

PRODUCT DATA SHEET

Total Torch Vapour Dispersion Layer

Bituminous Torch-Applied Partial-Bond Underlay

Introduction

Total Torch Vapour Dispersion Layer is an engineered roofing product which has been designed to tackle a crucial element of roofing physics by eliminating blistering created by the build-up of water vapour pressure within the roof construction. It is suitable for use on both new and refurbishment projects.

Standard

Total Torch Vapour Dispersion 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 Dispersion Layer is a glass fibre reinforced SBS-modified bituminous membrane. The upper surface is finished with a thermofusible film. The lower surface is finished with specially formulated low-melt bitumen resin mini-strips and is protected with a thermofusible film.

Striped Technology

When trapped pockets of vapour in the system begin to warm up they expand and can form blisters. The specially formulated striped resinous profiles are optimally spaced to cover 50% of the membrane surface. The areas between the striped profiles are coated with a quartz sand mixture to prevent adhesion during application creating resin-free channels. The resin-free channels allow any trapped vapour to dissipate along the channels under its own pressure thus preventing blistering.

Availability

Item Code	Product Name
2002780	Total Torch Vapour Dispersion Layer

Performance and Properties

Nominal Roll Length	8m	±100mm
Nominal Roll Width	1m	±10mm
Nominal Roll Weight	30kg	±2kg
Nominal Thickness	3.4mm	±0.4mm

Tensile Strength N/50mm	600 _(MD)	450 _(TD)
Low Temp Flexibility	-12 °C	
Elongation at break	2%	
Water Vapour Resistance	684MNs.g ⁻¹	
Upper Surface Finish	PE Film	
Lower Surface Finish	Bitumen stripes	

(MD) Machine Direction (TD) Transverse Direction

Liquids

The material is impervious to water.

Biological

The material is not susceptible to insect attack or pest damage and is unaffected by fungi, moss, lichen, moulds or bacteria.

Thermal

The material is unaffected by freeze / thaw cycling. It will support temperatures from -12 °C to 90 °C without damage.

Compatibility

Total Torch Vapour Dispersion 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.



Total Torch Vapour Dispersion Layer

Bituminous Torch-Applied Partial-Bond Underlay

Surface Preparation

All surfaces to receive Total Torch Vapour Dispersion 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, except insulation, must be primed with Xtra-Seal QD Bitumen Primer and left to dry completely prior to the application of the membrane.

Application

Total Torch Vapour Dispersion 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 and the special bituminous stripes are sufficiently heated to achieve a complete partial bond to the substrate.

Lap joints must be completely sealed and checked for security as work proceeds ensuring a continuous 5mm bead of bitumen is extruded from all laps. Side laps to be a minimum of 75mm and end laps a minimum of 100mm.

Typical Specification

The underlay to be Total Torch Vapour Dispersion Layer, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester M32 0YL. Tel: 0161 865 4444 Fax: 0161 865. 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 Dispersion Layer is specified as an underlay using the following:

Clauses: J41/110, J41/120, J41/130

Product: Total Torch Vapour Dispersion Layer

Manufacturer: Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444 Fax: 0161 865 8433.

Health and Safety

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

Quality Assurance

Total Torch Vapour Dispersion Layer is manufactured under a Quality Management System approved to *ISO 9001: 2000* and an Environmental Management System approved to *ISO 14001: 2004*, by BSI Quality Assurance.



EMS 535978



QMS: Q5556

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.

Technical Services

Specialist advice and design guidance on all matters relating to Total Torch Vapour Dispersion Layer, including CAD detailing for all water-proofing requirements, is freely available from our Technical Department at the address below.

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.