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# Total Torch Vapour Control Layer

## Reinforced Bitumen Roof Waterproofing Systems

### Introduction

Total Torch Vapour Control Layer is for use as a vapour control layer in bituminous, single-ply or liquid roof waterproofing systems. The membrane is used beneath insulation and safely controls the passage of internal water vapour through the roof structure. Since the membrane is adhered, it can provide a weatherproof temporary finish to the roof structure prior to the application of the final waterproofing system. It is suitable for use on both new and refurbishment projects.

### Standard

Total Torch Vapour Control Layer has been independently site and laboratory tested by the British Board of Agrément, and awarded BBA certificate number 07/4409.



### Description

Total Torch Vapour Control Layer is a SBS-modified bituminous membrane reinforced with an extra strong glass fibre fleece with a PET film. The upper surface is finished with specially formulated low melt bitumen stripes with a silica sand coating between and has a selvedge of 75 mm and is then finished with a thermofusible film. The lower surface is finished with a thermofusible film to prevent sticking in the roll.

### Intended Use

Total Torch Vapour Control Layer membranes are intended for use as a vapour control layer within a warm roof system.



### Properties

	Value	Tolerance
Nominal Roll Length	8.0 m	±100 mm
Nominal Roll Width	1.0 m	±10 mm
Nominal Roll Weight	31 kg	±2 kg
Nominal Thickness	3.5 mm	±0.1 mm
Upper Surface	Bitumen stripes with silica sand between	
Vapour Resistance	>3000 MN·s·g <sup>-1</sup>	
Equivalent air thickness	S <sub>d</sub> = 1'000 m	

#### Liquids

The material is impervious to water.

#### Thermal

The material is unaffected by freeze / thaw cycling. It will support temperatures from -20 °C to 90 °C without damage.

#### Durability

Correctly installed the product will have a life at least as long as that of the overlying roof waterproofing system.

#### Compatibility

Total Torch Vapour Control Layer membranes are compatible with most building materials with which they are likely to come into contact with during roofing works.

**Hydrocarbon solvent based products, such as Naphtha, paraffin and creosote will have a harmful effect and should not be allowed to come into contact with these membranes.**

**Timber used in the construction of the roof deck must not be treated with solvent based preservatives.**

### Surface Preparation

All surfaces to receive Total Torch Vapour Control Layer must be clean, dry and free from contaminants that may affect the adhesion and performance of the membrane. Surfaces must be free of sharp projections and mechanical fixings must be well driven to prevent damage to the membrane. Surfaces must be primed with an Icopal bitumen primer and left to dry completely prior to the application of the membrane.



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### Application

Total Torch Vapour Control Layer is applied by torch-on application using a standard roofer's torch. The membranes should be heated carefully ensuring the heat dispersible film on the underside is completely removed as work proceeds and ensuring a continuous 5 mm bead of bitumen is extruded from all laps. Side laps must follow the manufactured selvedge and be a minimum of 75 mm and end laps a minimum of 100 mm. Lap joints must be completely sealed and checked for security as work proceeds. At roof perimeters and upstands etc, ensure the membrane is dressed up to ensure a 100 mm overlap with the waterproofing thus enveloping the insulation.

**Application of Insulation:** Once the Total Torch Vapour Control Layer vapour control layer has been bonded to the substrate, heat is applied to the specially designed stripes onto which the insulation is fixed. When applying the insulation board to the Total Torch Vapour Control Layer, heat an area of the membrane similar in size to the insulation board to be applied, ensuring the heat dispersible film is completely removed. Position the insulation board, ensuring a firm downward pressure is applied. When heating the vapour control layer adjacent to applied insulation boards, T-guards must be used and the flame directed away from the insulation edges to protect the boards.

### Typical Specification

The vapour control layer to be Total Torch Vapour Control Layer as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester M32 0YL. Tel: 0161 865 4444 Fax: 0161 864 2616. The membrane is to be installed in accordance to the manufacturer's instructions and the requirements of *BS 8217: Reinforced bitumen membranes for roofing - Code of practice*.

### NBS Specification

Total Torch Vapour Control Layer is specified using the following:

**Clause:** J31/110, J41/110, J42/110

**Vapour Control Layer:** Icopal Total Torch Vapour Control Layer

**Manufacturer:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



### Delivery and Storage

The material is delivered stood on end on wooden pallets in a strong heat shrink bag. The material when removed from the pallet must be stood on end on a flat level surface, under cover and away from exposure to the sun and away from heat sources. Mechanical damage must also be avoided.

**Do not store where membranes are liable to come into contact with hydrocarbon solvents, such as petroleum spirit or diesel oil or other organic solvents.**

### Quality Assurance

Total Torch Vapour Control Layer membranes are supplied under a Quality Management System approved to *ISO 9001: 2000* by BSI Quality Assurance.



QMS: Q5556

### Health and Safety

Health and safety data sheets are available for all materials. Please contact Icopal's Technical Services Department for further information.

### Technical Services

Specialist advice and design guidance on all matters relating to Total Torch Vapour Control Layer is freely available from our Technical Department at the address below.

### Availability

Item Code	Description	Roll Size
2002781	Total Torch VCL	8 m x 1 m

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.