

# Tecnatorch Bituminous Waterproofing



Pride. Passion.  
Performance.

[bmigroup.com/uk](http://bmigroup.com/uk)

# Trusted by generations of roofing professionals



**Icopal stands ready to help you solve the challenges of roofing, giving you full-system, whole-roof certainty, today and tomorrow.**

We know what roofing means to you – because it means the same to us. As part of the BMI Group, a world leader in flat and pitched roofing, we offer the UK's most complete range of roofing and waterproofing solutions and support services.

Tecnatorch is our pioneering, torch-on bitumen system for flat roofing projects. It's tried and tested. And it's been trusted by generations of roofing professionals because Tecnatorch is a complete system,

that makes it easier to achieve roofing you can be proud of. Just like it's always helped roofers build their own reputation for excellence across the decades.

Above all, Tecnatorch was developed to focus on what matters: performance.

# Why choose Tecnatorch?

**Tecnatorch has been trusted by roofing professionals throughout the years. Partnering with us means you can rely on the complete peace of mind that comes from the full, end-to-end service of Icopal.**

Our go-to bituminous flat roofing system is designed for ease and speed of installation and reliable performance every day.

- Unique groove profile to the underside of the membrane that enables faster application compared to traditional torch-on membranes.
- Multi-layer Tecnatorch systems achieve long term performance on flat roofing projects.
- Widely stocked and always available through our extensive merchant network.
- Access to Icopal flat roof experts, including specification, project support and training.
- Icopal guarantees are available up to 20 years, dependent on the Tecnatorch system selected.



## GUARANTEED PEACE OF MIND

- Proven performance
- Unique groove profile technology
- Technically advanced low heat-reactive bitumen
- Exceptional bond strength
- Greater lap security
- Safer low flame application
- Reduced energy consumption during installation
- Easy to handle and apply
- Choice of colours
- BBA approval (cert No 07/4409)
- Extensive B<sub>ROOF</sub> (t4) fire testing and classification, across all BMI Icopal bituminous roofing systems\*

\*B<sub>ROOF</sub> (t4) defines the highest external fire performance for roofs. BMI Icopal flat roofing systems have been extensively tested and attained B<sub>ROOF</sub> (t4) classification.

BMI Icopal Technical Services Team are happy to support you with the design and specification of a B<sub>ROOF</sub> (t4) compliant flat roof system to meet the specific needs of your project.

# Tecnatorch in action:



## Ongar Leisure Centre

A major upgrade and refurbishment of a heavily leaking bitumen roof required a full system solution, with a Tecnatorch bituminous membrane torch-on roofing system delivering a cohesive roof that's easier to maintain and install.



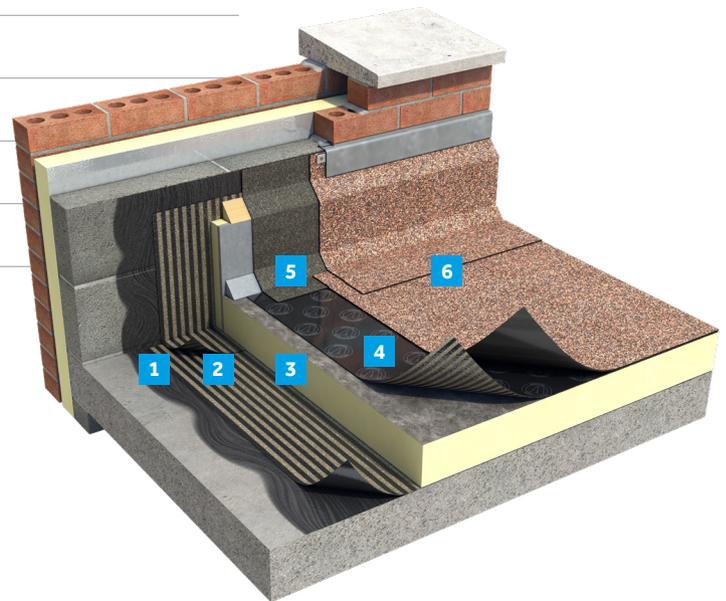
## Whitley Depot

A complete reroof for a fully operational council facility, including upgrading insulation and rooflights, working around the clock to minimise disruption. Covering 1,200m<sup>2</sup>, a quality Tecnatorch system, close collaboration and total commitment delivered the perfect result.

# Example Tecnatorch system

## Typical system build up:

|   | System layer         | Product                    |
|---|----------------------|----------------------------|
| 1 | Primer               | <b>Siplast Primer</b>      |
| 2 | Vapour control layer | <b>Total Torch VCL</b>     |
| 3 | Insulation           | <b>Thermazone Torch-On</b> |
| 4 | Underlay             | <b>Total Torch VDL</b>     |
| 5 | Detailing underlay   | <b>Tecnatorch Sanded</b>   |
| 6 | Cap sheet            | <b>Tecnatorch</b>          |



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**TECNATORCH SYSTEM COMPONENTS**

|                              | Product Name             | Product Code | Size  | Kg per m <sup>2</sup>   | Thickness | Torch-Applied or Self Adhesive  | Description   |
|------------------------------|--------------------------|--------------|---|---|-----------|---|---|
| <b>Cap Sheets</b>            | Tecnatorch Mineral       | 10001256     | 8x1m  |  5.0   | 4.2mm     |  | Tecnatorch Mineral is intended for use as a torch-applied cap sheet or underlay in a bitumen built-up roof system.*   |
| <b>Detailing Underlays</b>   | TA Detailing Underlay    | 10001356     | 10x1m   |  3.4   | 3mm       |  | TorchSafe TA Detailing Underlay is intended for use as a fully bonded underlay in a bitumen built-up roof system.   |
|                              | Tecnatorch Sanded        | 10001252     | 8x1m  |  4.5   | 3.8mm     |  | Tecnatorch Sanded is intended for use as a torch-applied cap sheet or underlay in a bitumen built-up roof system.*  |
| <b>Underlays</b>             | TorchSafe TA Underlay    | 10001232     | 10x1m   |  2.8   | 3mm       |  | TorchSafe TA Underlay is intended for use as an underlay/base layer in a bitumen built-up roof system.  |
|                              | Total Torch VDL          | 10001152     | 8x1m  |  3.9   | 3.4mm     |  | Total Torch Vapour Dispersion Layer is intended for use as a torch-applied underlay/base layer in a bitumen built-up roof system.   |
| <b>Vapour Control Layers</b> | Total Torch VCL          | 10001153     | 8x1m  |  3.8   | 3.5mm     |  | Total Torch Vapour Control Layer is a glass reinforced SBS-modified bitumen membrane with bitumen bonding stripes on the upper surface.   |
|                              | TorchSafe TA VCL Stripes | 10001442     | 7.5x1m  |  3.5   | 3.5mm     |  | TorchSafe TA VCL Stripes is intended for use as an air & vapour control layer in a warm roof system build-up.   |
|                              | TorchSafe TA VCL Sanded  | 10001443     | 15x1m   |  3.8   | 3.5mm     |  | TorchSafe TA VCL Sanded is intended for use as an air & vapour control layer in a warm roof system build-up.  |
| <b>Primers</b>               | SA Primer                | 20000724     |  25L | -   | -         | -   | SA Primer is designed to improve the bond adhesion of self adhesive/heat-activated bituminous membranes to a variety of substrates including plywood, OSB, metal and insulation.  |
|                              | Siplast Primer           | 10001450     |  25L | -   | -         | -   | Siplast Primer is designed to penetrate and seal substrates of masonry, concrete, cementitious screeds or renders, existing bituminous or asphalt waterproofing, structural steelwork and other metals, prior to the application of torch-applied bituminous membranes. |
| <b>Preparation Layers</b>    | HT 125 Taping Strip      | 10001147     | 16x0.15m  |  1.9  | 1.7mm     | Nailed  | HT 125 Taping Strip is a polyester reinforced SBS-modified bitumen membrane used at plywood and OSB board joints.   |
|                              | HT180 Sand               | 10001144     | 20x1m   |  1.9 | 1.8mm     | Nailed  | HT 180 Sand is a polyester reinforced SBS-modified bitumen membrane used for close boarded timber decks.  |

|                          | Product Name         |  | Description   |
|--------------------------|----------------------|--|---|
| <b>Insulation Layers</b> | Thermazone Roofboard |  <p>Contact our <a href="#">technical services department</a> for bespoke tapered insulation schemes.</p> | PIR is one of the most efficient insulation materials used in construction, it provides acoustic and thermal properties. It is rigid and durable and is commonly used in warm roof build ups. Thermazone Roofboard is available in flat or tapered formats. |
|                          | Thermazone Torch-On  |  | PIR is one of the most efficient insulation materials used in construction, it provides acoustic and thermal properties. It is rigid and durable and is commonly used in warm roof build ups. Thermazone Torch-On is available in flat or tapered formats.  |

\*The cap sheets are available in a choice of colours.

**Tecnatorch is a versatile roofing system and can be used with the following suitably prepared deck types: Plywood, OSB3, Timber Boarding, Profiled Metal Decking and Concrete/Screeded surfaces.**

**A typical Tecnatorch system build up includes:**



**Primer**

Primer is used to prepare the substrate for the application of the waterproofing system and ensure a secure bond. The type of primer used is dependent on whether a thermally activated or torch-on system is selected.



**Vapour control layer**

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



**Insulation**

High-performance rigid foam insulation (PIR) is used for thermal performance, and specialist board facings ensure compatibility with the system. Icopal thermal performance calculations and tapered insulation designs are also available to support your project.



**Underlay**

The Icopal dispersion underlay features partial bond bitumen stripes to the underside. These play a vital role in the system, allowing trapped water vapour to disperse, providing an optimal pressure equalising effect and blister prevention.



**Cap sheet**

Icopal high-performance, low-melt, reinforced elastomeric bitumen cap sheets, with built-in groove technology, provide the ultimate waterproofing and UV protection, encapsulating the flat roof system.



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