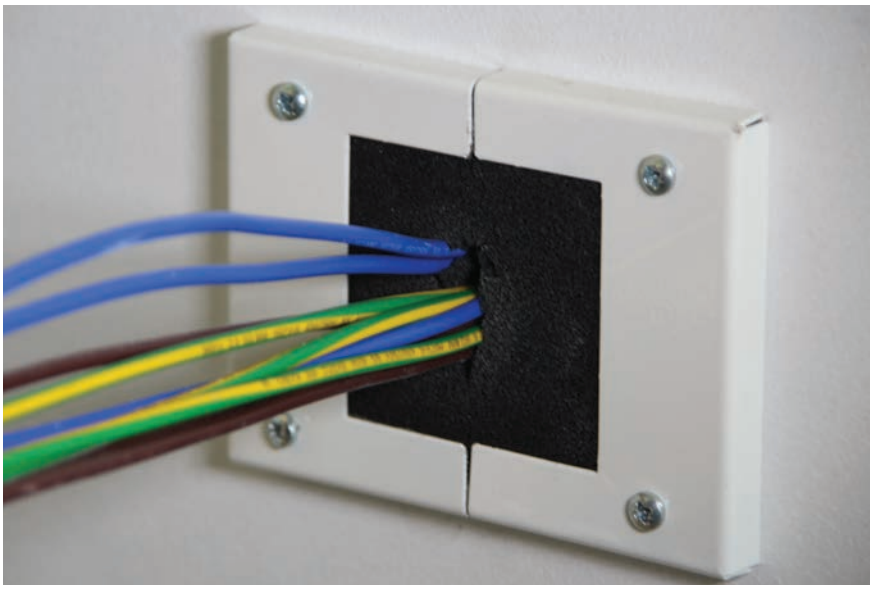
Ref (2 hrs)	Ref (4 hrs)	Internal **A**	Internal **B**
PC 50/2	PC 50/4	80mm	60mm
PC 75/2	PC 75/4	120mm	85mm
PC100/2	PC100/4	150mm	120mm
PC127/2	PC127/4	170mm	140mm
PC150/2	PC150/4	200mm	170mm
PC175/2	PC175/4	220mm	190mm
PC200/2	PC200/4	245mm	215mm
PC250/2	PC250/4	295mm	265mm
PC300/2	PC300/4	350mm	320mm

FOR OTHER SIZES QUOTE BOTH REF A and B

See price list for full range. Add /C to the end of the references above if you require corner units. Other sizes made to order: state internal dimensions (1 and 2) and the depth (3) as depicted in the illustrations A & B on the left hand page.

INTUMESCENT PROTECTION SLEEVE SYSTEM FOR CABLES

PRODUCT 25



FIRE, SMOKE & ACOUSTIC PROTECTION

A penetration sealing unit consisting of a semi-flexible cylindrical tube and two end plates which house a fireproof sponge smoke seal. The metal cylinder houses the cables and compartmentalises them as they pass through the wall, and the intumescent material fitted internally expand to seal the apertures in a fire.

Application Information

The semi-flexible tube is pushed into the hole for the services – cut to the right size to suit depth of wall or floor. Can be retro-fitted. The smoke protection unit is then screwed to the face of the substrate either side of the hole where your services are to pass through. The units contain a fireproof sponge smoke seal which can be easily cut to allow cables etc. to pass through.
The Intumescent Protection Sleeve System can be fitted over existing services. The semi flexible tube can be cut and fitted around the cables etc. and adhered with the self-adhesive tag then pushed into the wall. The smoke protection units come in two parts and can be screwed around the exiting services either side of the opening.
Once the system is in place, cables and services can be removed and replaced easily.

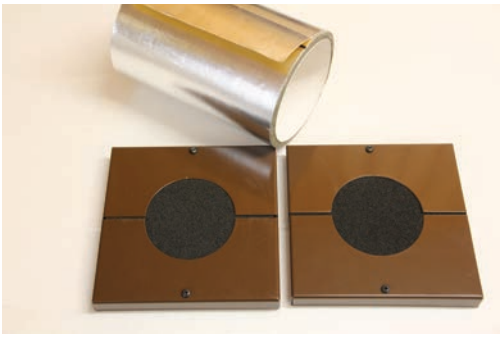
Ordering References

Ref	Internal	External
ICP1	50mm	62mm
ICP2	90mm	102mm
ICP3	115mm	135mm
ICP4	165mm	187mm
ICP5	215mm	240mm

Available from 100mm to 600mm lengths.
Please state length when ordering.
Other sizes available.
Plates available in White or Brown.

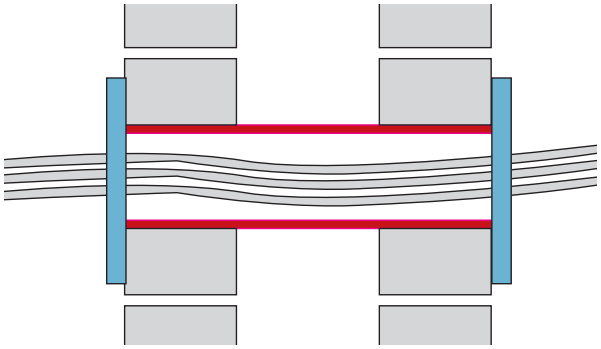
Advantages

– A complete unit providing up to 130 minutes fire and smoke protection for electrical and plumbing services passing through fire barrier walls made from block, brick, concrete, and hollow plasterboard
- Easily removed to allow the maintenance of services. Cables can be easily installed or removed once the unit is fitted



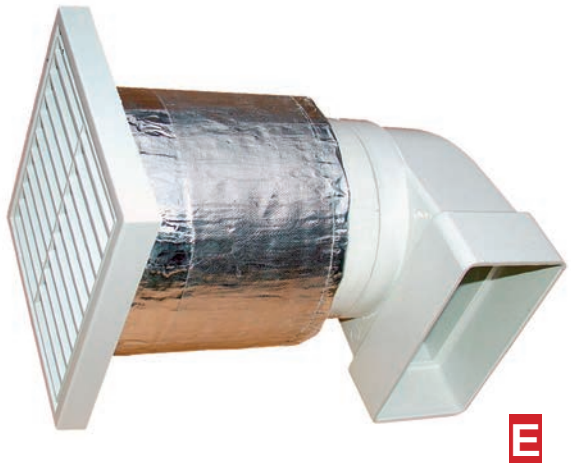
Performance

Tested to BS476 Part 22 (1987), achieving 130 minutes integrity in solid walls and 67 minutes in hollow plasterboard walls.
Tested at VNE to European Standard EN1363-1 (2000).



TOILET/BATHROOM VENTILATION OUTLET PROTECTION

PRODUCT 33



A fibre free intumescent sleeve which allows the expansion and contraction of ventilation ducting, giving protection from fire, smoke and corrosion.

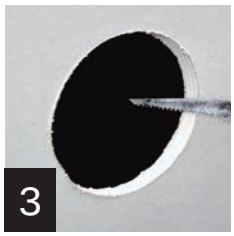
Advantages

– For use where toilet ventilation fans are fitted onto fire rated ceilings or walls, providing up to 2 hours protection
- Simple installation, allowing the pipe to be slid down onto the unit
– Will last a lifetime in-situ and will not degrade or deteriorate.

FIROBLOK® VENT SLEEVE FITTING INSTRUCTIONS (CAN BE EASLIY FITTED ABOVE OR BELOW THE CEILING)

Mark the outline for the Firoblok sleeve on the substrate.

Cut out the hole with a powered hole saw or see step 3.



Neatly cut out the hole with a padsaw and clean edges.

Fit the Firoblok sleeve over the vent and fit to the ducting.

Push the assembly back into the substrate until flush.

The finished vent with fire protection – a neatly finished job!

Ordering References:

Internal intumescent liner (See A):

Ref	(Pipe ID* mm)	Rating
LV 50/1	50	1 hour
LV 75/1	75	1 hour
LV 98/1	98	1 hour
LV100/1	100	1 hour
LV100/2	100	2 hour
LV150/1	150	1 hour
LV200/1	200	1 hour
LV225/1	225	1 hour
LV300/1	300	1 hour

Length of grey PVC 110mm OD* pipe with internal intumescent liner (See B):

Ref	Pipe Length (mm)	Rating
LV225/P	225	1 hour
LV300/P	300	1 hour
LV450/P	450	1 hour

Metal sleeve with internal intumescent liner for cavity walls (See C):

Ref	(Pipe ID* mm)	Rating
LVM100/1	100	1 hour

WARRINGTON FIRE TEST RESULTS FOR THE FIROBLOK® VENT SLEEVES ACHIEVED AN EXCELLENT RESULT – 90 MINUTES INTEGRITY

Metal sleeve with fixing brackets and internal intumescent liner, for suspended or plasterboard ceilings, supplied with fixing screws (See D):

Ref	(Pipe ID* mm)	Rating
LVML 98/1	98	1 hour
LVML100/1	100	1 hour
LVML150/1	150	1 hour

New Firoblok® external protection sleeve for PVC ventilation outlets (See E):

Ref	(Service OD* mm)	Hole (mm)	Rating
EC 80	80	88	1½ hours
EC100	100	105	1½ hours
EC125	125	130	1½ hours
EC150	150	155	1½ hours

*ID=internal diameter & OD=outside diameter

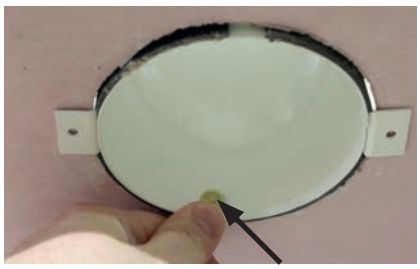
CLVM CLIPPER FOR TOILET VENTILATION FIRE PROTECTION

PRODUCT 33

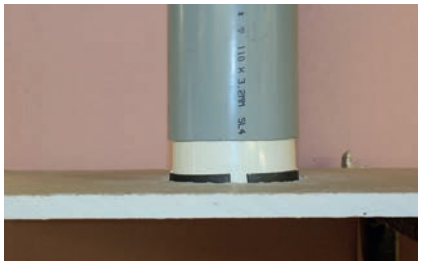
Where toilet ventilation fan units fit onto ceilings or walls, fire protection is needed where either PVC or flexible PVC pipes are used. Envirograf® CLVM allows the pipe to be slid down the unit. Having intumescent inside the top of the unit which seals off in a fire & intumescent round the base of the unit to seal onto the plasterboard or lath & plaster holding the unit into position.

Application Information

Take unit and push into prepared hole in ceiling/wall.



Fasten in position with supplied pins, 2 to side and 2 in the bottom holes.



Slide the PVC or flexible PVC pipe down the unit.

Performance

CLVM Clipper tested BS476 Parts 20 and 22 (1987), achieving an integrity of 120 minutes.

Tested to BS476 Parts 20/21/22 (1987). BS-EN 1363-3 90 minutes fire protection.

Ordering References

Ref	Diameter	Height
CLVM110	110mm	140mm
CLVM150	150mm	140mm

FIRE PROTECTION COATING FOR PVC ELECTRICAL CABLES

PRODUCT 80

Water based, odourless, white intumescent fire retardant coating for cables with plastic casing to prolong the functions of the cables in the event of a fire.

Advantages

– Has no damaging effect on working cables and will not cause them to overheat from everyday use
- Inhibits PVC fumes in the event of a fire
– After application, the coating allows some flexibility without cracking – ideal for cables which require regular maintenance
– Can be easily applied by brush or spray

Application Information

Ensure surface is dry and grease free. Old peeling paint should be removed completely before application.
Stir well before use. Product can be applied using brush or spray. Please observe basic rules for working with paints. Apply at temperatures of over 10ºC and a relative humidity of under 80%. Each litre covers approximately 1m² of bunched cables or approximately 20m of 25mm diameter cable.
Up to 10% water dilution allowed when spraying but ensure correct loadings are applied to area to give maximum fire protection – please contact the technical department for further information.
Drying time: Dries in approximately 1 hour. Thoroughly dry after 24-48 hours depending on the temperature of the surrounding

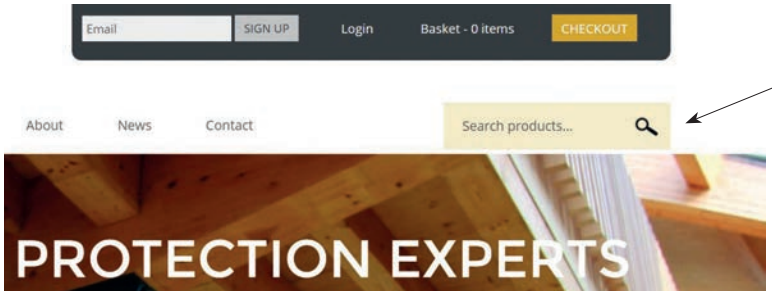
Performance

Tested to BS476 Part 22 (1987), achieving an integrity of 3 hours. The cables continued to carry current for 97 minutes. Tested to European Standard EN13501-2 : 2007, achieving 2 hours of fire protection.

Ordering References

EP/C	1 litre

visit our website www.envirograf.com



Type product number or name to quickly jump to the required product, where you can find:

- **Installation videos**
- **Technical Data Sheets**
- **Online shop**

FIROBLOK INTUMESCENT SLEEVES FOR SERVICES

PRODUCT 110

The most versatile fire protection unit

Firoblok® sleeves are made of a fibre free intumescent material. Ideal for protecting cables, metal and plastic pipes, trunking and ventilation ducting where they pass through fire-rated walls and ceilings, block, brick, concrete or plasterboard. End plates are also available to seal penetrations in walls or floors, allowing services to pass through.

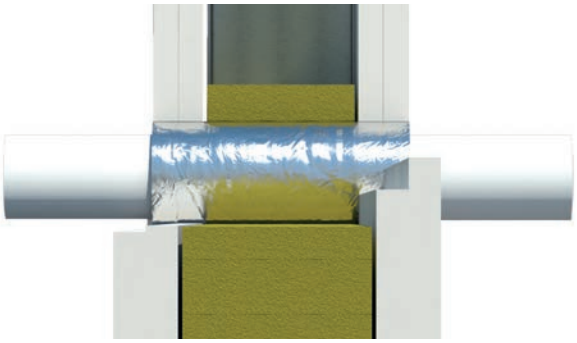
Advantages

– No more corrosion problems due to copper pipes having contact with concrete surfaces
– Meets all regulations
– Can allow for expansion and contraction of hot pipes and gives up to four hours protection
– Easy to cut; no more sawing and de-burring steel pipes
– Can be cut with a knife and off-cuts can be taped together, leaving no waste
– Will last a lifetime in-situ and will not degrade or deteriorate

THIS PRODUCT IS THIRD PARTY ASSESSED BY EFECTIS IN HOLLAND

Application Information

Mark the outline for the Firoblok® sleeve on the substrate.
Cut out the hole with a powered hole cutter or padsaw and clean down edges.
Fit the Firoblok® sleeve over the vent and fit to the ducting or service passing through.
Push the assembly back into the substrate until flush.



FITTED IN JUST FIVE QUICK AND EASY STEPS!

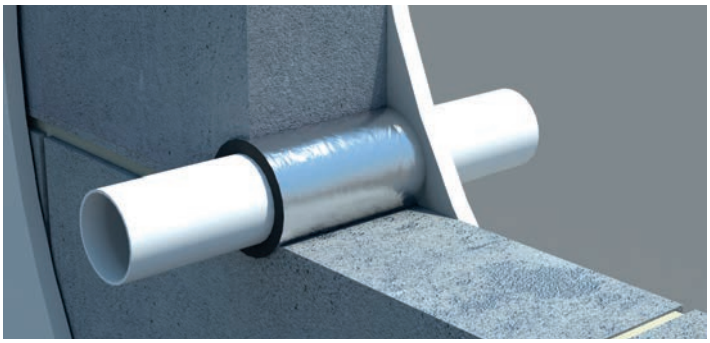
CUT TO DEPTH OF WALL

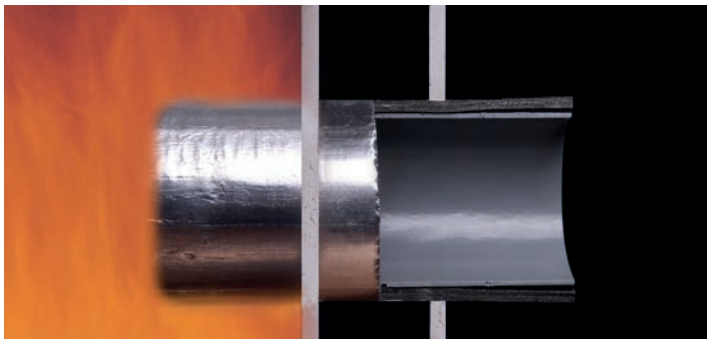
CUT ALONG WHOLE LINE

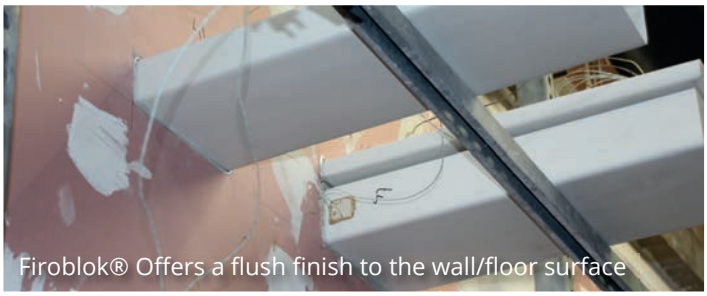
WRAP AROUND SERVICE

FIX SELF-ADHESIVE FLAP

PUSH INTO WALL LEVEL







Firoblok® Offers a flush finish to the wall/floor surface

Firoblok® sleeve will crush the PVC ducting, pipe and trunking, completely sealing the opening for over 67 minutes

FIRE TEST PERFORMANCE	
BS476 Part 20 , 23 (1987) in plasterboard wall	130 minutes integrity
EN13501-2 (2007) in plasterboard wall	68 minutes integrity
BS476 Part 22 (1987) in plasterboard wall	69 minutes integrity 69 minutes insulation
Pr EN 1366-3 in blockwork	78 min integrity 65 min insulation
EN13501-2 :2007 + A1:2009 in plasterboard wall	120 min integrity 96 min insulation
EN13501-2 :2007 + A1:2009 penetration through slab	120 min integrity 50 min insulation
BS EN 1363-1 :2012 in plasterboard wall	130 min integrity

CONTINUE ON THE NEXT PAGE

FIROBLOK INTUMESCENT SLEEVES FOR SERVICES

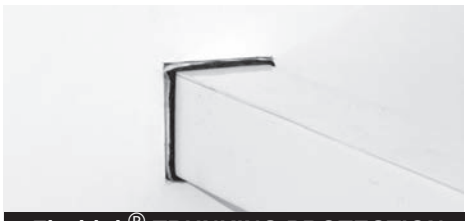
PRODUCT 110

CONTINUED

ORDERING REFERENCES

Firoblok® VENTILATION PROTECTION

Firoblok® PIPE PROTECTION



Firoblok® TRUNKING PROTECTION

FOR CABLES, PIPES AND TRUNKING

Ref	Internal Dia	External Dia	Intumescent Thickness
IWS 18	18mm	22mm	2mm
IWS 25	25mm	32mm	2mm
IWS 33	33mm	43mm	3mm
IWS 40	40mm	53mm	3mm
IWS 50	50mm	62mm	4mm
IWS 55	55mm	65mm	4mm
IWS 60	60mm	70mm	4mm
IWS 83	83mm	97mm	5mm
IWS 90	90mm	102mm	6mm
IWS100	100mm	116mm	6mm
IWS115	115mm	135mm	8mm
IWS127	127mm	147mm	10mm
IWS150	150mm	173mm	10mm
IWS165	165mm	187mm	10mm
IWS215	215mm	240mm	10mm

Other sizes made to order.

FOR VENTILATION DUCTING

Ref	size	Int. thickness
110V/15	110mm x 54mm	4mm
110V/26	204mm x 60mm	4mm
110V/29	220mm x 90mm	6mm
110V/22	234mm x 29mm	3mm
110V/32	308mm x 29mm	3mm
110V/67	692mm x 70mm	5mm

FOR PLASTIC TRUNKING

Ref	size	Int. thickness
110T/11	25mm x 25mm	2mm
110T/22	50mm x 50mm	4mm
110T/33	75mm x 75mm	5mm
110T/32	75mm x 50mm	4mm
110T/42	100mm x 50mm	4mm
110T/43	100mm x 75mm	5mm
110T/43	100mm x 100mm	8mm

FIROBLOK® - FIRE & THERMAL PROTECTION SLEEVE FOR PIPES, TRUNKING AND CABLE BASKETS

FIRE & THERMAL PROTECTION FOR CABLE BASKETS IN ALL SIZES

Ref	Cable basket size	Internal Width	Internal Height	Length
CBC 60	50mm x 54mm	60mm	64mm	200mm
CBC 95	75mm x 54mm	95mm	64mm	200mm
CBC120	120mm x 54mm	120mm	64mm	200mm
CBC170	150mm x 54mm	170mm	64mm	200mm
CBC222	200mm x 54mm	222mm	64mm	200mm
CBC274	250mm x 54mm	274mm	64mm	200mm
CBC324	310mm x 54mm	324mm	64mm	200mm
CBC428	400mm x 54mm	428mm	64mm	200mm
CBC478	500mm x 54mm	478mm	64mm	200mm

THERMAL & ACOUSTIC SLEEVE 44dB Airborne 74dB Impact U Value = 1/1.034 = 0.967 W/m²k

FIRE & THERMAL PROTECTION FOR PIPES (including flue pipes)

This product is made to order. Please specify the size you require.

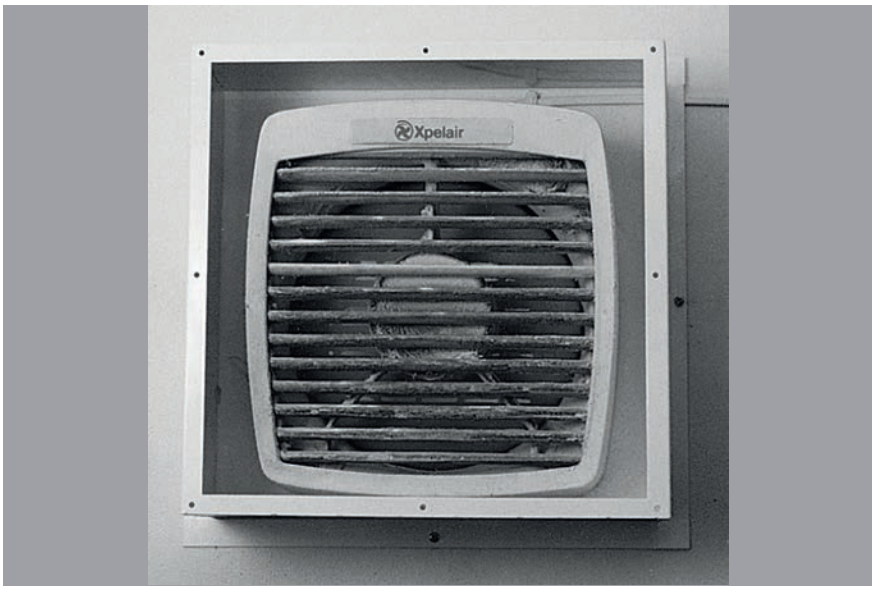
- Simple installation
- Thermal & Acoustic properties
- Supports existing insulation
- Protects pipes from corrosion
- Offers a flush finish to the wall/floor surface
- Moisture resistant
- Can be cut to size to suit cavity/wall thickness

Fire and thermal protection for pipes

Fire stopping for flue pipes

INTUMESCENT FAN COVERS

PRODUCT 14

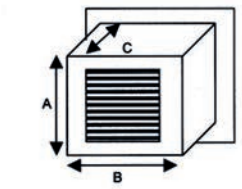


Advantages

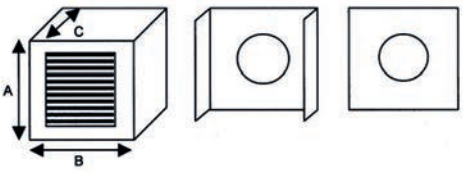
– For use with electrical ventilation extractor units installed in fire barrier walls or glazing systems, providing up to 73 minutes integrity
– Can be installed over most leading makes of electric fan, including VentAxia, Xpelair and more
– Can be supplied with smoke shutters activated by 24V electromagnet with auto-reset solenoid
– Provides fire and smoke protection, ideal for use in escape corridors and staircase fire escapes

ILLUSTRATIONS

WALL MOUNTED VERSION



GLASS MOUNTED VERSION



Order References

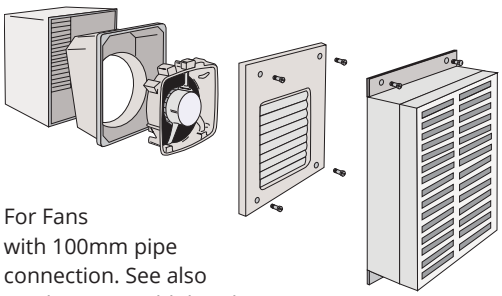
REF	A	B	C	DIAM
FCG5	315mm	315mm	150mm	260mm
FCG10	285mm	285mm	140mm	222mm
FCG12	390mm	390mm	170mm	337mm
FCG14	210mm	210mm	50mm	110mm
FCG19	430mm	430mm	200mm	
FCW1	310mm	310mm	20mm	
FCW5	315mm	315mm	150mm	
FCW10	285mm	285mm	140mm	
FCW12	390mm	390mm	170mm	
FCW14	430mm	430mm	40mm	
FCW18	210mm	210mm	50mm	
FCW19	430mm	430mm	187mm	
FCW20	458mm	429mm	30mm	

For use with Vent-Axia, Expelair and other fan types. Please contact Technical Department for further information.

A cover for fan units mounted on either walls or windows. The cover fits around the fan unit and is affixed to the wall or window. The unit is fronted with an MG Grille (Product 35), fitted with intumescent strips to expand in a fire and seal the openings, thus preventing fire and smoke from spreading.

Application Information

The wall-mounted unit simply fits over the fan unit, offering one hour fire protection. This can be fixed to brick, block or concrete using rawl plugs & steel screws (32mm No8 or No10 screws or small rawl bolts). For plasterboard or lath & plaster walls before the plasterboard is applied metal or timber fixings can be allowed for while building, otherwise if fixing to existing walls or ceilings use steel butterfly toggle bolts.
The glass mounted unit consists of two plates, that are fitted to either side of the glass, between the internal rear section of the fan and the external front section. The fan unit is then constructed and fixed as usual around the plates. The grille unit is attached to the externally fitted plate with self tapping screws.



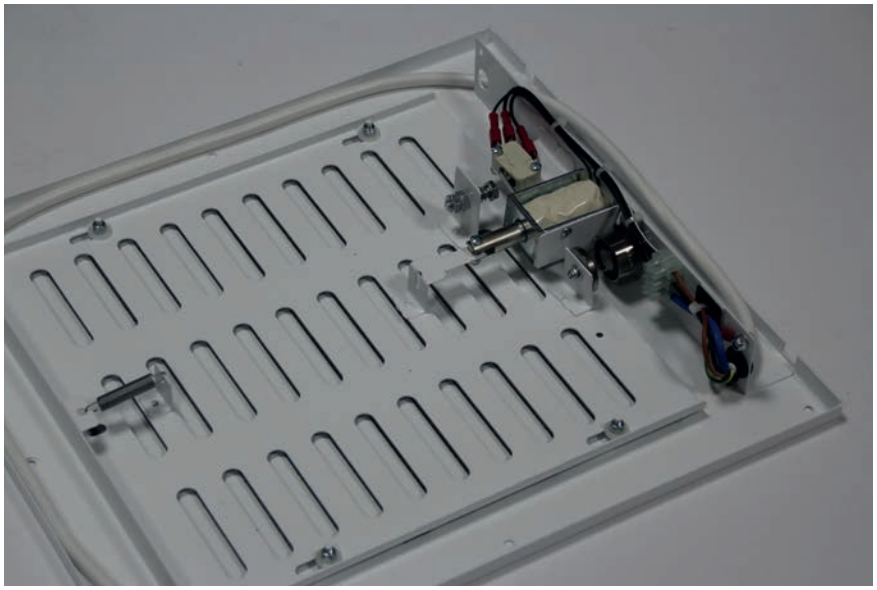
For Fans with 100mm pipe connection. See also Product 33 Firoblok® sleeves for air conditioning/ ventilation outlet protection (page 35) and LV for Loo Vents.

FIRE TEST PERFORMANCE

Contains a front MG grille, tested to BS476 Parts 20 & 22 (1987), achieving up to 73 minutes integrity.
Tested at VNE to European Standard EN1363-1 (2000).

INTUMESCENT FIRE AND SMOKE GRILLES

PRODUCT 34



Advantages

– Provides up to 73 minutes integrity- Can be wired into an existing 24V fire/smoke alarm system, or into an Envirograf® CTJ1 control unit to 24V control unit. This unit can be used to control up to 3 TJ grilles

– Four resetting options are available for the grille:

( ) Manual re-set (by hand, with a screwdriver or knife) with a permanent loading of 125mA 24V

(A) An automatic re-set grille with a permanent loading of 125mA, with a re-set loading of 8A 24V for a period of 1 second

(TL) A non-electrical grille containing a thermal breaker that automatically activates at 70ºC, moving the shutter to the closed position

(MS) A non-electrical grille containing a memory spring device that operates in the temperature range 50ºC to 65ºC, closing the shutter to fire and smoke in about 47 seconds

Order References

NTJ1	140 x 280mm	200 x 340mm
NTJ2	240 x 280mm	300 x 340mm
NTJ3	190 x 305mm	250 x 365mm
NTJ4	270 x 305mm	325 x 365mm
NTJ5	340 x 380mm	400 x 440mm

References shown for manual reset grilles only. Other made to order.

Without a suffix – Manual Reset Type

Add suffix /A for auto reset grille

Add suffix /MS for memory spring grille

Add suffix /TL for thermal break grille

The Envirograf® TJ Grille offers full fire and smoke protection for openings in walls, ceilings and fire doors, or at the entry point of ventilation ducting. Automatically seals off in a fire and is available with a variety of resetting options.

Application Information

The TJ grille can be fitted into doors, walls and partitions. Cut a hole in the door or wall to the sizes as quoted in the Order References – other sizes can be made to suit your opening (price quoted on request).

The grille is fitted into the aperture and screwed to the wall, door or partition. The intumescent plate is screwed to the opposite side of the door, wall or partition to the main unit. This intumescent plate need not be fitted if the main unit is fitted in ventilation ducting. The plates can be supplied with open slots which allow viewing or louvered for non-viewing.

The grilles are supplied to be open normally and close up in a fire. However, all of these grille types can be made to be closed normally and to open in the event of a fire, to alleviate smoke containment.

FIRE TEST PERFORMANCE

Intumescent fire and smoke grilles tested to BS476 Part 20 (1987), achieving an integrity of 66 minutes.

Automatic closure grille tested to BS476 Parts 20 & 22, achieving 73 minutes fire protection.

EN/F FLEXIBLE FILLER KIT FOR PIPES AND CABLES

PRODUCT 146

EN/F is a powerful intumescent filler kit, which can be used to seal gaps around penetrations in both hollow and solid walls, floors and ceilings. Our EN/F Kit is an effective and economical sealing solution with a wide range of applications.

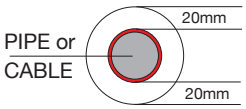
Advantages

– Suitable for use with aluminium, copper, plastic and steel pipes up to 66mm diameter
– Can also be used for cables (including armoured cables, MICC and flexible cable types) up to 32mm diameter
– EN/F2, our white intumescent sealant, is ideal for use as a decorative finish and comes as part of the EN/F Kit
– Both EN/F sealant types are made of water-based materials which become water-resistant once cured

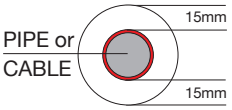
Application Information

The cartridges marked EN/F1 (the dark grey intumescent graphite compound) are for filling around the services from 30mm into the hole and up to 10mm from the front surface. The cartridge marked EN/F2 (the white intumescent sealant) is used to fill the gap from the grey material to the front surface of the plasterboard or block wall. The surface can then be levelled using a decorator's spatula. Once cured, the surface material can be painted over.

Plasterboard:
In plasterboard walls the hole must be 40mm larger in diameter that the services passing through. For example, a 50mm diameter pipe would require a hole size 90mm in diameter.



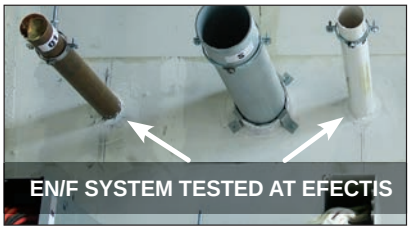
Solid Substrate:
For brick, block and concrete ceilings and walls the hole must be 30mm larger in diameter than the service. For example, a 50mm diameter pipe would require a hole size 80mm in diameter.

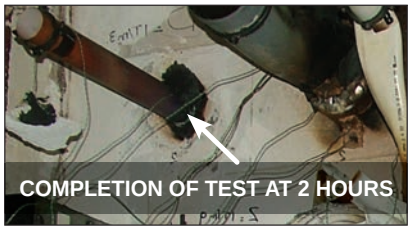


Performance

Tested at Efectis to EN 13501-2:2007 + A1:2009, achieving 120 minutes integrity.


EN/F SYSTEM TESTED AT EFECTIS


EN/F SYSTEM TESTED AT EFECTIS


COMPLETION OF TEST AT 2 HOURS

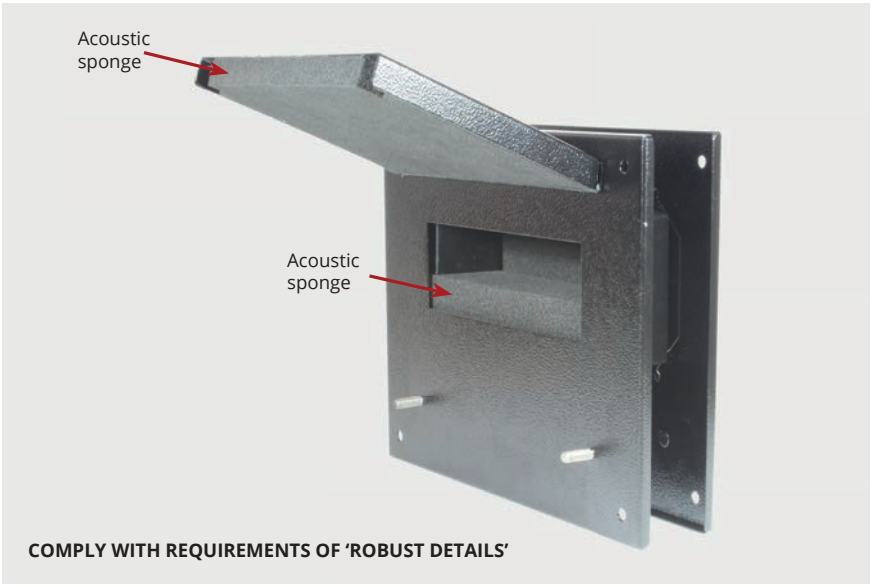

COMPLETION OF TEST AT 2 HOURS

Ordering References

Ref	Contains
EN/F1	1 x 310ml tube (dark grey)
EN/F2	1 x 310ml tube (white)
EN/F Kit	2 x 310ml tube (dark grey), 1 x 310ml tube (white)

FIRE AND ACOUSTIC CABLE MANAGEMENT SYSTEM

PRODUCT 149



COMPLY WITH REQUIREMENTS OF 'ROBUST DETAILS'

A two-part metal unit which offers both acoustic and fire protection where cables are required to pass through ceilings or walls. Attached to the wall either side of the service opening, the hatches on either side of the unit are opened to allow cables up to 25mm diameter to pass through, whilst maintaining the integrity of the wall or ceiling.

Advantages

– Full acoustic protection is provided by the sponge lining

– Unit is also lined with intumescent to provide up to 60 minutes fire protection

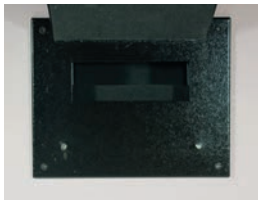
– Ideal for use in recording studios, practice rooms, or other soundproofed areas requiring cable access

Application Information

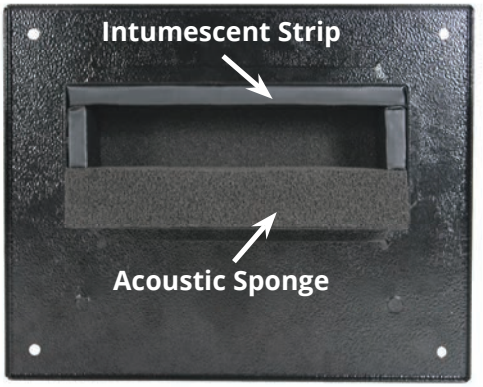
The unit is screwed onto the wall using the screws supplied, either side of the service opening. Multiple cables can be passed through. When cables are removed the sponge will return to its original shape.

Wall section top view open.

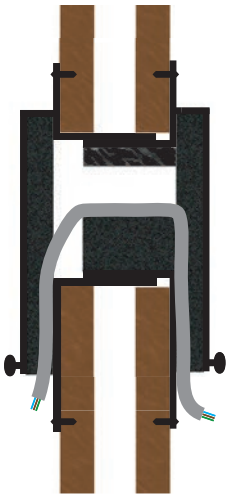
Wall section top view closed.



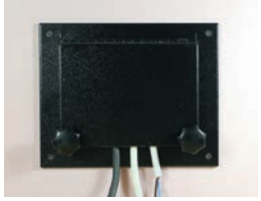
Fully sound and fire proof thanks to acoustic sponge and intumescent strips.



- As long as you can cut a hole in the wall or ceiling, you can easily install this product.
- Simply screwed onto the wall by 4 supplied screws.
- Can be finished in any RAL colour.
- Maximum cable diameter is 25mm for standard units.
- Once the cable has been removed, sponge will return to it's original shape.



Just pass through the cables and screw back.



You can put multiple cables through.

Fire Performance

Tested in accordance with NEN 6069 for up to 60 minutes.

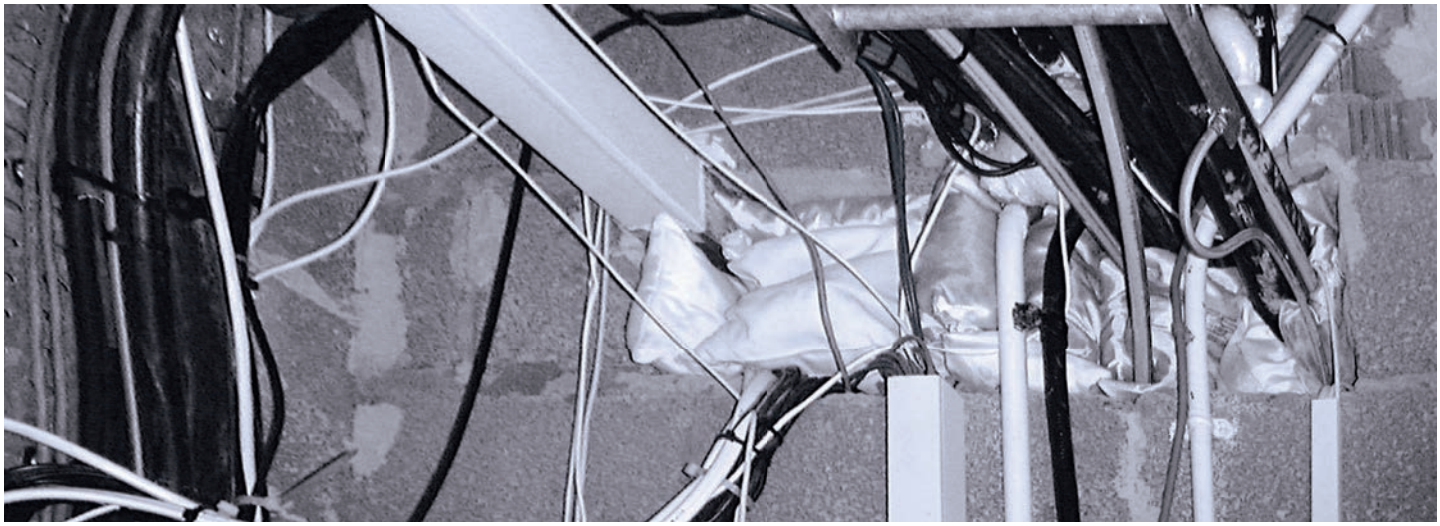
Acoustic Performance

Airborne sound insulation test rated in accordance with BS EN ISO 717-1:1997
Rw (C;Ctr) = 43 (-3;-8) dB
Impact sound insulation test rated in accordance with BS EN ISO 717-2:1997
Ln,w (Ci) = 74(-1) dB

Ordering References

Ref	External size (WxH)	Cable aperture (WxH)	Cut hole size (WxH)
CPT1	250mm x 200mm	180mm x 45mm	180mm x 80mm
CPT2	400mm x 200mm	300mm x 45mm	330mm x 80mm
CPT3	250mm x 250mm	150mm x 95mm	180mm x 130mm
CPT4	400mm x 250mm	300mm x 95mm	330mm x 130mm

GAP FILLERS



INTUMESCENT FIRE AND SMOKE STOP PILLOW

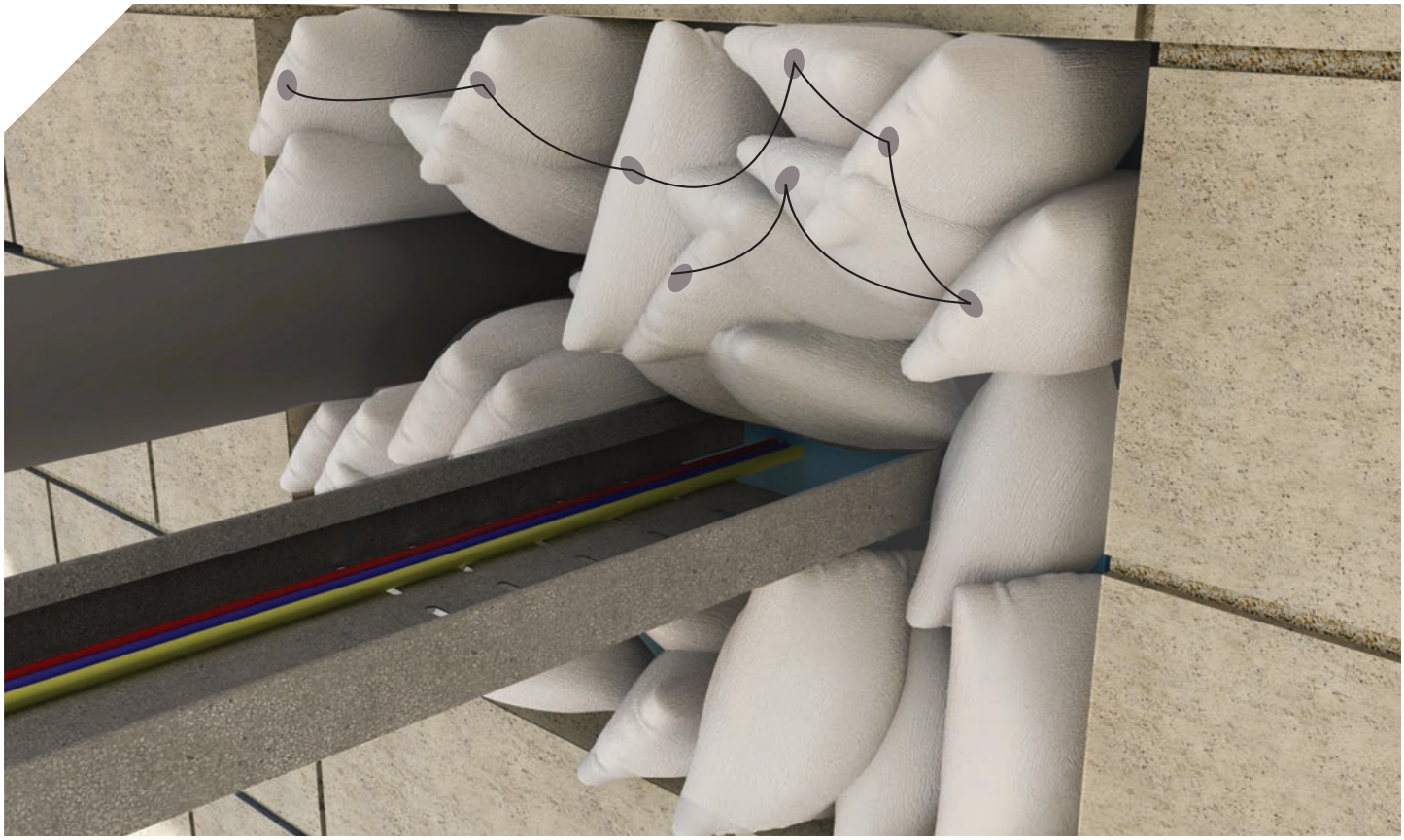
PRODUCT 1

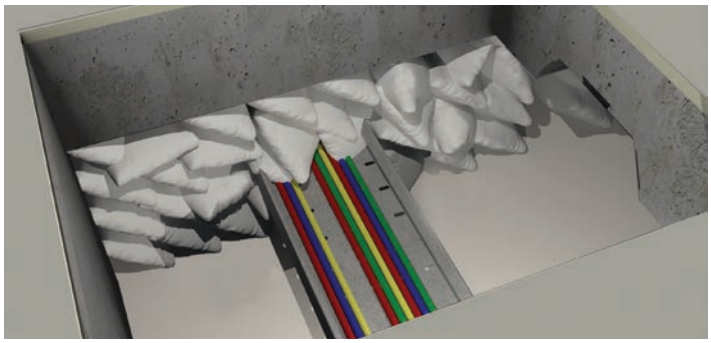
A reinforced glass cloth intumescent pillow filled with fireproof sponge and intumescent material which expands to 3 times its original size in a fire, fire stopping gaps around services in walls, floors or ceilings.
Pillows will expand at low pressure, locking together to seal off fire without pushing services out of alignment.

Advantages
– Ideal for awkward gaps as it can be compressed
– A good temporary solution, providing up to 2 hours fire resistance
– Can be fitted with cord and 100mm retention tag to fix the pillows in place as a permanent solution
– Great for use around cables which are regularly adjusted
– Non-fibrous, dust-free materials are suitable for use in sterile areas or clean rooms

Application Information

The pillows can be folded to fit between pipes and services. For vertical openings i.e. In walls, build the pillows in rows and staggered in formation, compressing each pillow to ensure all gaps are filled to stop the passage of smoke. For horizontal openings i.e. floors, build together as in walls, but where openings are greater than 700mm x 400mm, to prevent sagging, supply additional support by fixing wire mesh into the opening first.





Ordering References

Ref	Size	Ref	Size
P1	40 x 150 x 150mm	**P3**	40 x 300 x 300mm
P2	40 x 225 x 225mm	**P4**	40 x 127 x 250mm

20 sizes in price list plus special orders

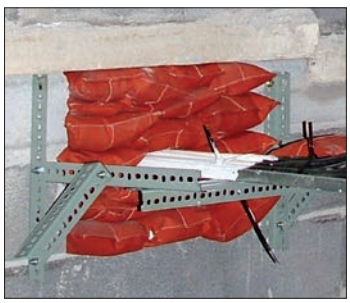
In areas requiring removal and re-fitting of pillows, security tags can be fitted

Performance

Tested to EN 13501-2:2007+A1:2009, achieving 120 minutes integrity.

Tested to BS476 Part 22 (1987), achieving 181 minutes integrity.

Tested at VNE to European Standard EN1363-1 (2000), achieving 2 hours protection.

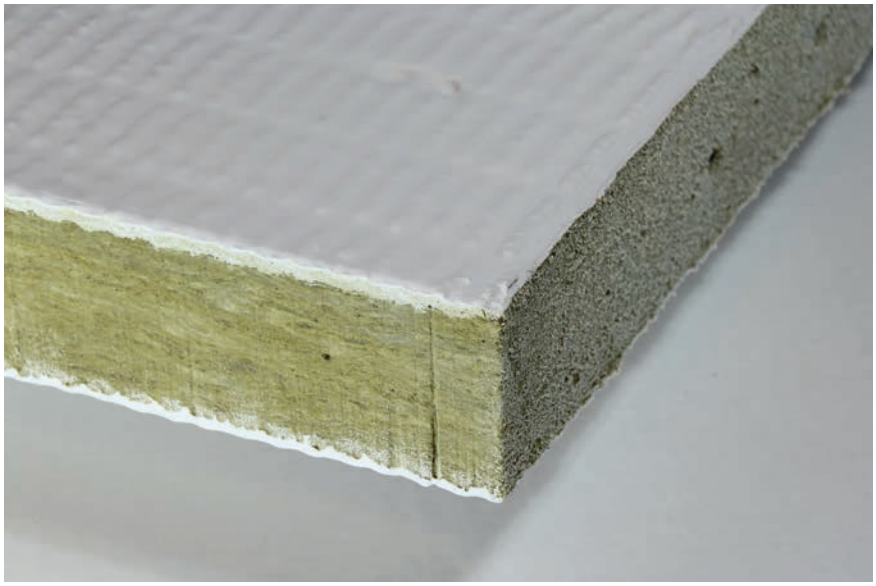


INTUMESCENT COATED SLABS

PRODUCT 4

UNIQUE INTERWOVEN DESIGN - EASY TO CUT, BUT WON'T BREAK APART

DENSITY: 240 KG/M³ WITH MASTIC



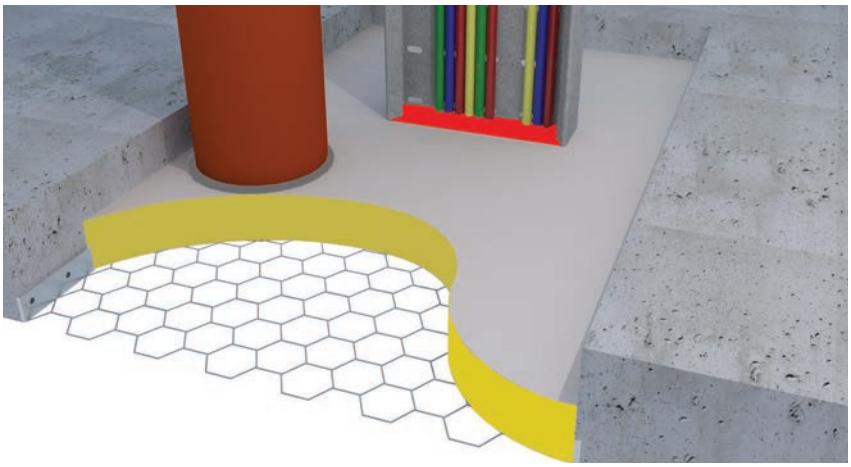
A high density rockwool slab with an intumescent coating on both main faces. These slabs are suitable for use as a permanent fire barrier in non-load bearing walls, floors and ceilings, or around services.

Advantages

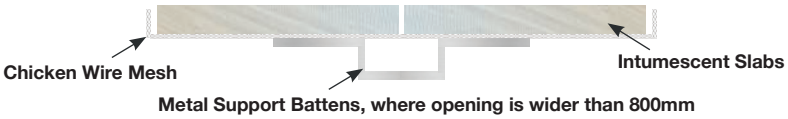
– Due to its high density, it can be used for large openings in floors, walls and ceilings
– Offers effective acoustic protection by impeding sound transfer through the centre of the structure and across its surface
– Ideal for use under raised flooring as a firebreak, providing 1-4 hours fire protection

Application Information

Where the slab is in a wall situation, just cut the slab to fit into the opening adhering with the adhesive supplied, ensuring that Envirograf® Wraps are fitted around any PVC, copper or steel pipes and PVC electrical trunking.
For steel electrical trunking fit pads inside where passing through the slab. For cable trays, then use Envirograf® Product 29 cable tray pillows.
For floor openings 1m² without support. For hole sizes over 1m², firstly fit wire mesh 1½" diameter, support around the perimeter with Envirograf® FB/C1 Metal Supports and wire mesh to services passing through the opening. For large openings Product 4, ref: SUP Metal Support battens can be used.



This product installed correctly is as strong as a wall



Performance

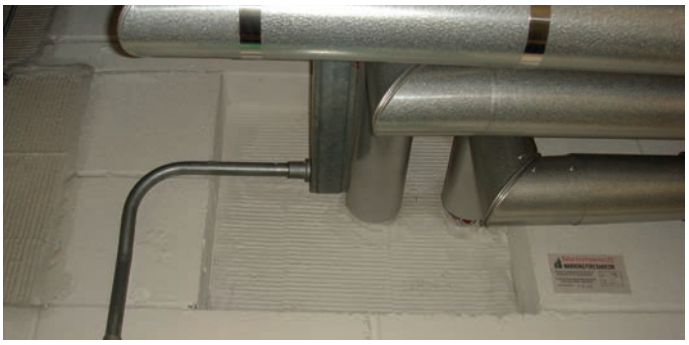
Tested to BS476 Part 22 (1987), achieving integrity of 240 minutes.
Tested to European Standard EN1366-3:2009 and EN 13501-2:2007.

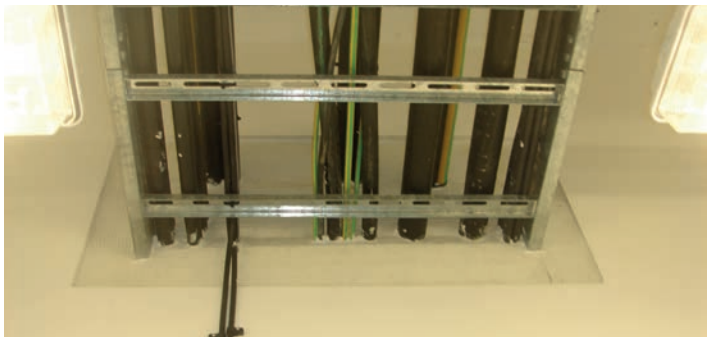
Ordering References

REF	THICKNESS	COATING	SLAB SIZES	PROTECTION
IS 60	60mm	Double-Sided	1200mm x 600mm	4 hours
SUP	Metal Support Batten for large floor openings (per metre)			

All slabs supplied with jointing compound.

Offers effective acoustic protection by impeding sound transfer through the centre of the structure and across its surface





INTUMESCENT SLABS INSTALLED AT LONDON UNDERGROUND STATIONS:

OXFORD STREET

BOND STREET

TOTTENHAM COURT ROAD

ENVIROBRICK – INTUMESCENT FIRE BRICK AND SEAL

PRODUCT 8

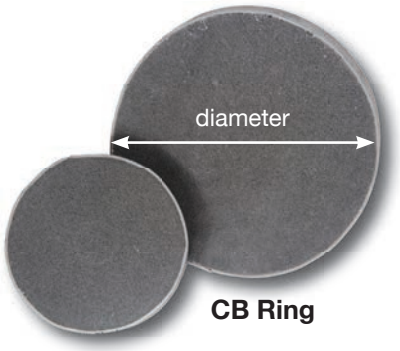
Comes in two types:

– A rectangular foam brick which fits around any shape or size of service, including cable trays, providing a temporary or permanent fire seal

– A cylindrical foam plug which fits inside of pipes, providing an effective fire stopping barrier which cables or other services can pass through

EM215/1

EM215/2



CB Ring

Advantages

– A temporary or permanent fire protection solution for sealing openings where pipes, cable trays and cables pass through in hollow partition walls, floors or ceilings
– Available in a 1-hour form, or a 2-hour intumescent-coated form
– Both types are fitted with rubberised intumescent strips which expand in a fire, sealing the opening, preventing the smoke and flames from spreading
– Bricks can be fitted either horizontally or vertically into hollow plasterboard walls to effectively fire stop voids.

Tested at Efectis Holland

Ordering References

RECTANGULAR FOAM BRICKS

REF	DIMENSIONS
EM215	200mm x 130mm x 50mm

NB: EM---/1 = 1 hour; EM---/2 = 2 hours

CIRCULAR FOAM PLUGS

REF	DIAMETER
CB 65	65mm
CB 75	75mm
CB100	100mm
CB125	125mm
CB150	150mm
CB200	200mm
CB250	250mm
CB300	300mm

NB: CB---/1 = 1 hour; CB---/2 = 2 hours

Performance

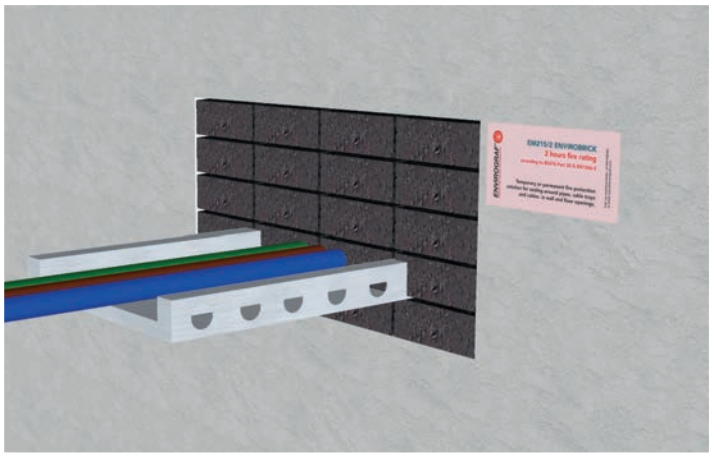
Tested to BS476 Part 20 & EN1366-3, achieving up to 2 hours fire protection.
Acoustic properties tested to BS EN ISO 140 Part 4 (57 dB).

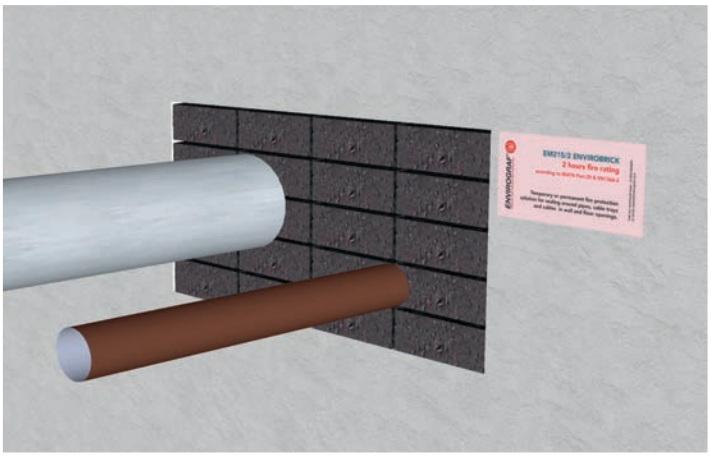
Application Information

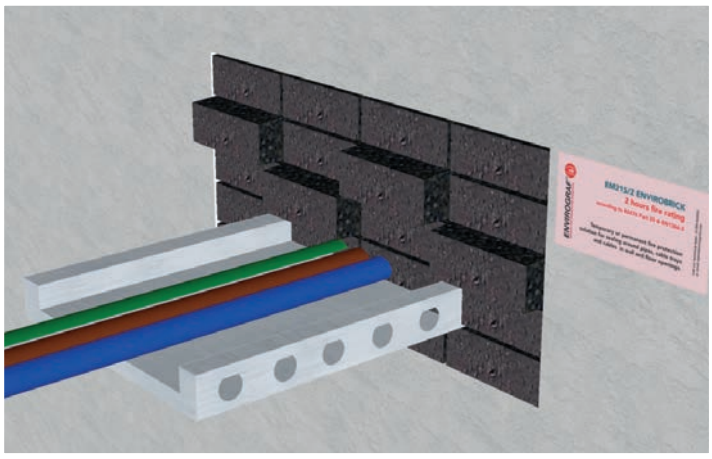
Envirobrick is very easy to install. Can be cut to fit if necessary using a sharp knife.
Lay the Envirobrick rectangular blocks as bricks to fill any size opening. Can be fitted either way into hollow plasterboard walls – if fitting into a hollow partition wall greater than 200mm we can make a wall lining to fit into the width of the opening first.

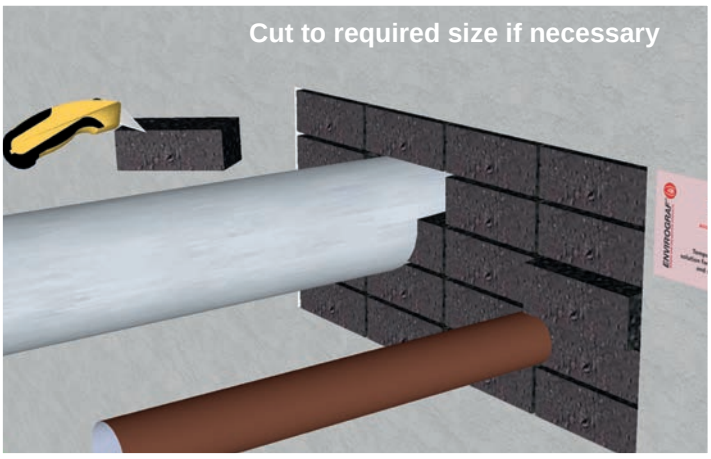
Envirobrick circular seals can be used for filling circular holes or pipes and can be cut for pipes, cables, trunking etc to pass through.
Envirograf® black mastic can be used to fill any open joints. Envirobricks can be removed and refitted as required.

EASY INSTALLATION, JUST LAY THEM AS BRICKS. SUITABLE FOR WALLS, FLOORS AND CEILINGS







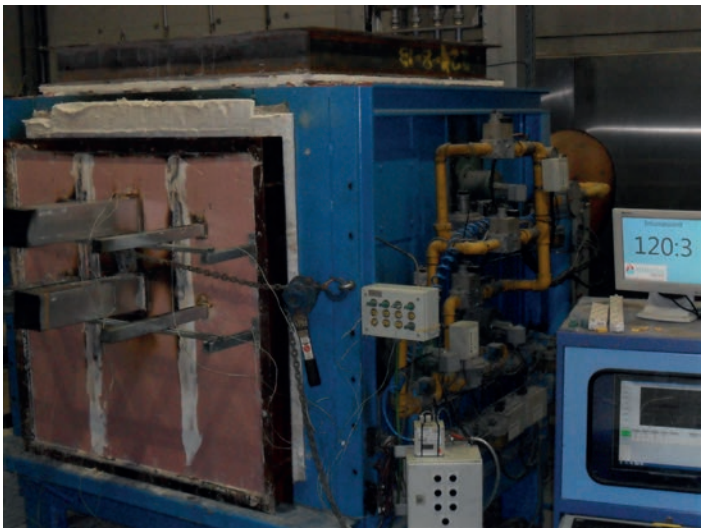


TRUNKING AND CABLE TRAY PROTECTION

TRUNKING PROTECTION SPECIFICATION

	FIRE	SMOKE	CABLE CAPACITY
26 TRUNKING PADS	✓		50%
27 TRUNKING PILLOWS	✓	✓	30%
110 FIROBLOK Page 38	✓		100%

Trunking products tested at Efectis



Completion of the test - trunking fully sealed

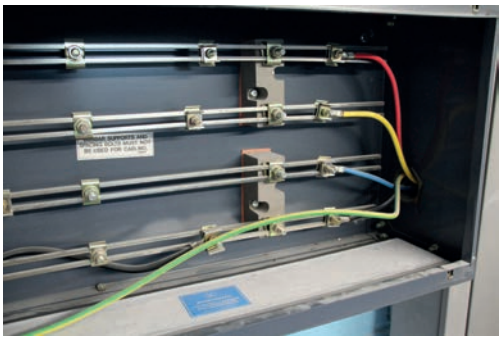
INTUMESCENT PADS

PRODUCT 26

Pads with adhesive on one side which are designed to be fixed to the inside of plastic or metal trunking situated in between fire rated walls or ceilings. The intumescent in the pads will expand in a fire and seal the inside of the trunking to prevent fire and smoke spreading through it. Specifically designed to compress cables and fill the entire width of the trunking.

Advantages

– Provide up to 3 hours protection for trunking passing through fire barrier walls, floors or ceilings
- Slim profile allows cable maintenance to be carried out without removing the pads
– Adhesive-backed and easily fitted in seconds
– Specifically designed to be used in trunking that is 50% full of cables or more



Application Information

For trunking sizes not exceeding 100mm x 100mm, only one intumescent pad is required per penetration. For trunking sizes equal to or exceeding 150mm x 150mm, two intumescent pads are required per penetration.
The self- adhesive backing on the pad is revealed by removal of the protective covering paper, taking care not to touch the adhesive surface against fingers, dust, etc. for maximum adhesion strength. The pad is placed inside the trunking and within the penetration area, and then pressed firmly against the inside surface at one side of the trunking.

Performance

Tested to BS476 Part 22 (1987), achieving an integrity of 181 minutes. Tested at VNE to European Standard EN1363-1 (2000). Test terminated at 150 minutes with no product failure recorded.
Also tested to European Standard EN13501-2:2004.

Ordering References

Ref	Trunking Size	No.pads	Ref	Trunking Size	No.pads
IP 21	50mm x 25mm	1	IP 64	150mm x 100mm	2
IP 22	50mm x 50mm	1	IP 82	200mm x 50mm	2
IP 33	75mm x 75mm	1	IP 83	200mm x 75mm	2
IP 31	75mm x 25mm	1	IP 85	200mm x 125mm	2
IP 32	75mm x 50mm	1	IP 92	225mm x 50mm	2
IP 44	100mm x 100mm	1	IP 93	225mm x 75mm	2
IP 41	100mm x 25mm	1	IP 96	225mm x 150mm	2
IP 42	100mm x 50mm	1	IP 99	225mm x 225mm	2
IP 43	100mm x 75mm	1	IP123	300mm x 75mm	2
IP 66	150mm x 150mm	2	IP126	300mm x 150mm	2
IP 62	150mm x 50mm	2	IP153	375mm x 75mm	2
IP 63	150mm x 75mm	2			

Look at Product 110 as an alternative for plastic trunking. page 38

INTUMESCENT TRUNKING PILLOWS

PRODUCT 27

A reinforced glass cloth pillow filled with fireproof sponge and intumescent material which expands to 2 times its original size in a fire, fire stopping gaps inside plastic or metal trunking in walls, floors or ceilings.
Pillows will expand at low pressure, locking together to seal off fire without negatively impacting the integrity of the trunking.

Advantages

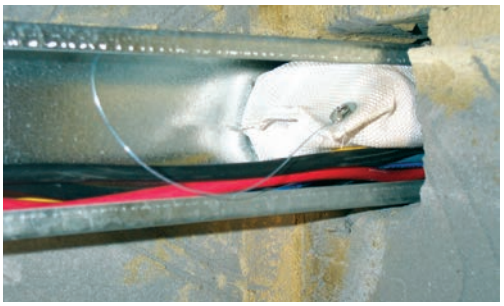
– Provide up to 4 hours integrity
– For use when cold smoke as well as fire protection is required in steel or PVC trunking passing through walls, floors and ceilings
– Can be fitted with cord and 100mm retention tag to fix the pillows in place as a permanent solution
– Great for use around cables which need regular maintenance
– Non-fibrous, dust-free materials are suitable for use in sterile areas or clean rooms
– Specifically designed to be used in trunking that is less than 30% full of cables

Application Information
Intumescent Trunking Pillows are available in a range of sizes to suit standard sizes of trunking. Used where trunking passes through fire rated floors and walls. The pillows are simply pushed into place in the trunking where it passes through walls and floors. Supplied with a fitted cord and lug which can be attached inside the trunking to ensure pillows will be refitted after removal for maintenance or access.

Performance
Tested to BS476 Part 22 (1987), achieving up to 4 hours integrity. Tested at VNE to European Standard EN1363-1 (2000). Test terminated at 150 minutes with no product failure recorded.

Order References

Ref	Trunking	Length	Pillow Size
TP 21	50mm x 25mm	100mm	50mm x 16mm x 100mm
TP 22	50mm x 50mm	100mm	50mm x 35mm x 100mm
TP 31	75mm x 25mm	100mm	75mm x 16mm x 100mm
TP 32	75mm x 50mm	100mm	75mm x 35mm x 100mm
TP 33	75mm x 75mm	100mm	75mm x 50mm x 100mm
TP 41	100mm x 25mm	100mm	100mm x 16mm x 100mm
TP 42	100mm x 50mm	100mm	100mm x 35mm x 100mm
TP 43	100mm x 75mm	100mm	100mm x 50mm x 100mm
TP 44	100mm x 100mm	100mm	100mm x 70mm x 100mm
TP 62	150mm x 50mm	100mm	150mm x 35mm x 100mm
TP 63	150mm x 75mm	100mm	150mm x 50mm x 100mm
TP 64	150mm x 100mm	100mm	150mm x 70mm x 100mm
TP 66	150mm x 150mm	100mm	150mm x 110mm x 100mm
TP 84	200mm x 100mm	100mm	200mm x 70mm x 100mm
TP 93	225mm x 75mm	100mm	225mm x 50mm x 100mm
TP 99	225mm x 225mm	100mm	225mm x 170mm x 100mm
TP126	300mm x 150mm	100mm	300mm x 110mm x 100mm



INTUMESCENT CABLE TRAY PILLOW

PRODUCT 29

A reinforced glass cloth pillow filled with fireproof sponge and intumescent material which expands to 3 times its original size in a fire, protecting gaps in or around plastic and metal cable trays in walls, floors or ceilings.
Pillows will expand at low pressure, locking together to seal off fire without negatively impacting the integrity of the cable tray.

Application Information

Intumescent Cable Tray Pillows are available in a range of sizes to suit standard sizes of cable tray.
Used where cable trays pass through fire rated ceilings, floors and walls. The pillows are simply pushed into place in the wall, floor or ceiling opening where the cable tray passes through. Supplied with a retention cord and tag which can be riveted or screwed onto the cable tray to ensure pillows will be refitted after removal for maintenance or access.
Any open areas fill with AM Mastic

Advantages

– Provide up to 4 hours integrity
– For use when cold smoke as well as fire protection is required in steel or plastic cable trays passing through walls, floors and ceilings
– Can be fitted with cord and 100mm retention tag to fix the pillows in place as a permanent solution
– Great for use around cables which are regularly adjusted
– Non-fibrous, dust-free materials are suitable for use in sterile areas or clean rooms

Performance

Tested to BS476 Part 22 (1987), achieving an integrity of 181 minutes.
Tested at Cidemco to European Standard EN13501-2 (2004).
Tested at Efectis to European Standard EN1363-1 (2000). Test terminated at 150 minutes with no product failure recorded.

Order References

Ref	Size	Depth
TE2	50mm x 50mm	100mm
TE3	75mm x 50mm	100mm
TE4	100mm x 50mm	100mm
TE5	127mm x 50mm	100mm
TE6	150mm x 50mm	100mm
TE8	200mm x 50mm	100mm
TE9	225mm x 50mm	100mm
TE12	300mm x 50mm	100mm

If protection for cable baskets is required, please look at Product 110 on page 41.

SEALANTS, FILLERS AND MASTICS

ACRYLIC THIXOTROPIC ADHESIVE

PRODUCT 46

A water resistant and fire retardant adhesive, ideal for use in binding a wide range of materials used in fire resistant applications.

Advantages

– Provides up to 125 minutes integrity and 55 minutes insulation
- Specially designed for bonding paper, card, wood, foams, coated glass cloth, polystyrene, vinyls and foils to each other and most common construction materials

Application Information

Surfaces should be cleaned prior to application to ensure good bond results. If applying to wood, rub down with glass paper, dust off to give a 'KEY' for the adhesive. Apply evenly to both surfaces with a comb applicator and press the surfaces together. Rub down with a small wallpaper roller to make sure it has a good adhesion. Wipe off any excess using a damp sponge. Check assembly after 20 minutes, in case of movement. Tools can be cleaned in warm water.

Performance

Used to adhere intumescent paper onto door panels in fire resistance testing to BS476 Part 22 (1987) on various doors with differing constructions, achieving integrity and insulation up to 68 minutes.
Tested to BS476 Part 21 (1987), achieving 90 minutes integrity.
Tested at Cidemco to European Standard EN1363-1 (2000), achieving 2 hours integrity.
Tested at Efectis to EN 1634-1 : 2000.

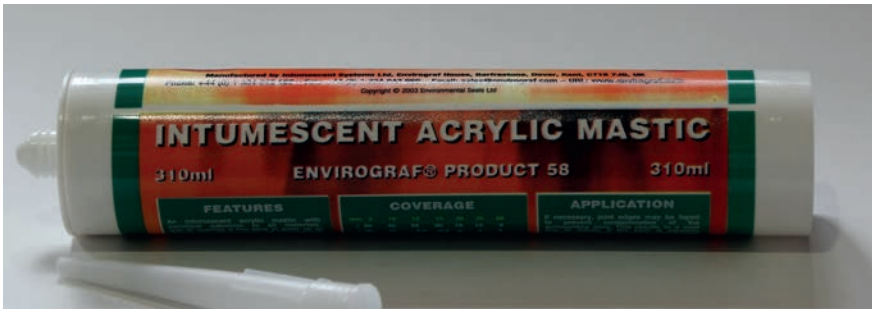
Order References

IA	IA intumescent Adhesive

310ml tube	½ litre	1 litre	2½ litres	5 litres

INTUMESCENT ACRYLIC AND ACOUSTIC MASTIC

PRODUCT 58



A powerful, fire resistant filler and sealant which provides a permanent flexible seal against fire, smoke and toxic fumes.

Application Information

A minimum of 12mm depth is required around ceiling, floor and wall joints in computer areas. This prevents Halon gas escaping.
All surfaces should be sound and clean. Oily surfaces should be wiped with white spirit and then dried.
Dry, dusty brickwork must be moistened prior to application of Envirograf Intumescent Mastic, using a normal skeleton gun. Extrude the mastic firmly against the sides of the joint, ensuring firm contact. Can be painted over only after surface skin has formed.

Performance

Tested to BS476 Parts 20, 21 & 22 (1987), achieving integrity ratings of up to 249min. Tested to European Standard EN1363-1 (2000), achieving 126 minutes protection.

Advantages

– For use as a seal between door frames and walls, around edges of partitions, or in voids around services such as pipes- Can be used in conjunction with Envirograf Intumescent Slabs (Products 4 and 5), Blocks (Products 2 and 3) and Expansion Joints (Products 39 and 40) to provide a robust penetration seal
– Can be painted over for decorative purposes
– Standard mastic tube can be used with any normal skeleton gun.

Order References

AM	310ml	Coloured
AM	310ml	White

Available in standard colours: Brown, Grey, Black and White.

SILICONE SEALANT

PRODUCT 62

An odourless, ready-to-use, flexible, halogen-free Silicone sealant, which reacts with atmospheric moisture to form a durable, flexible seal.

Application Information

High performance sealant for most glazing, sealing, bonding, repairing tasks. For use at joints between many building elements and materials giving a water and gas tight seal. Supplied in 310ml tubes, available in Black, White, Brown, Grey, Clear and suitable for alkaline substrates such as concrete, mortar and fibre cement.
Tack Free Time at 23ºC/50% relative humidity: 120 Minutes
Skin Forming Time at 23ºC/50% relative humidity: 15-30 Minutes

Order References

SIL 310ml Clear, Black, Grey, White, Brown
Please state clearly on your order which colour option you require.

Advantages

– A high-performance sealant, ideal for most glazing, sealing, bonding or repairing tasks
– Neutral curing system – practically odourless
– Non-corrosive to metals
– WIll adhere to most substrates without the need for priming

Performance

Tested to BS476 Parts 20, 21 & 22 (1987) when used for sealing around a number of penetrations and expansion joints. Integrity ratings of up to 240 minutes were achieved.

Not for use on boilers, hot flues, or stoves. See Product 115 for self-adhesive silicone tape for sealing gaps around boiler plates, heating flues, and pipe joints. (Can be used on log stoves in areas where there are no flames)

ACCESS PANELS

Pre-drilled fixing holes

SERVICE INSPECTION HATCH

PRODUCT 148

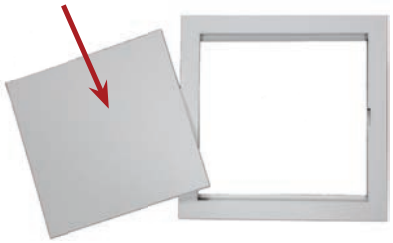
Intumescent material

On Dwellings that were built after 2000 where gas flues and other services are passing behind plaster board ducting through rooms to vent on outside walls, Gas and Building Regulations now require fire rated access panels in order to view the joints and the fixing of pipes.

Envirograf® have made a new fire proof Inspection Hatch with a clip door, which can easily be opened with a 2p or 10p coin. The hatch is fire insulated, with intumescent lining and smoke seals. The door can be removed, allowing for complete viewing of the ducting. To return the cover to the shut position, place the door into the slot and push cover to the shut position where the cover will then hold. The hatch can be fitted to walls and ceilings, either horizontally or vertically.

The unit has 1-2 hour fire protection according to BS476 Part 22 (1987).

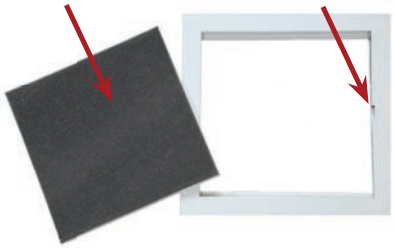
Fire protection material



ISL/GFH

Fire protection material and sponge insulation

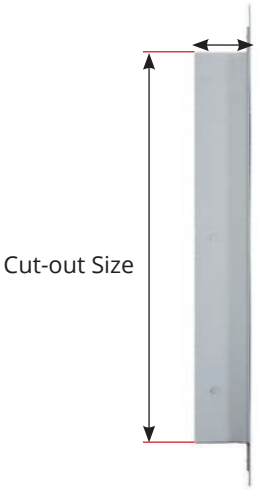
Coin opening slot



ISL/IGFH

Insulated version with U VALUE 0.27 W/m²K

Depth - 40mm



Please note that on all of our Inspection Hatches the depth is 40mm

Application Information

Use the Cut-out Size for a specific hatch to prepare the recess on the wall or ceiling. Then simply screw the hatch into the prepared opening, by using pre-drilled holes (2 holes on all 4 sides). All fixings are internal.

The hatch comes powder coated in white, and can be easily painted over with emulsion paint.

The hatch can be easily opened with a coin - simply insert the coin into the slot and lever the door open.

It is available in a standard sizes, lined with intumescent material, as well as an insulated sizes with 20mm foam fixed to the inner door.

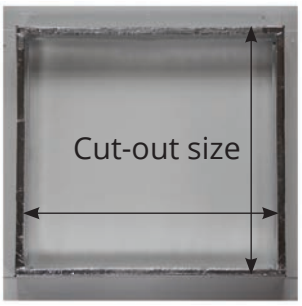
Ordering References

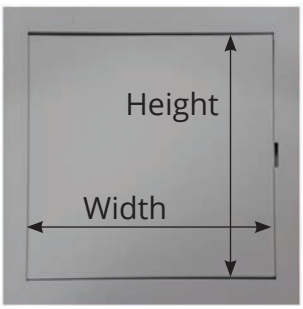
Standard sizes:	**(Shutter Door)**	**(Cut-out-size)**
ISL/GFH/10/10	75mm wide x 90mm high	100mm wide x 100mm high
ISL/GFH/20/125	175mm wide x 115mm high	200mm wide x 125mm high
ISL/GFH/20/20	175mm wide x 190mm high	200mm wide x 200mm high
ISL/GFH/30/30	275mm wide x 290mm high	300mm wide x 300mm high
ISL/GFH/40/40	370mm wide x 390mm high	400mm wide x 400mm high

FOR INSULATED VERSION ADD I to the product code

FOR CEILING APPLICATIONS WE CAN SUPPLY HINGED VERSION, ADD H

Standard colour White, most RAL colours available.
The unit can be painted over to match your existing paintwork.
The old model click-lock hatch is still available - please specify when ordering.

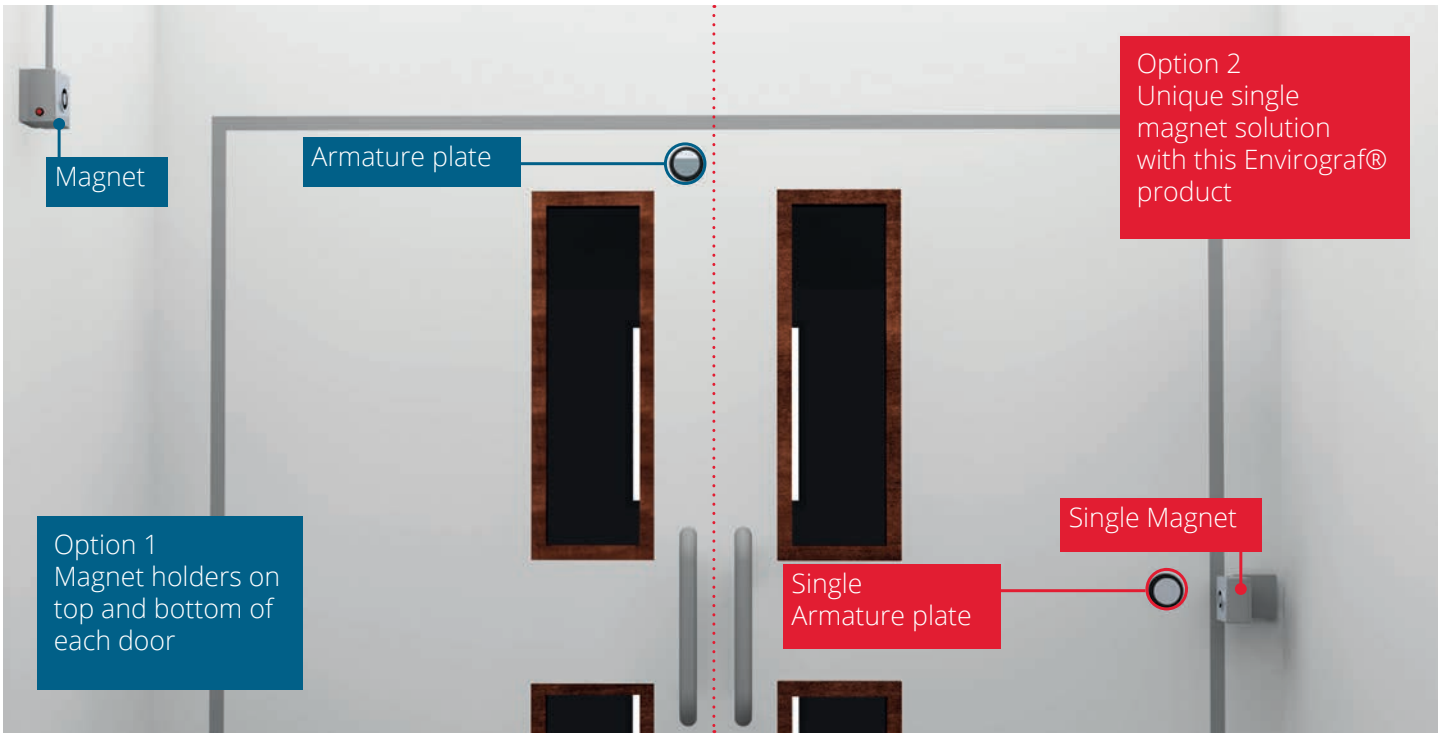


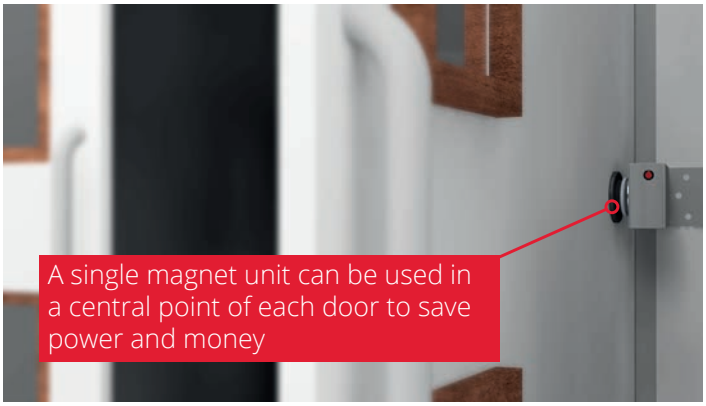


Shutter Door

MAGNETIC TIMED DOOR HOLDER

PRODUCT 43





The Magnetic Timed Door System has a master control unit, (240volts supply in, and 24volt out), wired to the 24volt magnet. Once the armature plate is fitted to the door and comes in a contact with the magnet, it is held open for a maximum of 57 seconds. This time can be reduced in the master unit. Once it reaches the time set the magnet de-energises releasing the door to close. All cables from master unit can be in flex.

As the photo shows, the magnet and armature can be fitted at high level or at the middle of the back heal of the door frame.
Bracket for back heal of door frame Ref: ES/MD/HB.
A longer bracket for wall at high level, state length Ref: ES/MD/LB.

Envirograf® magnets & plates can be purchased separately.
240volt to wire into 240 smoke detector or 240volt door hold system Ref: MH240

24Volt magnet & armature to wire into a fire alarm system Ref: MH24
Should, however the existing fire alarm system is not capable of the extra loading a 240volt control box with 24volt output to take up to 20 magnets, this also has a normally open or normally closed contact to wire into existing fire alarm system Ref: CTJ.

Electromagnetic timed door hold which operates independently of the existing fire alarm system. Holds doors open for up to 57 seconds, preventing loss of energy and heat, as agreed by Moreton in the Marsh Fire Prevention Dept.

Advantages

– Works in conjunction with existing door closer, holding single doors or pairs of doors open magnetically- Prevents buckling and distortion to the door – a common problem with permanent door holding systems
– Ideal for hospitals, residential homes, offices, computer suites, hotels and warehouses
– Can also be configured to hold doors open until someone has passed through them – ideal for the blind or visually impaired

Canterbury Hospital, Kent

SOLUTIONS IN CASE THERE IS NO SIDE WALL TO ATTACH THE MAGNET

LONG ARM SOLUTION

Master Control Unit

SHORT ARM SOLUTION

FIRE AND SMOKE DROP CURTAIN (AUTO/MANUAL RESET)

PRODUCT 90

WINDOW PROTECTION FOR ESCAPE ROUTE

A fire and smoke protection curtain made of impregnated silicon cloth, complete with a control panel which can either be wired into an existing fire alarm system or detector circuit operated independently with a heat or smoke detector. Designed to close automatically in the event of a fire, sealing off the area. A battery backup system is supplied to operate the system in case of electrical failure.

Advantages

– Provides a fire and smoke barrier which gives up to 80 minutes fire protection
– Made to order, meeting all size requirements in either surface-mounted or recessed varieties
– Made of non-fibrous material, ideal for use in sterile areas
– Available in two styles to suit openings from 450mm to 3800mm across
– Ideal for industrial or domestic use, such as counters, conveyor belts, reception areas, etc.
– The impregnated silicon cloth curtain can be easily cleaned with a damp cloth which can either be wired into an existing fire alarm system or smoke detector circuit or operate independently with a heat or smoke detector. Designed to close automatically in the event of a fire, sealing off the area. A battery backup system can be supplied to operate the system in case of electrical failure. The frame is powder-coated white as standard, but it can be coloured if required.

OVER DOOR DROP CURTAIN

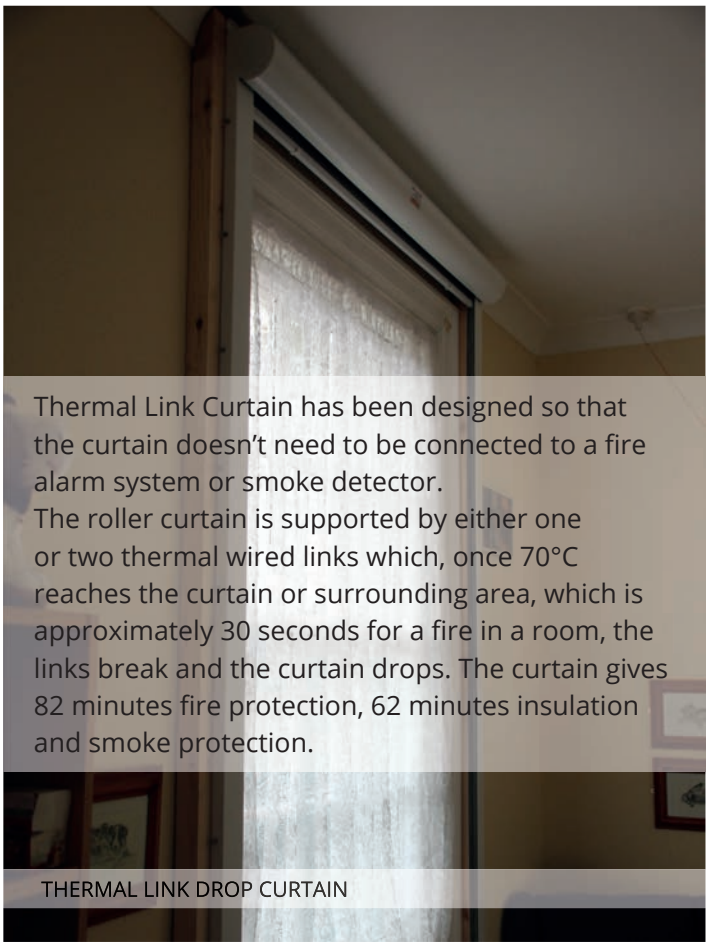
Application Information

Due to the bespoke nature of this product, fitting instructions will vary.

Please contact our technical team for any further enquiries relating to the application or specification of this product.

NEW THERMAL LINK OPTION NOW AVAILABLE
NO NEED TO CONNECT TO THE FIRE ALARM SYSTEM

DROP CURTAIN INSTALLED AT KILWORTH HOTEL



Thermal Link Curtain has been designed so that the curtain doesn't need to be connected to a fire alarm system or smoke detector.
The roller curtain is supported by either one or two thermal wired links which, once 70°C reaches the curtain or surrounding area, which is approximately 30 seconds for a fire in a room, the links break and the curtain drops. The curtain gives 82 minutes fire protection, 62 minutes insulation and smoke protection.

THERMAL LINK DROP CURTAIN

CONVEYOR BELT DROP CURTAIN

DROP CURTAIN AT RECEPTION AREA

Ordering References

Product is made to order.

Lead times available on request.

Performance

Tested to BS476 Part 22 (1987), achieving 66 minutes of fire protection.

Regional Office / Representative

We're proud members of:

FPA Fire Protection Association MEMBER 2016

THE BRITISH FIRE CONSORTIUM

AFFILIATED TO IFPO ENITI AD DEFENDERE

REGISTERED MEMBER ECA

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ISO 9001 QUALITY ASSURANCE