Intumescent Pillows

Fixing and application

Installation in floors
1. Make a basket using galvanised steel mesh (50 x 50mm squares x 2.5mm wire diameter) to sit into the hole in the floor slab. There should be a minimum 50mm overlap onto the surrounding floor slab or wall. Mechanically fix to top of floor slab or wall.
2. Lay Intumescent Pillows standing on end into the wire basket. Pack the pillows tightly into the basket around the penetrating services.
3. For electrical trunking, remove the lid and install a pillow inside so that it aligns with the depth of the floor. Replace the lid on the electrical trunking.
4. Lay a sheet of the galvanised steel mesh over the basket and tie together using steel wire.

Installation in walls
1. Push the first Intumescent Pillow into the hole to be filled, so that the longest dimension (300mm long) spans across the wall.
2. For electrical trunking, remove the lid and install a pillow inside so it aligns with the depth of the wall. Replace the lid on the electrical trunking.
3. Pack the hole tightly with additional Intumescent Pillows until it is full.

For plasterboard partitions, the hole must be framed out using suitable stud noggins prior to installing the Intumescent Pillows.

Installation of service penetrations
All penetrating services should be at least 100mm apart and located within the pillows at least 50mm from the surrounding aperture. Due to the nature of the penetrating service eg. steel or copper pipes, the fire insulation performance may be reduced. All penetrating services should be independently supported within 1m of the pillows, either side of the exposed edge / face of the pillows. For cables supported on trays passing through floor seals, the independent supports should be fixed to the trays and the cables clamped securely to the trays. Plastic conduits or trunking should be cut short by at least 100mm either side of pillow seal.

Intumescent Pillows

<table>
<thead>
<tr>
<th>Pillow size (mm)</th>
<th>Approximate number</th>
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</thead>
<tbody>
<tr>
<td>300 x 200 x 30</td>
<td>165 per m² opening</td>
</tr>
<tr>
<td>300 x 150 x 30</td>
<td>220 per m² opening</td>
</tr>
<tr>
<td>300 x 100 x 30</td>
<td>330 per m² opening</td>
</tr>
<tr>
<td>300 x 50 x 30</td>
<td>660 per m² opening</td>
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</tbody>
</table>
Health & safety

The mechanical effect of fibres in contact with skin may cause temporary itching.

- **Cover exposed skin**
  - When working in unventilated area wear disposable face mask.
- **Clean area using vacuum equipment.**
- **Rinse in cold water before washing.**
- **Ventilate working area if possible.**
- **Waste should be disposed of according to local regulations.**
- **Wear goggles when working overhead.**