



# 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 N° 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.



ISO 9001



ISO 14001

## 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



### 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

All Tecnatorch membranes incorporate specially developed SBS modified bitumen blends with a grooved torching surface with a thermofusible film on the underside. These grooves increase the surface area of the bitumen and, as the film is only in contact with the peaks of the grooves, minimal heat is required to activate the unique adhesive properties of the bitumen and disperse the thermofusible film. The heat is then channelled quickly along the grooves giving a 'forward melt' effect allowing the membranes to be installed up to 30% faster than traditional torch applied membranes, whilst ensuring a 100% secure bond.



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.



Underside of a grooved membrane.



# Product Range



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.

## 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 polyisocyanate (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.

### Vapour Control Layers:

In a warm roof system a vapour control layer (VCL) should be used beneath the insulation to reduce the diffusion of water vapour into the warm roof system.

### • 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 vcl such as Icopal Micotherm SK is used.

### • Micotherm 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.

Once securely bonded to the substrate, heat is applied to the upper surface of these vapour control layers to activate the low-melt bitumen resin stripes in preparation for receiving the insulation.

## 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.

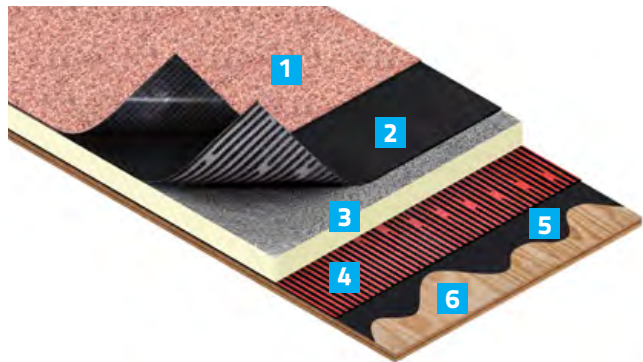
## Roof Types

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.

# Typical **System** Build Ups

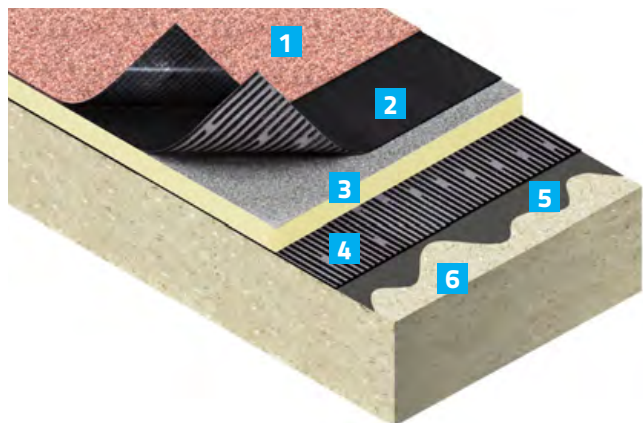
### Warm Roof - Plywood or OSB/3

- 1** Tecnatorch SBS Capsheet
- 2** Total Torch Vapour Dispersion Layer
- 3** Thermazone Torch-on Insulation Board
- 4** Micotherm SK Vapour Control Layer
- 5** Icopal SA Bitumen Primer
- 6** Plywood/OSB3 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 QD 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.

## Help and Advice

Comprehensive sales and technical support is available to offer advice on all aspects of design, specification and installation of Icopal products.



# Product Information

Product	Tecnatorch SBS Capsheets	Total Torch Vapour Dispersion Layer	Premium SBS Underlay
Upper Surface	Mineral Granules	Thermofusible PE film	Thermofusible PE film
Reinforcement	Polyester	Glass fibre fleece	Polyester
Lower Surface	Bitumen grooves with Thermofusible PE film	Bitumen stripes with Thermofusible PE film	Thermofusible PE film
Nominal Roll Length	7.5 m	8 m	10 m
Nominal Roll Width	1 m	1 m	1 m
Nominal Thickness	4.0 mm	3.4 mm	2.8 mm
Maximum Roll Weight	38 kg	32 kg	21 kg

Product	Total Torch Vapour Control Layer	Micotherm SK Vapour Control Layer	Micoral SK Vapour Control Layer
Upper Surface	Bitumen stripes with Thermofusible PE film	Bitumen stripes with Red SYNTAN™ and thermofusible film	Blue SYNTAN™ resin
Reinforcement	Glass fibre fleece with aluminium/ PET foil	Glass fibre fleece with aluminium/ PET foil	Glass fibre fleece with aluminium/ PET foil
Lower Surface	Thermofusible PE film	Heat-activated bitumen adhesive with siliconised release sheet	Heat-activated bitumen adhesive with siliconised release sheet
Nominal Roll Length	8 m	8 m	15 m
Nominal Roll Width	1 m	1 m	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

Product	Board Size	Thickness (mm)
Thermazone Torch-on Insulation	1200 mm x 600 mm	30, 40, 50, 60, 80, 90, 100, 110, 120, 140, 160*
Thermazone Tapered Insulation	1200 mm x 600 mm	30-50, 50-70, 70-90, 90-110
Thermazone CTF Jumper board	1200mm x 1200 mm	80 mm

\* requires site lamination.

## Related Products

Product	Availability	Coverage	Notes
Xtra-Seal QD Bitumen Primer	25 L	5-11 m <sup>2</sup> per litre	For substrate preparation
Icopal SA Bitumen Primer	4.5 kg	0.1-0.2 kg per m <sup>2</sup>	For substrate preparation
Icopal HT 125 Taping Strip	100 mm x 16 m	16 linear metres per roll	For taping joints in plywood/OSB3
Formflash lead-free Flashing	120 mm to 950 mm wide	10 linear metres per roll	Lead flashing replacement
Icopal TK395 Adhesive	750 ml	up to 14 m <sup>2</sup> of roof/canister	Adhesive for bonding insulation boards

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 a 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](http://www.icopal.co.uk)





**Icopal Ltd**

Barton Dock Road  
Stretford  
Manchester  
United Kingdom  
M32 0YL

Tel: +44 (0) 161 865 4444  
Fax: +44 (0) 161 864 2616  
info.uk@icopal.com  
www.icopal.co.uk

