Tecnatorch SBS
Roof Waterproofing System
An Energy Efficient Roofing System with Groove technology

Tecnatorch SBS capsheets feature a unique groove profile that uses 25% less gas and allows up to 30% faster application than traditional torch-on systems.

Tecnatorch SBS capsheets have been developed for use in high performance built-up systems on flat, pitched or curved roofs. When incorporated in a suitably designed multi-layer system they will greatly improve the long term performance of that system.

Tecnatorch SBS capsheets have proven their performance in all kinds of roofing applications time and time again and have a life expectancy of 20 years.

Features and Benefits
- Proven product performance
- Unique groove profile system
- Technically advanced low heat-reactive bitumen
- Exceptional bond strength
- Greater lap security
- Safer low flame application
- Reduced energy consumption
- Easy to handle and apply
- Choice of colours
- Ideal for use with Total Torch membranes
- FireSmart fire retardant capsheets available
- BBA approval (cert No 07/4409)

Guaranteed Performance
When installed as part of an Icopal approved specification and by an Icopal Approved Contractor, a Tecnatorch system is covered by a comprehensive 15 year insured guarantee, arranged with first class security in the London insurance market, providing absolute reassurance for specifiers and building owners.

The Option of FireSmart® Protection
FireSmart mineral surfaced capsheets incorporate Icopal’s unique FireSmart technology producing capsheets that provide a fire protection layer, shielding the roof from both spread of flame and fire penetration.

FireSmart membranes were the first flat roofing membranes approved by the Loss Prevention Certification Board (LPCB), whose standards are used by many insurance companies when assessing potential fire risk. It is also the first fire protection built up roofing system to be listed in the Red Book “List of Approved Fire and Security Products and Services”.

Although advanced in their formulation, FireSmart products are easy to install, using conventional torch-on application.

Groove Technology - Quicker, Cleaner and Greener
The grooved profile increases the surface area of the bitumen and, as the film is only in contact with the peaks of the grooves, it can be dispersed 30% faster.

Choice of Colour
Tecnatorch SBS capsheets are available in a range of colours allowing freedom and expression in the aesthetic consideration of the roof.

Green Brown Blue-grey Charcoal

Underside of a grooved membrane.
Tecnatorch SBS

Product Range

Capsheet:
- Tecnatorch SBS
  Energy efficient, high performance low melt reinforced elastomeric bitumen capsheets incorporating groove application technology. FireSmart® capsheets are also available.

Underlay:
- Total Torch Vapour Dispersion Layer
  A torch-applied glass reinforced SBS bitumen membrane. The Total Torch Dispersion Layer is constructed with partial bond bitumen stripes to the underside. These stripes play a special role within the system by allowing any trapped water vapour to disperse through the system.
- Premium SBS Torch-on Underlay
  Manufactured on a high strength polyester carrier, Premium SBS Torch-on Underlay provides a full bond suitable for use at all details such as upstands, gutters, and kerbs.

Insulation:
- Thermazone Torch-On Insulation
  A high performance CFC/HCFC free rigid polyisocyanurate (PIR) foam finished on the underside with a mineral coated glass tissue, and a bitumen-coated glass tissue finished with a thermofusible polypropylene fleece on the upper side. Cut to falls systems can be designed to fit any roof condition.
- Microtherm SK Vapour Control Layer
  A heat-activated self-adhesive vapour control layer reinforced with an extra strong glass fibre fleece with PET/Aluminium core. The lower surface has a heat-activated self-adhesive SBS bitumen and is finished with a siliconised pull-off release film. The upper surface has specially formulated low melt bitumen stripes with a Red SYTAN® coating between, and is finished with a thermofusible film.

Vapour Control Layers:
- Total Torch Vapour Control Layer
  Suitable for direct torching to non-combustible substrates. It is manufactured on a glass fibre reinforcement with a PET/Aluminium core. The upper surface is finished with specially formulated low melt bitumen stripes.

For substrates, such as plywood, and other combustible surfaces it is recommended that an Icopal self-adhesive heat-activated vel such as Icopal Micothermal SK is used.

Icopal offers a single source solution for complete roof waterproofing. This means simplifying the specification process whilst ensuring that all aspects of an installation attain the same excellent quality through stringent project monitoring and a guaranteed support mechanism.

Substrate Types

Tecnatorch SBS is a versatile system suitable for use with the following suitably prepared deck and substrates:
- Plywood, OSB/3
- Timber Boarding
- Profile Metal Decking
- Concrete/screeded surfaces
- Existing asphalt and bitumen roofs

For details of substrate preparation required contact our Technical Services Department.

Typical System Build Ups

Warm Roof - Plywood or OSB/3
1. Tecnatorch SBS Capsheet
2. Total Torch Vapour Dispersion Layer
3. Thermazone Torch-on Insulation Board
4. Microtherm SK Vapour Control Layer
5. Icopal SB Bitumen Primer
6. Plywood/OSB Structural Deck

Warm Roof - Concrete/Screeded Deck
1. Tecnatorch SBS Capsheet
2. Total Torch Vapour Dispersion Layer
3. Thermazone Torch-on Insulation Board
4. Total Torch Vapour Control Layer
5. Icopal QB Bitumen Primer
6. Cementitious Structural Deck

Icopal offer a free project support service to clients, contractors and specifiers allowing us to provide project specific guidance, including site surveys and bespoke specifications, ensuring the correct system is specified. Please contact your local Icopal representative to discuss your requirements.

Roof Types

As well as being used on new build warm roofs, Tecnatorch SBS can also be used, subject to Icopal approval, on cold and inverted roofs, and as a refurbishment overlay system.

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**Product Information**

**Tecnatorch SBS Capsheets**
- Total Torch Vapour Dispersion Layer
  - Premium SBS Underlay
  - Upper Surface: Mineral Granules
  - Reinforcement: Polyester
  - Lower Surface: Bitumen grooves with Thermofusible PE film

- Nominal Roll Length: 7.5 m, 8 m, 10 m
- Nominal Roll Width: 1 m
- Nominal Thickness: 4.0 mm, 3.4 mm, 2.8 mm
- Maximum Roll Weight: 38 kg, 32 kg, 21 kg

- Total Torch Vapour Control Layer
  - Micotherm SK Vapour Control Layer
  - Micoral SK Vapour Control Layer
  - Upper Surface: Bitumen stripes with Thermofusible PE film
  - Reinforcement: Glass fibre fleece with aluminium/PET foil
  - Lower Surface: Thermofusible PE film

- Nominal Roll Length: 8 m, 8 m, 15 m
- Nominal Roll Width: 1 m
- Nominal Thickness: 3.5 mm, 3.4 mm, 1.5 mm
- Maximum Roll Weight: 30 kg, 32 kg, 22.5 kg

**Insulation Summary Table**

<table>
<thead>
<tr>
<th>Product</th>
<th>Board Size</th>
<th>Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermazone Torch-on Insulation</td>
<td>1200 mm x 600 mm</td>
<td>30, 40, 50, 60, 70, 80-110, 120, 140, 160*</td>
</tr>
<tr>
<td>Thermazone Tapered Insulation</td>
<td>1200 mm x 600 mm</td>
<td>30-50, 50-70, 70-90, 90-110</td>
</tr>
<tr>
<td>Thermazone CLJ Jumper board</td>
<td>1200 mm x 1200 mm</td>
<td>80 mm</td>
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</tbody>
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* requires site lamination.

**Related Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Availability</th>
<th>Coverage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xtra Seal QD Bitumen Primer</td>
<td>25 L</td>
<td>9-11.1 m² per litre</td>
<td>For substrate preparation</td>
</tr>
<tr>
<td>Icopal SA Bitumen Primer</td>
<td>6.5 kg</td>
<td>0.1-0.2 kg per m²</td>
<td>For substrate preparation</td>
</tr>
<tr>
<td>Icopal HT 125 Taping Strip</td>
<td>100 mm x 16 m</td>
<td>10 linear metres per roll</td>
<td>For taping points in p/p/wood/OSB3</td>
</tr>
<tr>
<td>Tarmflush lead-free Flashing</td>
<td>120 mm x 950 mm</td>
<td>10 linear metres per roll</td>
<td>Lead flashing replacement</td>
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<tr>
<td>Icopal TCKM Adhesive</td>
<td>750 ml</td>
<td>up to 44 m² of roof/liner</td>
<td>Adhesive for bonding insulation boards</td>
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</tbody>
</table>

For further information on Icopal products please see individual product information sheets.

**Complimentary Products**

Icopal’s approach to providing a fully guaranteed and integrated waterproofing solution is to include a range of specifically designed complimentary products eliminating the need for split responsibility or unknown quality.

**Dalite Rooflights and Hatches**

It is now accepted that natural light in buildings helps create better quality environments for people, improving their concentration and general feeling of well-being, leading to better productivity.

Specifying and installing a Dalite Rooflight helps ensure optimum and uniform natural light in rooms, guaranteeing both health and economic benefits.

**Icopal Roof Safety Systems**

Icopal provides a range of Roof Safety Systems including guard rail and fall restraint systems.

There is a duty of care placed upon employers outlined in the Working at Height Regulations 2005 to provide safe methods of access and protection for personnel accessing roofs. Icopal can advise and design fall protection and roof safety systems with guaranteed waterproofing as part of the overall roof specification.

**Icopal Roof Plant and Equipment Support**

Provides a cost effective way of supporting rooftop equipment and services without penetrating the waterproofing. The system is lightweight and adaptable avoiding unnecessary costly detailing.

**Roofgard Accessories**

Roofgard accessories have been individually designed to ensure total compatibility and ease of application and play a vital role in achieving the total integrity of the Icopal waterproofing system. Amongst others, accessories include Roofgard Outlets, GRP Edge Trims, Roofgard Telescopic Vent Pipe. The Roofgard Paving Support System provides a versatile and cost effective means of creating a fully supported and stable raised paved area, terrace, walkway or balcony.

For further information on the range of products and accessories, please visit the website at www.icopal.co.uk