TENMAT is a leading manufacturer of unique, high performance intumescent materials and solutions with over 30 years of passive fire protection experience.

TENMAT manufacture innovative life safety products and we are committed to meeting our customers’ needs and exceeding the latest quality standards worldwide.

A Leading Manufacturer for the Construction Industry

TENMAT’s advanced passive fire protection materials are widely recognised as the industry standard for demanding applications within the construction industry.

Commitment to Quality

TENMAT operates an ISO 9001:2008 Quality Management System for the design, development and manufacture of specialised high performance engineering materials and components.
When electrical services are installed through compartment walls and floors, their integrity and ability to perform to the required fire and acoustic standards are significantly reduced.

Electrical penetrations, such as sockets, cable trays / baskets or cable conduits, must be fire stopped in order to reinstate the fire rating of the structure in which it is contained, and ensure that fire and smoke are unable to spread through the penetration.

TENMAT provides a range of fully tested Passive Fire Protection/Firestopping products for electrical service penetrations, offering a quick and simple way to maintain the fire and acoustic rating where electrical penetrations are involved.

**FF130 Socket Box Insert**  
Fire & Acoustic Rated pre-formed Inserts for socket protection  
Up to 120 minutes fire rating

**FF109 Socket Box Cover**  
Intumescent Covers for socket protection  
Up to 120 minutes fire rating

**FF108 Cable Basket Sleeve**  
Intumescent Sleeves for Cable Baskets and Trays  
Up to 120 minutes fire rating

**Firefly OverSleeve**  
Intumescent sleeve for cable bunch/conduit penetrations  
Up to 60 minutes fire rating

**Fire Stop Block**  
Alternative to fire pillows  
Can be cut to size  
Up to 120 minutes fire rating

**Test Data**  
Our products are fully acoustic and/or fire tested
FF130 Socket Insert

Key Features:
- 2 Hour Fire Rated
- Acoustically Rated to 67dB
- Air Leakage tested
- Made from Fire Resistant Fibre
- Ready to install; no moulding or trimming required

Internal walls create the required barriers to air leakage, fire and acoustic transmission. However, once a hole is made in the wall for a recessed switch or socket box, the ability of the wall to protect against air leakage, fire and acoustic transmission is significantly reduced.

To combat this, TENMAT has developed the Fire and Acoustic Rated FIREFLY 130 Socket Box Inserts. The FF130 Socket Box Inserts have been developed to improve air tightness and maintain fire and acoustic protection for penetrations created by the introduction of both single and double recessed socket boxes. The fire resistant mineral fibre Socket Box Insert limits the passage of fire and smoke through the wall.

Availability

<table>
<thead>
<tr>
<th>Name</th>
<th>Socket Type</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF130 Socket Box Inserts</td>
<td>Single</td>
<td>35mm, 47mm</td>
</tr>
<tr>
<td>FF130 Socket Box Inserts</td>
<td>Double</td>
<td>35mm, 47mm</td>
</tr>
</tbody>
</table>

Fitting Instructions

- Make small, tight fitting hole through Insert, ready for cable
- Pass cable through Insert and fit Insert into socket box
- Fit socket cover as normal. Screws can pass through Insert material
- The flange of the Insert should be hidden by the socket cover. Any rough edges can be trimmed

See page 10 for Fire Test Data or visit www.tenmat.com
FF109 Socket Box Covers

Key Features:
- 2 Hour Fire Rated
- Acoustically Rated to 67dB
- Can be fitted back to back in uninsulated walls
- Covers are pre-formed to fit the boxes
- Can be retrofitted
- No additional screws, drilling, or support required
- Covers fit in seconds

The TENMAT FIREFLY 109 Socket Box Covers are designed to be installed behind both single and double recessed switch/socket boxes. In a fire situation, the cover expands internally to fill all of the available space with a fire resistant highly insulating char. The fire is unable to penetrate the hole and the cover is able to give additional insulation protection to the wall void by reducing the chance of fire damage to flammable structural members.

### Availability

<table>
<thead>
<tr>
<th>Name</th>
<th>Socket Type</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF109 Socket Box Covers</td>
<td>Single</td>
<td>6 x 144 x 144 mm (EN Tested)</td>
</tr>
<tr>
<td>FF109 Socket Box Covers</td>
<td>Single</td>
<td>10 x 152 x 152 mm (BS Tested)</td>
</tr>
<tr>
<td>FF109 Socket Box Covers</td>
<td>Double</td>
<td>10 x 152 x 219 mm</td>
</tr>
</tbody>
</table>

### Fitting Instructions

- Push wire legs through holes in cover. Pierce the cover with a pencil and pass through cables.
- With the wire legs vertical, fold in the sides until the cover is a tight, flat rectangle
- Holding on to the wire legs, pass the cover through the socket/switch cut out, and allow to spring back into shape
- Pull the wire legs through the cut out, until the steps in the wire can locate on the face of the wall* - small notches can be made in the plasterboard to allow the wire to sit flush
- Cut away excess wire from legs. Fit box as normal

* In a wall with two layers of plasterboard on each face, the ends of the fixing wires can be pushed between the plasterboard layers

See page 10 for Fire Test Data or visit www.tenmat.com
The use of Cable Trays and Cable Baskets is on the increase as the amount of cabling within buildings continues to grow. Cables are routed through a wide variety of building types including hospitals, apartments and hotels.

All buildings have walls and floors with fire and acoustic ratings. When cables are installed through such constructions their integrity and ability to perform to the required fire and acoustic standards are significantly reduced.

**TENMAT** as part of its continuing development of passive fire protection solutions, has developed a range of **FIREFLY 108 Cable Basket Fire Sleeves**. The Cable Basket Fire Sleeves offer a quick and simple way to maintain the fire and acoustic ratings of cable basket penetrations.

### Product Dimensions

<table>
<thead>
<tr>
<th>To Suit Cable Basket Size</th>
<th>Nominal Thickness</th>
<th>Nominal External Width/Diameter</th>
<th>External Height</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 x 54 mm</td>
<td>25-30 mm</td>
<td>145 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>100 x 54 mm</td>
<td>25-30 mm</td>
<td>170 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>150 x 54 mm</td>
<td>25-30 mm</td>
<td>220 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>200 x 54 mm</td>
<td>25-30 mm</td>
<td>272 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>250 x 54 mm</td>
<td>25-30 mm</td>
<td>324 mm</td>
<td>114 mm</td>
<td>180 mm</td>
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<tr>
<td>300 x 54 mm</td>
<td>25-30 mm</td>
<td>374 mm</td>
<td>114 mm</td>
<td>180 mm</td>
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<tr>
<td>400 x 54 mm</td>
<td>25-30 mm</td>
<td>478 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>450 x 54 mm</td>
<td>25-30 mm</td>
<td>528 mm</td>
<td>114 mm</td>
<td>180 mm</td>
</tr>
<tr>
<td>Infill sheet</td>
<td>20 mm</td>
<td>180 mm</td>
<td>N/A</td>
<td>1000 mm</td>
</tr>
</tbody>
</table>

See page 10 for Fire Test Data or visit www.tenmat.com
**Product Description**

**TENMAT’s FIREFLY 108 Cable Basket Fire Sleeves** are a unique range of products designed to speed up and simplify the firestopping of cable trays or baskets.

The compressible and fully intumescent material provides an effective fire and acoustic seal around both the cables and the cable basket itself. The Sleeves have been fire tested to BS 476: Part 20 and acoustically tested in accordance with BS EN ISO 140-3:1995 and BS EN ISO 717-1:1997.

The Cable Basket Fire Sleeves are supplied in a standard length to suit all common wall constructions. The ready to install design does not require any additional metal work, support, fire rated sealants or foams.

**General Fitting Instructions**

*For detailed fitting instructions for various applications please contact TENMAT.*

- Use the Fire Sleeve as a template when cutting the plasterboard to provide a snug fit around the Fire Sleeve
- Slit the sleeve along its length to allow easy installation around cable tray or basket
- Fit sleeve around tray or basket and re-seal with aluminium repair tape supplied
- Once cables have been installed they should be tightly sealed with **TENMAT** Infill Material
- If required, an intumescent sealant can be used to ensure a smoke and acoustic seal
- Installation in solid walls is also approved
The TENMAT FIREFLY OverSleeve is a universal, one-product-fits-all solution for the firestopping of cable bundles and cable conduits. The thin and flexible intumescent is quickly and simply wrapped directly onto the conduit. The red branded foil can be easily checked and identified on site to confirm that firestopping is in place.

The unique FIREFLY intumescent material rapidly expands to crush and seal off the conduit to provide up to 600 minutes fire resistance.

### Key Features:
- 60 Minutes Fire Rated
- Low profile
- Can be retrofitted
- One Product Solution—suits both cable bundles and cable conduit penetrations

### Product Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Thickness</th>
<th>Contents of Pack as Supplied</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 mm</td>
<td>180 mm</td>
<td>2 mm</td>
<td>5 metre lengths, plus repair tape</td>
</tr>
</tbody>
</table>

### Examples of Approved Applications

- **Fire Tested in accordance with BS EN 1366-3: 2009**
  - Data Cable Bunches up to 60 mm diameter
  - Plastic Cable Conduit up to 60 mm outside diameter
  - Suitable for Drywall/Plasterboard Partitions
  - Suitable for Ablative Coated Fire Batts
  - Suitable for Solid Walls

See page 10 for Fire Test Data or visit www.tenmat.com
General Fitting Instructions
For detailed fitting instructions for various applications please contact TENMAT.

- The FIREFLY OverSleeve can be retrofitted over cable conduits/cable bundles.
- Cut the FIREFLY OverSleeve to the correct length for the conduit diameter/cable bundle, and wrap around conduit/cables.
- Seal edges together using repair tape provided. Ensure no gap between meeting edges of OverSleeve.

- Slide FIREFLY OverSleeve into place.
- Seal around the FIREFLY OverSleeve at the wall, using intumescent acrylic sealant.
- OverSleeve must protrude by min. 25 mm in partitions/solid walls, and 60 mm in ablative coated fire batts.
TENMAT’s FIREFLY 108 Fire Stop Block is a unique, compressible and fully intumescent alternative to fire pillows/intumescent pillows. The Fire Stop Block is supplied in 1 metre lengths and can be cut to size on site. This ensures maximum flexibility and minimum wastage compared to traditional fire pillows. The material can be installed within and around various openings and electrical penetrations including cable trays, cable baskets and both PVC and steel electrical cable trunking where intumescent fire pillows are traditionally used.

The product is easily identified on site and can be added and removed as required making this an ideal option for both permanent and temporary fire protection applications. This electrical firestopping solution provides up to 120 minutes fire integrity and insulation rating (EI120).

### Key Features:
- 2 Hour Fire Rating
- Alternative to fire pillows
- Easy to stack
- Compressible material
- Used with PVC/Metal Trunking, Cable Baskets, and Cables

### Product Dimensions

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mm</td>
<td>150 mm</td>
<td>1000 mm</td>
</tr>
</tbody>
</table>

### Fitting Instructions

- Measure the opening in the wall, trunking, or around the cable basket/cables
- Cut the Fire Stop Block to size in order to achieve a friction fit. Use a suitable knife or fine bladed saw
- Ensure the product is tightly friction fitted with no visible gaps

See page 10 for Fire Test Data or visit www.tenmat.com
Tenmat's full range of Passive Fire Protection products for fire stopping electrical service penetrations are third party fire tested to fire test standards such as BSEN 1366-3: 1999 and/or BS 476. We test our products in a wide range of applications to cover a variety of construction types.

### FF130 Socket Inserts
All tests were carried out in a Plasterboard Partition

<table>
<thead>
<tr>
<th>Report Type</th>
<th>Fire Test Lab</th>
<th>Report Number</th>
<th>Test Standard</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Acoustic Test</td>
<td>BRE</td>
<td>247-373</td>
<td>BS EN ISO 140-3:1995</td>
<td>68 dB</td>
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<tr>
<td>Air Leakage</td>
<td>Exova Warringtonfire</td>
<td>PO09020/02</td>
<td>BS EN 1026: 2000</td>
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</tr>
<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>RF08701 AR1</td>
<td>BS EN 1364-1: 1999</td>
<td>120 min</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF08039 Rev A</td>
<td>BS EN 1363-1: 1999</td>
<td>120 min</td>
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### FF109 Socket Covers
All tests were carried out in a Plasterboard Partition

<table>
<thead>
<tr>
<th>Report Type</th>
<th>Fire Test Lab</th>
<th>Report Number</th>
<th>Test Standard</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Acoustic Test</td>
<td>BRE</td>
<td>266220</td>
<td>BS EN ISO 140-3:1995</td>
<td>54 dB</td>
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<tr>
<td>Acoustic Test</td>
<td>BRE</td>
<td>237429</td>
<td>BS EN ISO 140-3:1995</td>
<td>54 dB</td>
</tr>
<tr>
<td>Air Leakage</td>
<td>Exova Warringtonfire</td>
<td>P09090/03</td>
<td>BS EN 1026: 2000</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF07015</td>
<td>BS 476: Part 20: 1987</td>
<td>120 min</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>RF12096 AR2</td>
<td>BS EN 1366-3: 2009 &amp; BS</td>
<td>60 min</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF07001</td>
<td>BS 476: Part 20: 1987</td>
<td>120 min</td>
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<td>Fire Test</td>
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<td>BS 476: Part 20: 1987</td>
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### FF108 Cable Basket Fire Sleeve

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<th>Report Type</th>
<th>Fire Test Lab</th>
<th>Report Number</th>
<th>Test Standard</th>
<th>Construction</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>Chiltern Fire</td>
<td>A12121</td>
<td>BS 476 &amp; BS EN 1366-3</td>
<td>Plasterboard, Blockwork</td>
<td>60-120 min</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF05040</td>
<td>BS 476</td>
<td>Concrete floor, Partition</td>
<td>120 min</td>
</tr>
<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF05044</td>
<td>BS 476</td>
<td>Partition</td>
<td>90-120 min</td>
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<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>IF08029</td>
<td>BS 476</td>
<td>Partition</td>
<td>60 min</td>
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</tbody>
</table>

### Firefly OverSleeve Plus

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<th>Fire Test Lab</th>
<th>Report Number</th>
<th>Test Standard</th>
<th>Construction</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Fire Test</td>
<td>Exova Warringtonfire</td>
<td>PF16154</td>
<td>BS EN 1366-3</td>
<td>Plasterboard Partition</td>
<td>60 min</td>
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### FF108 Fire Stop Block

<table>
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<tr>
<th>Report Type</th>
<th>Fire Test Lab</th>
<th>Report Number</th>
<th>Test Standard</th>
<th>Construction</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>Fire Test</td>
<td>Chiltern</td>
<td>IF11059B</td>
<td>BS EN 1366-3</td>
<td>Solid Wall</td>
<td>120 min</td>
</tr>
</tbody>
</table>

All tests were carried out in a Plasterboard Partition.
TENMAT is committed to the highest standards in customer service and our international staff is looking forward to assist you.

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