

# VENT 3 – BREATHABLE MEMBRANE

Issue 4 - January 2010

**Description:** Vent3 is a triple layer fabric, high performance breather membrane, made from high tensile spun bonded polypropylene layers, around a micro-porous polypropylene film. Designed for use in a fully supported or unsupported tiled, slated or metal roof system.

The high vapour permeability and waterproof nature of the membrane, combined with excellent tensile/tear strength and high wind uplift resistance make Vent3 the professional's choice as the ultimate breather membrane. It is equally suitable whether draped unsupported over rafters or laid directly over insulation.

The outer layer forms the functional waterproof surface, the middle layer is the breathable waterproof membrane, and the inner layer protects the membrane from abrasion and damage, also giving additional strength. This enables the fabric to allow moisture vapour to pass through, whilst remaining fully waterproof. The upper surface is Blue, printed with the trade name and head lap lines. Available in 1.0m and 1.5m widths as standard to conform easily to any typical roof configuration or the individual working practices of the installer.

- Benefits:**
- Three Layer Membrane
  - Clean and easy to use
  - Lightweight and Flexible
  - Excellent tensile and tear strength
  - Waterproof Membrane
  - Long Term Durability
  - UV Stable (4 months exposure)
  - Warm and Cold Roof Application
  - No additional ventilation required

**Product Details:**

Roll Weight kg	2.1, 3.4, 6.8, 10.2
Weight g/m <sup>2</sup>	135
Roll Length m	15, 25, 50
Roll Width m	1 & 1.5
Roll Area m <sup>2</sup>	15, 25, 50, 75
Colour	Dark Blue Upper/White Lower

**Performance Details:**

Tensile Strength MD (EN12311-1)	TD	266N/50mm
		184N/50mm
Elongation MD (EN12311-1)	TD	74%
		97%
Nail Tear MD (EN12310-1)	TD	167N
		253N
Hydrostatic Head (BS EN 20811)		433cm
Water (Moisture) Vapour Transmission (BS 3177)		1258g/m <sup>2</sup> /24h
Reaction to Fire (EN 13501-1)		Class E
Resistance to streaming water (MOAT69:4.2.2)		Pass
Resistance to water penetration (EN 13859-1)		Class W1
Water Vapour Resistance (BS 3177)		0.16 MNs/g
UV Resistance		4 months

**Application:**

Vent3 must be installed in accordance with the relevant sections of BS 5534:2003 and Cromar's fixing instructions.

Vent3 is designed as a secondary barrier to wind driven rain and snow, it should not be considered a primary waterproofing layer. Whilst the product is UV stable for up to 4 months exposure, good roofing practice dictates that the primary waterproofing finish (e.g. tiles, slates etc.) be applied as soon as practically possible.

Under slating membranes should not be considered as temporary weatherproof protection for occupied buildings or where internal fitting out is taking place. Additional protection should be afforded in these circumstances.

Vent3 should be unrolled across the roof, starting at the eaves and working up the roof, it is usually laid Blue (printed) side up. With normal slates and tiles the Vent3 membrane can be installed draped 10mm to 15mm into the void between the rafters, it can then be secured with the tiling battens. This will leave sufficient space between the Vent3 and the tiles/slates for drainage and ventilation. Vent3 when installed as a fully supported system, is laid over the support and secured with counter battens, alternatively the membrane can be installed over counter battens and fixed at 200mm centres using corrosion resistant straps or galvanised clout nails. Tiling battens are fixed to the counter battens leaving a minimum airspace of 25mm between the roof sheet underlay and the tiles for drainage and ventilation.

In unventilated roof systems vapour control measures are required below the insulation layer to restrict the flow of moist air from within the inhabited building into the roof space. Additionally, the building below should be ventilated in accordance with the Building Regulations with water tanks sealed.

Abutment flashing should be wedged into a mortar joint 25mm deep and at least 150mm above the level of the slates or tiles. Vent3 underlay should be turned up behind the flashing at least 100mm to prevent rain and snow being blown into the roof-space. Lap joints in the membrane should be generally in accordance with the table set out below. 600mm reinforcing strips should be fixed at hips, ridges and valleys.

At the eaves Cromar felt support tray should be installed to prevent ponding behind the fascia. The Vent3 should be laid over the support tray stopping short of the roof tile tails to prevent UV degradation of the underlay.

**Notes**

1. As with all breather membranes of this type, contact with solvents or wet timber preservatives can cause localised water penetration to occur, prior to the main weatherproofing being installed.
2. In accordance with BS 5534: 2003 - Section 5.5.2.7 (c), where a roof underlay or breather membrane is to be laid over open rafters, a drape of between 10mm to 15mm between the rafters is desirable to guide any rainwater penetrating the main roof finish away from the rafters to the drainage point. (The membrane must not be pulled tight against the underside of the tiling battens.)
3. Vent3 should never be considered as being a total protection against wind-blown rain and high winds.

**Lap Size Table:**

Roof Pitch	Minimum Horizontal Lap Partially Supported (mm)	Minimum Horizontal Lap Fully Supported (mm)	Minimum Horizontal Lap (mm)
12.5° - 14°	150	225	100
15° - 34°	100	150	100
35° +	75	100	100

# Technical Data Sheet

**Health & Safety:** Please refer to health and safety data sheet on Vent3.

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Cromar Building Products Limited products' are available for sale in accordance with Cromar Building Products Limited standard conditions of sale, which is available upon request. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use, and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.

**Further Information:** In the event of further queries or problems concerning the use of this product, please contact the address below:-

Unit 3, The Maltings Industrial Estate,  
Doncaster Road, Whitley Bridge,  
North Yorkshire. DN14 0HH  
Tel: 01977 663133 Fax: 01977 662186  
[info@cromar.uk.com](mailto:info@cromar.uk.com) [www.cromar.uk.com](http://www.cromar.uk.com)



Unit 3,  
The Maltings Industrial Estate  
Whitley Bridge  
DN14 0HH

t: 01977 663 133 f: 01977 662 186  
e: [sales@cromar.uk.com](mailto:sales@cromar.uk.com)