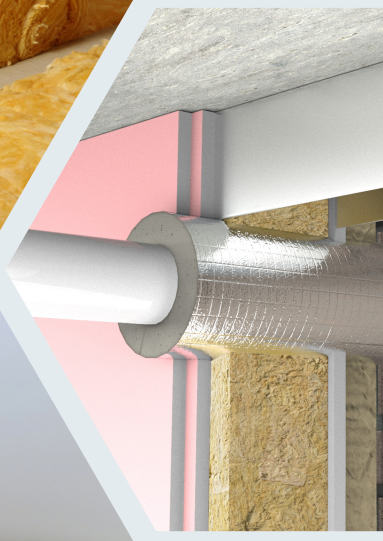

Tenmat

Energy Saving Solutions

Combined Energy saving and fire protection products for home insulation upgrades.

Passive Fire Protection

Leaders in **innovation.**

Energy saving and fire protection are often seen as separate components when home insulation is being upgraded, however both of these outcomes can be achieved with a range of specifically designed and tested products from Tenmat.

Tenmat's range of combined Energy saving and fire protection products allow the requirements of Building Regulations Approved document B to be fulfilled and help to meet the requirements of Approved Document L with a range of simple to fit and fully tested products. Additional requirements of the CITB insulation installation, NHBC water vapour transmission can also be met.

How do the products save energy?

Energy losses generally occur due to thermal conduction or air leakage, all of the Tenmat Energy and fire product range will dramatically reduce one or both of these losses.

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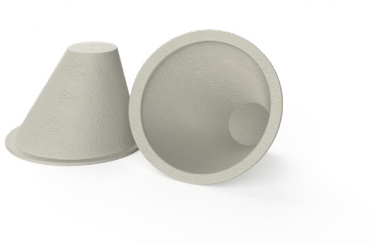
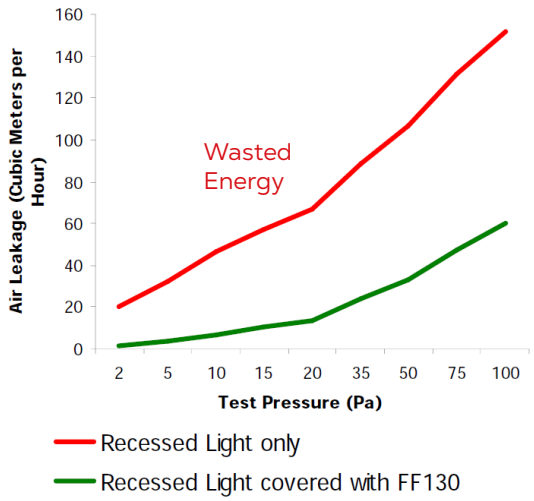
FF130 Loft Covers

If unprotected, downlights which penetrate a loft space, provide a ready passage for the leakage of warm air from the living space, they act like “warm air chimneys” robbing rooms of heat and allowing cold air to flow from the loft space into the room.

The FF130 loft covers have been fully tested to reduce the passage of air compared to an unprotected downlight by up to 94% offering significant savings and improving the living environment.





When downlights penetrate a loft space, then they can allow moisture ladened air to enter the loft space which can cause premature rotting of roof timbers, Tenmat FF130 loft covers meet the full requirements of the NHBC vapour transmission by minimising the passage of water vapour.

In addition to the energy saving benefits, the fitting of Tenmat FF130 loft covers have also been proven to allow LED downlights to operate at more consistent temperuraturess which both increases light output and lamp life.

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.

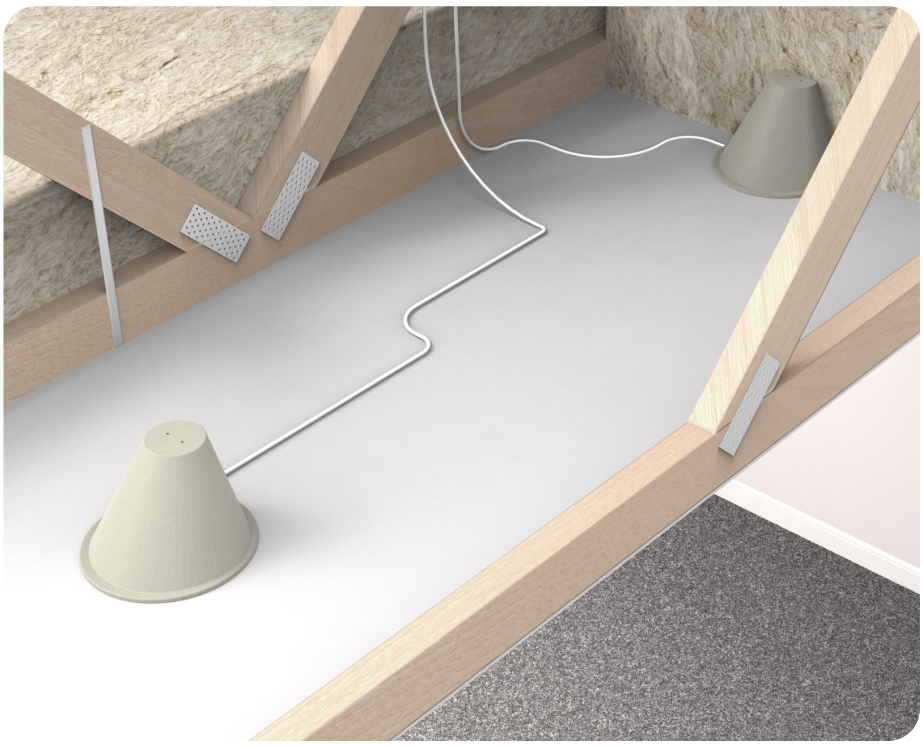
FF130 Loft Covers
Product Details

Technical

- Increases LED lamp life span and light output
- Meets CITB Guidance
- F-Capped Rated
- Heat Build Up tested to BS EN 60598-1/BS EN 60598-2 for all lamps up to 50W.
- 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



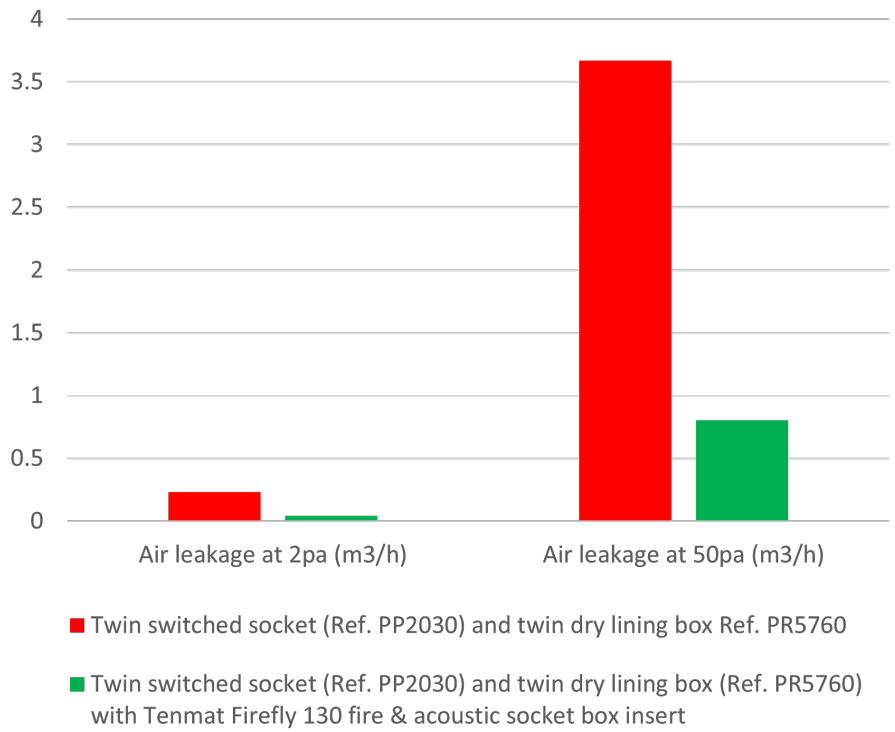
Switch Box Inserts

Modern houses have an ever increasing number of recessed fittings, per room, for power supply as well as data transfer.

Recessed switches, sockets and data points provide a ready passage for warm air to leak from a living space into a wall cavity and to be lost. The addition of Tenmat switch box inserts dramatically reduces the leakage of through these recessed fittings and so keeps the warmed air within the living area, saving energy and heating costs. Air leakage graph from TRADA data of air leakage with and without inserts.

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.



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Switch Box Inserts 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 pattress 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 backboxes of the following dimensions:

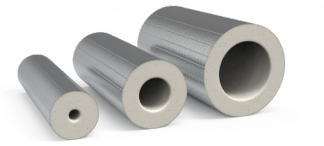
- Single (shallow) Box Insert - Width 70mm x Height 70mm x Depth 35mm
- Single (deep) Box Insert - Width 70mm x Height 70mm x Depth 47mm
- Double (shallow) Box - Width 140mm x Height 70mm x Depth 35mm
- Double (deep) Box - Width 140mm x Height 70mm x Depth 47mm
- SBI-Switch Box Insert nominal, Insert thickness 3.5mm

Pipe Fire Sleeve

Pipes passing from a living area through a wall can allow heat to be lost by both thermal conduction and air leakage. If the pipes are for hot water, then the uninsulated portion of the pipe will loose excessive heat from the water, meaning lost energy and increased water heating costs.

Tenmat Pipe Fire Sleeves are unique in that the combat losses due to air leakage and thermal conduction. The insulation value of the Pipe Fire sleeves is similar to that of mineral fibre insulation and therefore ensure that any insulation can be continuous through the wall, preventing thermal loss and allowing the full requirements of Approved document L to be met. The compressible nature of the Pipe Fire Sleeves ensures that any small hole defects are sealed when the sleeves are fitted as well as a tight seal around the pipe and unlike other pipe fire protection products the Pipe Fire Sleeves have been fully airtightness tested to ensure that any air leakage through the product is minimised.

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.

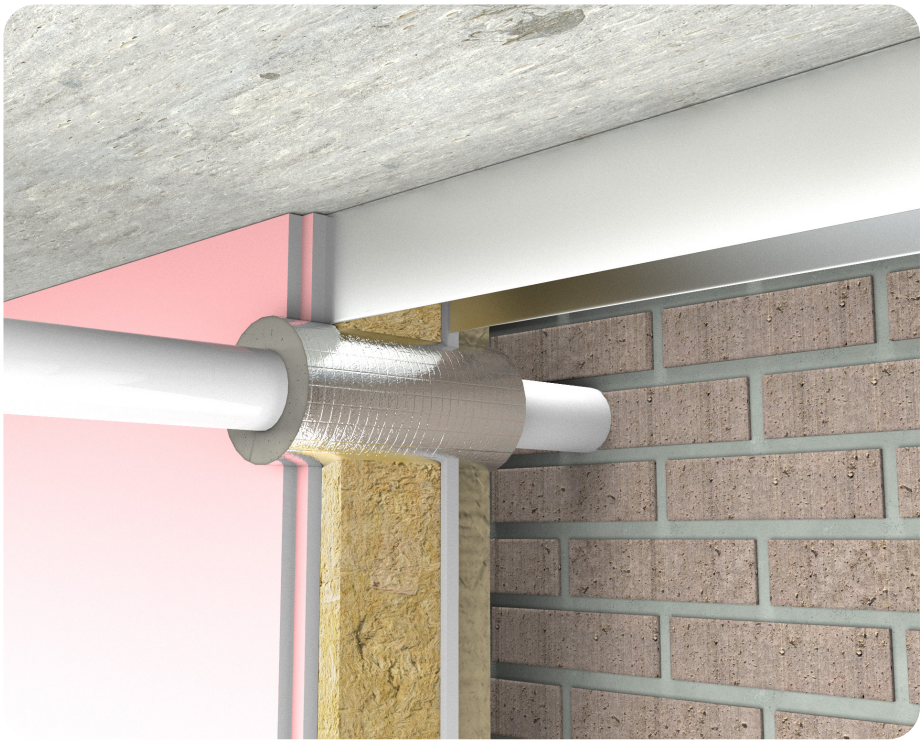
Pipe Fire Sleeves Product Details

Technical

- 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 fi re collars
- Lubrizol Approved
- FBC TM System Compatible

Sizes

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



Energy Efficiency Solutions

Passive Fire Protection

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