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World Reference
in Waterproofing

Icopal
Total Torch Roof System

ICO2554

Speed of installation
Ideal for new build or refurbishment
Reduced energy costs during application
Advanced striped technology

Total Torch Warm Roof System

Both specifiers and contractors are subjected to ever increasing downward pressure on design and installation times. Total Torch has been designed to meet these exacting standards. The Total Torch system is a fully torchable system that eliminates the need for bitumen boilers on the roof, thereby reducing the risk of boilers overheating and reducing project startup time. The system has been engineered to be up to 25% quicker than laying traditional torch-on built up roofing systems.

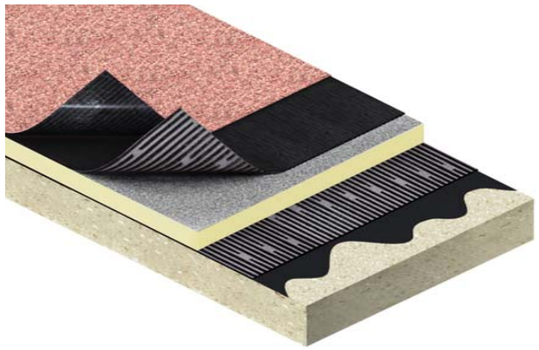
As well as being used on new build warm roofs, Total Torch membranes can also be used, subject to Icopal approval, on cold and inverted roofs as a refurbishment overlay system.

Self adhesive membranes are available where installing onto combustible surfaces such as timber. For details of deck and substrate preparation required contact our Technical Services Department.

Guaranteed Performance - When used in conjunction with the range of Icopal capsheets, the Total Torch system is supported by Icopal's comprehensive Insurance Backed Guarantees for periods of up to 20 years depending on capsheet used.

Total Torch System Benefits:

- Ideal solution for new or refurbishment projects
- Advanced Stripe technology
- Two layer waterproofing application
- Torch-on application - no bitumen boilers required
- Reduced energy costs during application
- Wide choice of Icopal capsheet to suit specification
- Supported by Icopal's Insured Guarantees

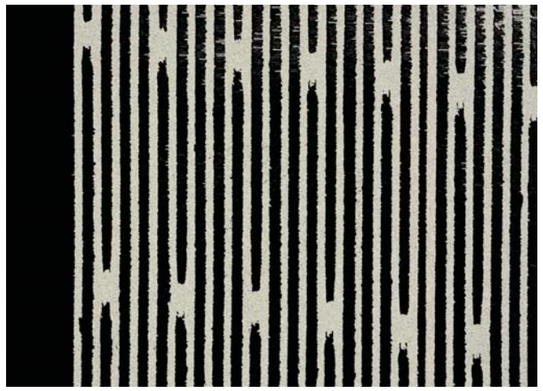


Thermazone Torch-on insulation is a rigid PIR insulation board and has been specifically designed to be used with Icopal bitumen partial bond torch-on membranes. The top surface is finished with a bitumen-coated glass tissue finished with a thermofusible polypropylene fleece to aid adhesion to the membrane. The underside is finished with a mineralised glass tissue.

Distinctive **Stripes** eliminate blistering

Within the Icopal Total Torch system, resins are profiled in a distinctive stripe pattern on the underside of the underlay membrane and on the top surface of the vapour control layer membrane.

Between the stripes is a quartz sand mixture coating. When the underlay membrane is bonded to the insulation, channels are formed which conduct water vapour under its own pressure. This eliminates the danger of vapour-induced blistering that can cause premature failure of the waterproofing.



The **Total Torch** membranes

Total Torch Vapour Control Layer
The Total Torch Vapour Control layer has a special PET extra strong core to resist the passage of water vapour and provide extra strength on profiled metal decks. The membrane is manufactured using SBS modified bitumen and has a thermofusible film on the underside, with partial bond mini stripes on the topside. Once these are activated the insulation will be laid directly on top. The thickness of the membrane is 3.5mm. The roll size is 1m x 8m.

Total Torch Vapour Dispersion Layer
The Total Torch Vapour Dispersion Layer plays a special role within the Total Torch system. Allowing any trapped water vapour to disperse through the system. The membrane is constructed with partial bond mini stripes to the underside and SBS modified bitumen with a thermofusible film covering to the topside. The thickness of the membrane is 3.4mm. The roll size is 1m x 8m.

Application
Low melt bitumen needs only a minimal application of flame to activate its fast adhesive properties. Once the **Total Torch Vapour Control** layer has been bonded to the substrate, heat is applied to its specially designed mini stripes onto which the insulation is fixed. **Thermazone Torch-on insulation** is approved for use within the Total Torch system, as its superior facings and dimensionally stable insulant are ideal for this form of installation. After the quick installation of the vapour control layer and the fixing of the insulation the **Total Torch Vapour Dispersion Underlay** is partially bonded to the insulation. On completion of this simple installation process, the Icopal torch-on capsheet is fully bonded to the underlay.