



Housebuilders

Passive Fire Protection Solutions

Passive Fire Protection for housebuilders.

Passive Fire Protection measures are equally important in low to medium rise dwelling houses, such as semi-detached homes, terraced houses, townhouses and apartments as they are in multi-storey developments.

The risk of fire spread exists when electrical and mechanical services are installed through walls, ceilings and floors or an open path within concealed cavities is left unprotected. This can result in a serious reduction in the fire resistance rating and the ability of the structure to limit and resist fire spread.

Tenmat offer a range of solutions to assist Housebuilders to address these issues and to meet the requirements of Building Regulations Approved Document B where it is stated that:

“The performance of a fire-separating element should not be impaired. Every joint, imperfect fit and opening for services should be sealed.”

“Cavities in the construction of a building provide a ready route for the spread of smoke and flame, which can present a greater danger as any spread is concealed.”

“Cavity barriers should be provided at... the junction between an external cavity wall and every compartment floor and compartment wall”.

And

Compartment walls between buildings should:

“Meet the underside of the roof covering or deck, with fire-stopping to maintain the continuity of fire resistance”

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CavGuard Roll 65

 **Tenmat**

CavGuard Roll 65

3rd Party Fire Tested for 30 and 60
Minute Applications.

Contact Tenmat.com for more info
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CAVITY FIRE BARRIER SYSTEM - DO NOT REMOVE

Product Description



Tenmat's CavGuard Roll 65 is a cavity fire barrier designed to firestop the cavity behind external walls consisting of outer substrates of masonry or brickwork. The low smoke zero halogen highly expansive intumescent material allows ventilation to be maintained in non-fire conditions.

The CavGuard Roll 65 is made from a flexible intumescent material allowing it to be provided in a roll format. With a thickness of only 6mm, the low profile design offers significant space and labour saving over traditional cavity socks, whilst also ensuring the external cavity is left unobstructed and free to ventilate. It is also covered with a protective layer of polythene for ease of handling and to protect it from water.

In the event of a fire the CavGuard Roll 65's intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation for 60 minutes depending upon the construction of the external wall cavity. The CavGuard Roll 65 is designed to close off a total cavity of 65mm which allows for building tolerances of up to 15mm (above the typical maximum cavity ventilation requirements of 50mm).

Product Details

Technical

- A fire rated product, providing fire resistance performance within external wall cavities, for periods up to 60 minutes
- Suitable for masonry and brickwork external substrates only
- Ventilated design – developed to allow maximum ventilation of uninsulated cavities reducing the need for cavity trays or weepholes.
- Suitable for ventilated cavities up to 65mm wide, including building tolerances of up to 15mm (50mm + 15mm)
- Provided in rolls of 6.3m long

Installation and maintenance

- Flexible and lightweight - designed to be easily and quickly installed
- No maintenance required after installation

Dimensions

6mm x 75mm x 6,300mm

FF102/50

Product Description



Tenmat's FF102/50, Ventilated Cavity Fire Barriers, are manufactured from a low smoke zero halogen high expansion intumescent material. They are designed to reinstate fire resisting performance to external wall cavities that are required to be ventilated (open-state) in non-fire conditions.

The FF102/50 is manufactured from a rigid intumescent material allowing it to be provided in a strip format, it is also covered with a protective layer of aluminium foil for ease of handling.

In the event of a fire the FF102/50 intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation for up to 120 minutes depending upon the construction of the external walls.

The FF102/50 is designed for use within cavities of up to 50mm and once installed will close the remaining free air gap in front of the 6mm cavity barrier of up to a maximum of 44mm (depending on construction type).

Product Details

- An "open state" cavity fire barrier for use horizontally within uninsulated, ventilated and drained cavities
- Fire Rated for up to 120 minutes for both integrity and insulation when tested to the general principles of BS EN 1363-1 following ASFP TGD 19 guidance
- Ventilated design – developed to allow maximum ventilation and drainage of cavities reducing the need for cavity trays or weepholes
- Suitable for "open-state" ventilated cavities up to 50mm wide
- Provided in strips of 1m long, 75mm wide and 6mm thick
- Lightweight - designed to be easily and quickly installed
- No maintenance required after installation

Sizes

6mm (thick) x 75mm (wide) x 1000mm (long)

Roof & Ridge Tile FireStop

Product Description



Tenmat's RTF and RRF Roof Tile/Ridge Fire Stops are manufactured from low smoke zero halogen intumescent material and are designed to provide fire resisting performance between roof/ridge tiles and the party walls or spandrel panels below the roof covering, which separate different properties within roof spaces or provide lines of compartmentation.

The RTF and RRF are manufactured from a flexible highly intumescent material allowing it to be provided in a roll format, they are also covered with a protective layer of polythene for ease of handling and to protect from water. In the event of a fire the RTF and RRF intumescent material will expand to close the gap between the top of the wall/spandrel panel and the roof/ridge tiles, whilst also separating the roof batten and ridge tile timbers, providing effective fire resistance for 60 minutes, depending upon the non-combustibility of the roof covering (tiles) and the construction of the compartment/party wall.

Product Details

Technical

- A fire rated product, providing fire resistance performance up to 60 minutes
- Ideal for multi-home compartments/shared roof space buildings
- Fire resistance test utilising the general principles of BS EN 1363-1:2020 with additional guidelines from TDG 19: (Nov 2017)
- Use category X, tested to ETAG 026-2, suitable for use in conditions of exposed weathering
- Suitable for a maximum tested under-tile to head of wall gap of 96mm
- Suitable for masonry walls and spandrel panels (stud wall construction), tested in conjunction with combustible breather membrane, timber battens and mechanical fixed ridge tiles (dry method no mortar)
- Low profile design to ensure no interference with wide range of tile fit/profiles
- Patent pending design

Installation and maintenance

- Flexible and lightweight - designed to be easily and quickly installed with no special tools required
- Compact design - 6.3m roll, easy for storage and handling
- Compatible with new and refurb solutions
- No maintenance required after installation

Sizes

RTF 6.3m roll with 6mm thick x 100mm wide base & 4mm thick x 25mm high upstand.

RRF 200mm long x 100mm wide x 4mm thick, 150mm long x 100mm wide x 4mm thick and 25mm deep x 50mm long x 4mm thick ridge protector.

Downlight Fire Hood



Product Description



Tenmat's Downlight Fire Hoods are manufactured from halogen free intumescent material and are designed to reinstate the fire and acoustic performance of ceilings and/or floor constructions when penetrated by downlighters.

The DFH is made from an intumescent flexible mineral wool material allowing it to be retro-fitted through the hole cut into the ceiling membrane, before springing back into shape to cover the light fitting, whilst allowing enough space between the hood and the light fitting to allow for normal operation of the light fitting.

The DFH also includes small ventilation holes, which allows hotter operating downlighters to ventilate, a small pre-cut hole for the light fitting cable to pass through and a steel clip to hold the hood in place.

In the event of a fire the DFH intumescent material will expand to enclose the ceiling cutout, cable and ventholes, providing effective fire resistance for integrity and insulation for 30, 60 or 120 minutes depending upon the ceiling and floor joist construction, even if the downlight is removed and replaced.

Product Details

Technical

- A fire rated product, reinstating ceiling fire protection up to 120 minutes
- Tested for minimal acoustic noise transfer, ideal for multi-home buildings
- Ventilated design – developed to reduce heat build-up within the Firehood
- Suitable for halogen and LED's

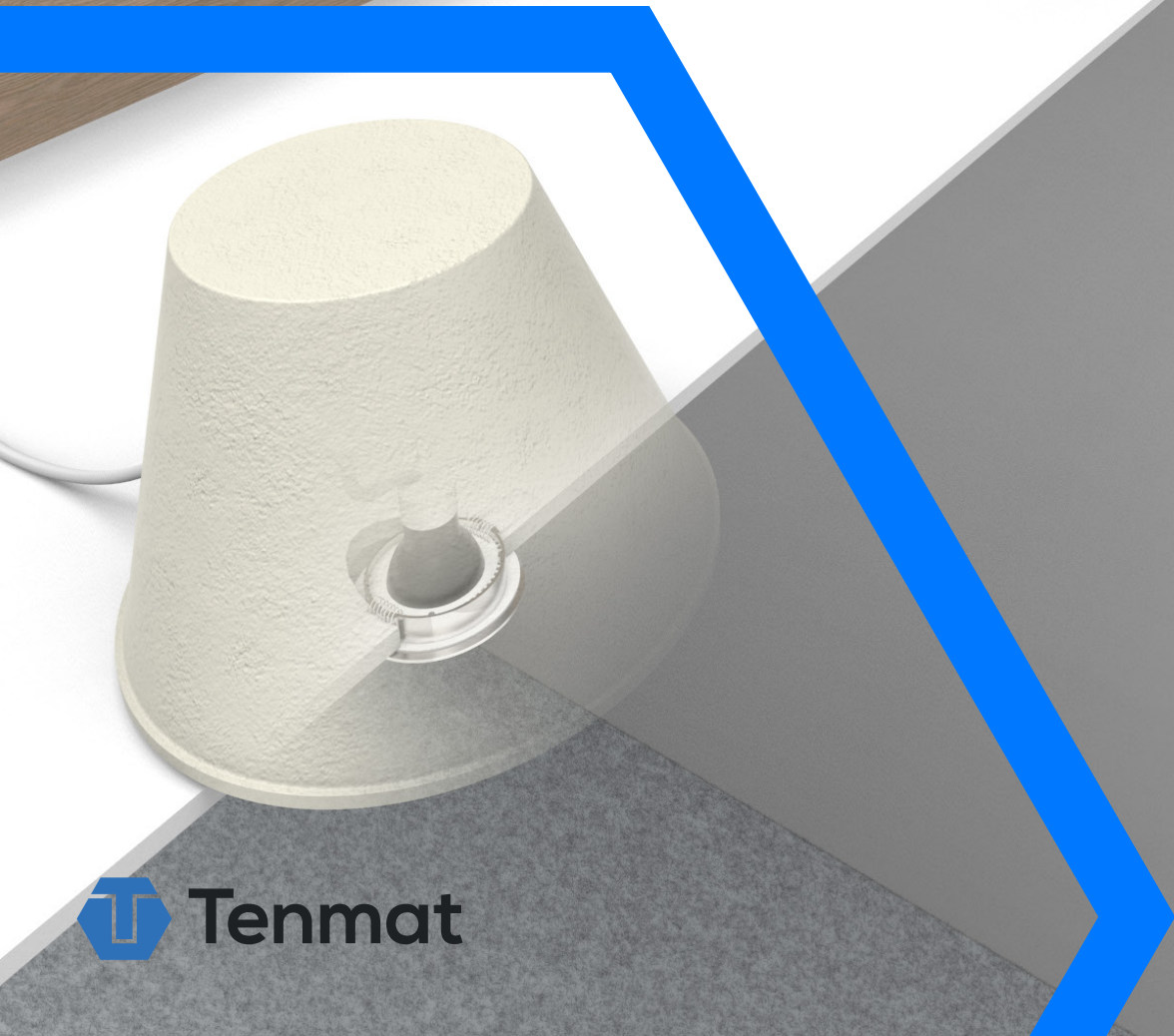
Installation and maintenance

- Flexible and lightweight – designed to be easily and quickly installed from below ceilings with no special tools required
- Compatible with new and retrofit solutions – does not need to be removed when changing light fittings
- No maintenance required after installation

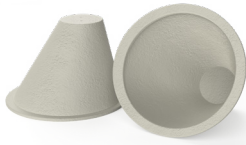
Sizes

Available in 3 sizes:
150 x 150 mm, 200 x 200 mm, 250 x 250 mm

Loft Cover



Product Description



The most recent fire safety requirements call for recessed spotlights to be protected from contact with all kinds of insulation and other combustibles. To meet these requirements, Tenmat has developed the FF130 Loft Covers. Thermal insulation must be installed to ever increasing thicknesses and recessed downlights become completely buried. It is no longer acceptable to install insulation without protecting downlights.

The Tenmat FF130 Loft Covers are specifically designed to ensure a fire safe installation for a wide range of downlighters and enable loose or rolled insulation to be installed safely over the position of downlighters, meeting CITB guidance for correct installation of loft insulation.

Product Details

- Meets CITB Guidance
- F-Capped Rated
- Heat Build Up tested to BS EN 60598-1/BS EN 60598-2
- IP6X Dust Tight
- Suitable for both Halogen or LED light fittings
- Angled profile of FF130 Loft Cover allows the cover to be positioned close to angled roof timbers
- Designed for single light fittings only, transformers must be located above insulation (on ceiling joists or roof timbers) or on a non-combustible plate
- Can be covered with loose/blown or rolled insulation

Sizes

Nominal Height	- 160mm
Nominal Diameter (top)	- 85mm
Nominal Diameter (base)	- 250mm

Vent Duct Fire Sleeve (Low Profile)



Product Description



The FF109 Vent Duct Fire Sleeve Low Profiles (VDS LPs) are a family of CE Marked fire penetration seals designed to firestop PVC ventilation ducts/ pipes when installed through fire rated constructions.

The unique vacuum formed intumescent material design ensures that the expansion direction of the material crushes and seals the ducting in a fire situation without the need for any additional support or metal sleeving.

The lack of metal sleeving, not only makes installation easy, it also limits the risk of heat transfer through the structure as well as allowing compression to ensure a tight seal against fire and smoke or tight fitting against the ceiling soffit where needed.

The Fire Sleeves provide fire resistance ratings for Integrity (E) and Insulation (I) for up to EI120 minutes depending on the construction.

Fire Tested for both internal and external wall constructions. The Fire Sleeves are CE Marked with a European Technical Approval (ETA) based on extensive fire testing to BS EN 1366-3.

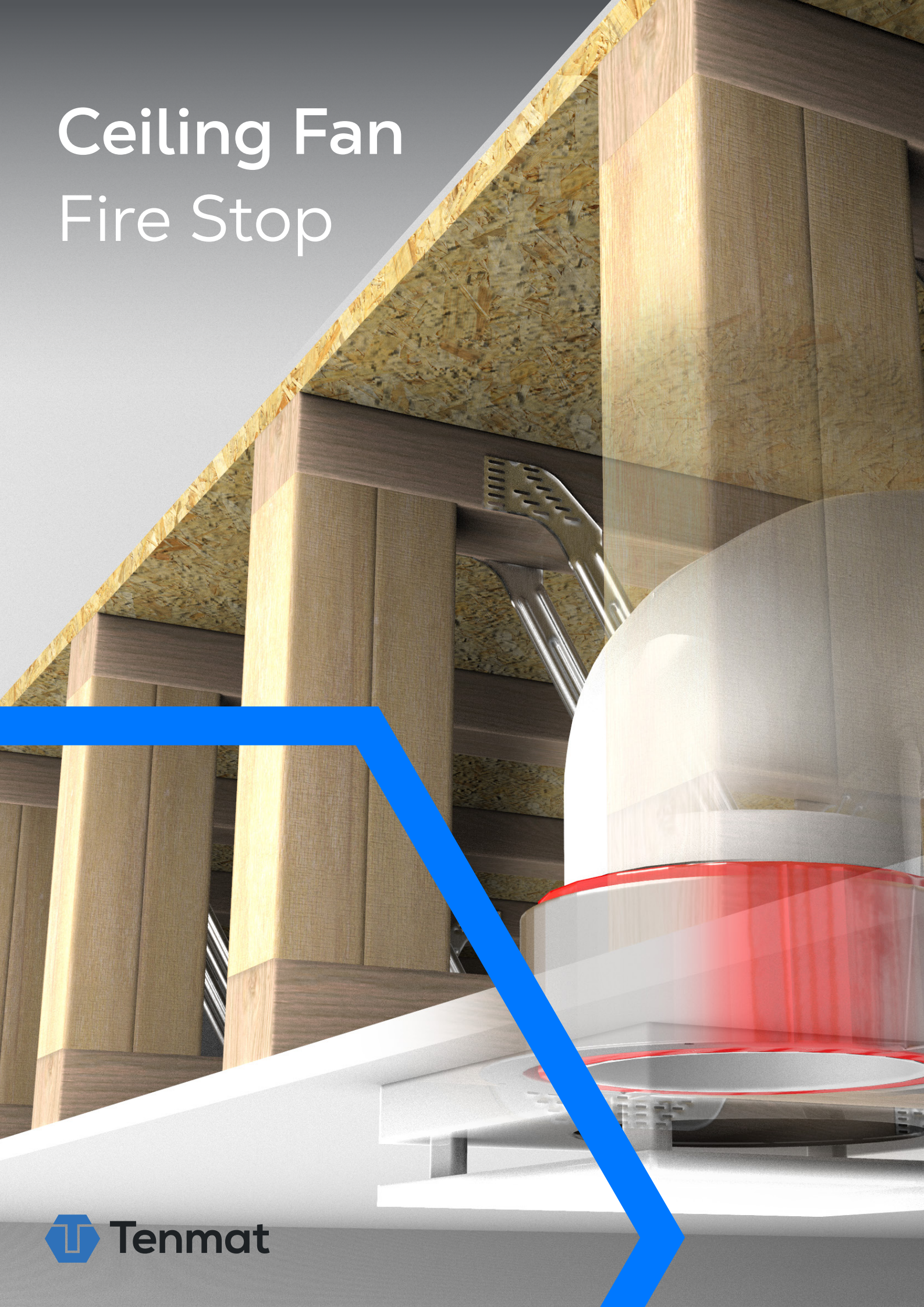
Product Details

- Fire rated product up to EI 120 minutes
- Tested for masonry, concrete and plasterboard walls
- Tested in external wall / SFS constructions
- Can be installed within Ablative Coated Fire Batts
- CE Marked
- U/U - Uncapped/Uncapped tested as required for ventilated systems
- Can be retro fitted
- Low profile design
- Available preformed and ready to install in both circular or rectangular shapes
- Compressible material, offers accommodation for deflection
- No metal sleeving or boxing out required

Sizes

Duct Size	Nominal Thickness	Nominal External Width / Diameter	Nominal External Height	Length
110x54mm	10-15mm	134mm	83mm	180mm
204x60mm	10-15mm	228mm	89mm	180mm
204x60mm	10-15mm	228mm	89mm	360mm
220x90mm	10-15mm	244mm	124mm	180mm
220x90mm	10-15mm	244mm	124mm	360mm
100mm (103mm)	15mm	244mm	-	180mm
125mm (127mm)	15mm	160mm	-	280mm
150mm (155mm)	20mm	200mm	-	280mm

Ceiling Fan Fire Stop



Product Description



The Tenmat Ceiling Fan Firestop has been developed to provide fire protection for penetrations made in floor/ceiling systems for 100mm and 125mm ceiling fans.

In a fire situation, the intumescent lining in the product expands to seal off the opening in the ceiling and creates an effective fire barrier and therefore reinstates the fire rating of the ceiling.

Recessed ceiling fans are widely used in both domestic and commercial buildings. Once a hole is made in the ceiling for a fan, the integrity of the construction and its ability to perform in a fire is reduced significantly.

The penetration must be fire stopped in order to reinstates the original fire rating of the ceiling/floor construction as required within Building Regulations.

The Ceiling Fan Firestop incorporates a steel mounting ring with integral intumescent lining and duct connector which is fixed into the ceiling lining and allows the ceiling fan to be installed as normal.

Please check with Tenmat for compatibility with different Ceiling Fan Types.

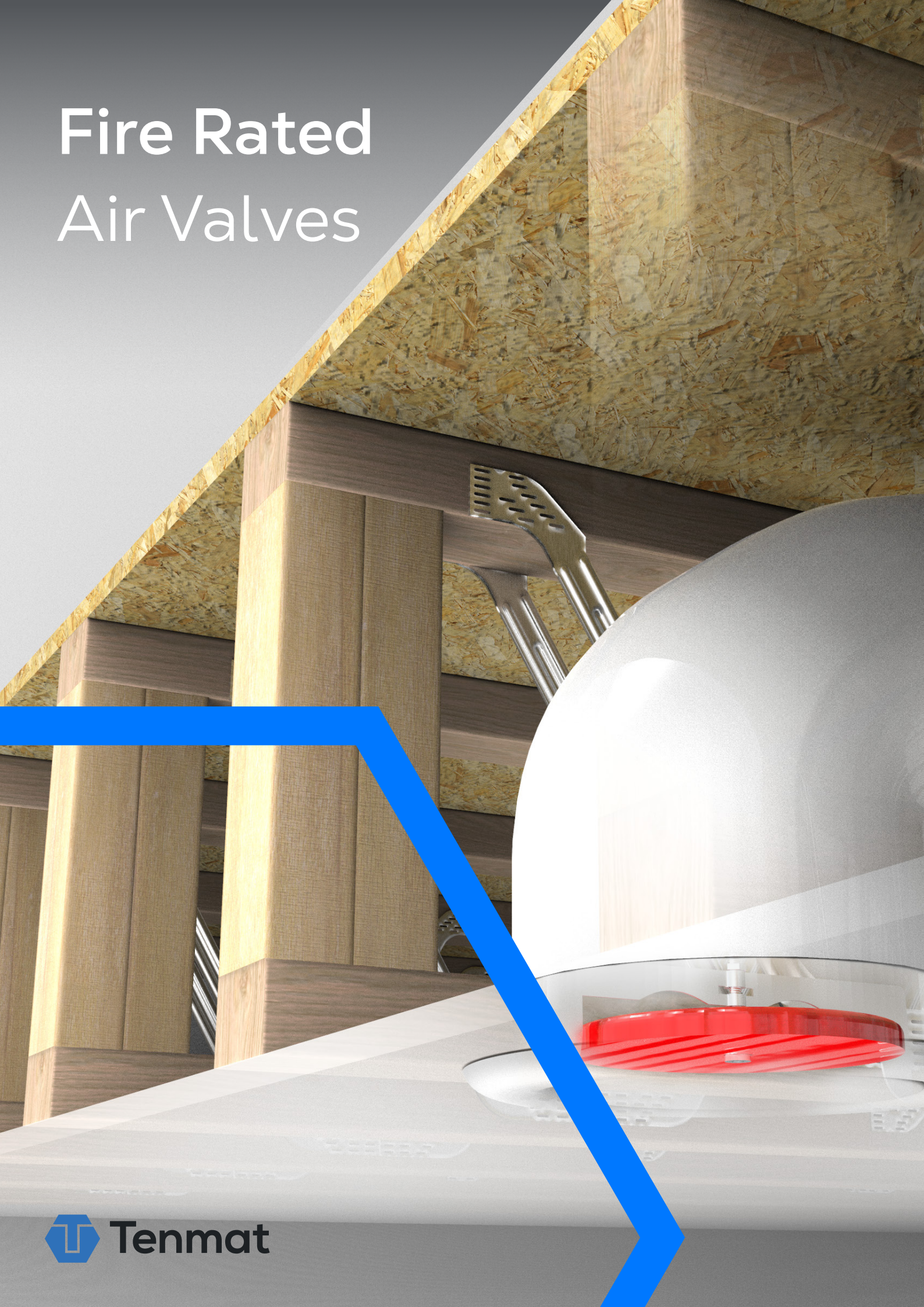
Product Details

- Fire Protection solution for 100mm & 125mm Ceiling Fans
- Full Scale Fire Tested in accordance with BS EN 1365-2 on a loaded timber floor
- 30 minute fire rating
- Test evidence for use in Solid Timber, Metal Web Joist and Engineered I-Beam Floor/Ceiling Systems

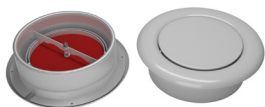
Sizes

100mm and 125mm diameter.

Fire Rated Air Valves



Product Description



Tenmat's Fire Rated Air Valves are a unique and cost effective fire rated solution where recessed ceiling air valves are to be installed in fire rated floor/ceiling constructions. In a fire situation, the integral intumescent material rapidly expands to seal off the air valve to help maintain the fire resistance rating of the ceiling. This limits the risk of fire and heat spread throughout the building.

The Fire Rated Air Valves are available in all common sizes for both Extract and Supply. The Fire Rated Air Valve is installed as normal with air flow through the air valve unaffected. The product requires no maintenance after installation. The Fire Rated Air Valves suitable for domestic homes, as well as apartments, hotels and other multiple occupancy buildings where fire ratings exist.

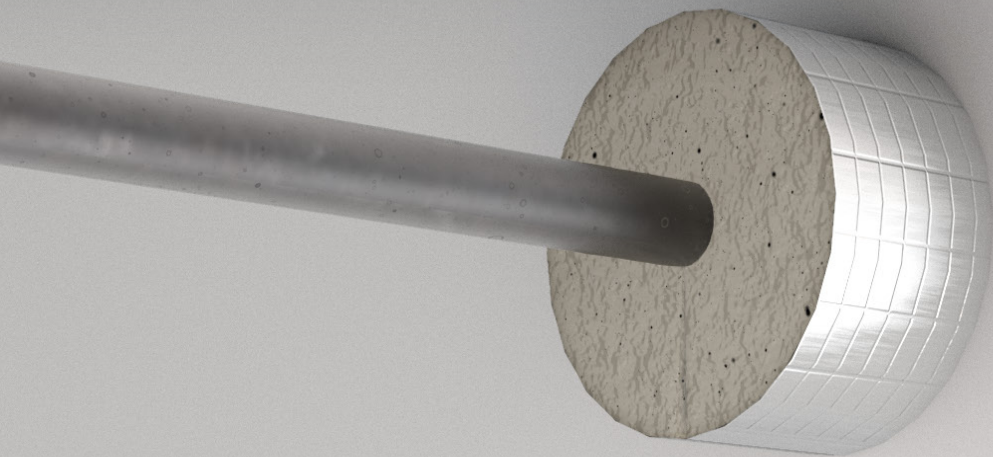
Product Details

- Extract and Supply versions
- 60 Minutes Fire Rating in Solid Timber Joist Floor/Ceilings Constructions
- 30 Minutes Fire Rating in Metal Web Joist and I-Beam Timber Joist Floor/Ceiling Constructions
- No maintenance required
- Meets requirements of Approved Document B
- Simple to install

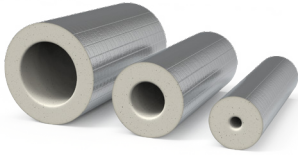
Sizes

Extract (Diameter)	Supply (diameter)
80mm	80mm
100mm	100mm
125mm	125mm
150mm	150mm
200mm	200mm

Pipe Fire Sleeve



Product Description



The FF109 Pipe Fire Sleeves (PFS) are a range of passive fire protection penetration seals designed to firestop both metal and plastic pipes.

The Fire Sleeves offer Fire, Acoustic, Thermal and Vapour seal performance to a range of pipes passing through various wall or floor constructions.

The CE Marked range are fire tested in accordance with EN 1366-3 with additional testing and assessments to BS 476 Part 20.

The FF109 Pipe Fire Sleeves (PFS) are manufactured from a unique, low smoke, zero halogen intumescent material. The Fire Sleeves are supplied pre-formed and ready to install to suit a variety of pipe diameters.

With a nominal thickness of 25mm, the compressible intumescent sleeve is supplied wrapped in a reinforced aluminium foil allowing it to be cut down its length and retro-fitted around the pipes. This provides an effective fire, smoke and acoustic seal whilst also allowing for some thermal movement. Fire Ratings of EI30, EI60, EI90, EI120 or even up to EI240 minutes are offered depending on the construction type.

Product Details

- CE Marked
- 4-in-1 Solution - Fire, Acoustic, Thermal and Vapour Seal
- Up to EI120 Minutes Fire Rating in Gypsum Walls and Solid Floors
- Up to EI240 Minutes Fire Rated in Solid Walls
- Suitable for both Metal and Plastic Pipes
- Assessed for use in Ablative Coated Mineral Wool Boards/ Batts
- Simple & quick to install, no fixings or sleeving required
- Available to suit pipe diameters of 15mm to 169mm
- 1 length of Fire Sleeve can replace two fire collars
- Lubrizol Approved
- FBC™ System Compatible

Sizes

Nominal Thickness of Sleeve - 25mm
Internal Diameters ranging from 17mm to 169mm
Standard Fire Sleeve Length - 300mm

Socket Box Inserts



Product Description



Tenmat's SBI, Socket Box Inserts, are manufactured from halogen free, low smoke, fire resistant, mineral fibre material and are designed to maintain the fire performance of partition (stud) wall constructions when penetrated by steel or plastic electrical socket back boxes. The insert will also provide resistance to the passage of sound (db) and air movement.

In the event of a fire the SBI mineral fibre material will prevent the fire passing through the electrical back box aperture, providing effective fire resistance, for integrity (E) and insulation (I) for 60 or 120 minutes (EI60 or EI120) depending upon the partition (stud) wall construction.

Product Details

Technical

- BS and EN Fire Tested
- A fire rated product, reinstating partition (stud) wall fire protection up to EI120
- Tested for minimal acoustic noise transfer and air tightness / movement
- Suitable and tested with both plastic pattrss boxes and metal back boxes
- Available for single and double sockets
- 35mm and 47mm Depths available

Installation and maintenance

- Pre-formed for easy installation – can be installed in seconds without assembly or adhesives.
- No maintenance – insert should not move or become damaged if the socket is replaced, if fitted correctly.
- Mess free installation – no need for adhesives, screws or drilling
- Can be retrofitted to existing socket boxes

Sizes

Available for both single or double socket back boxes, to suit back-boxes of the following dimensions:

- Single (shallow) Box Insert - Width 70mm x Height 70mm x Depth 35mm
- Single (deep) Box Insert - Width 70mm x Height 70mm x Depth 47mm
- Double (shallow) Box - Width 140mm x Height 70mm x Depth 35mm
- Double (deep) Box - Width 140mm x Height 70mm x Depth 47mm

SBI-Switch Box Insert nominal, Insert thickness 3.5mm

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