

CI / SfB I I (47) I Ln6 I

December 2005

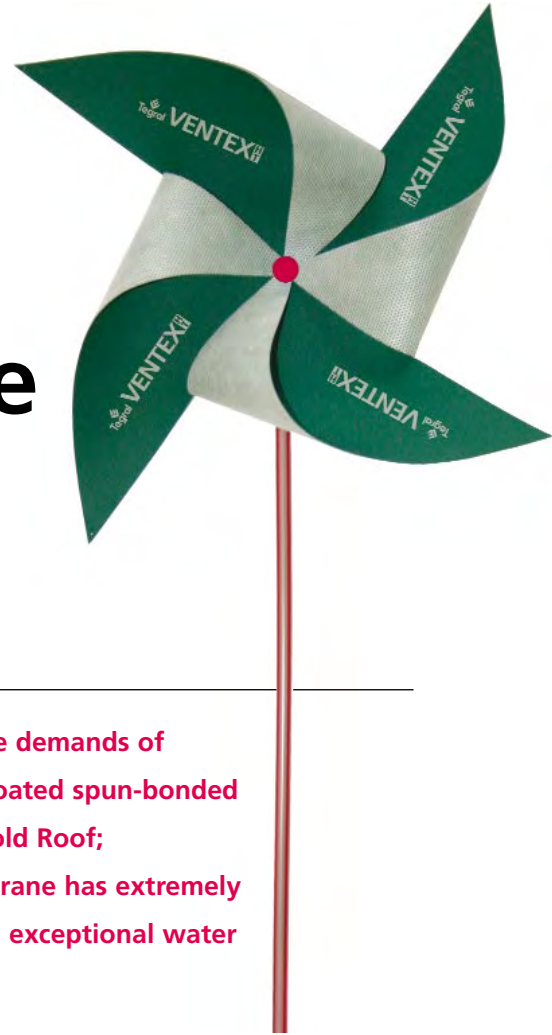


Tegral Ventex HT  
Breather Membrane





# Ventex HT Breather Membrane



**Tegral Ventex HT is a high quality Breather Membrane that meets the demands of different modern roofing constructions. Manufactured from acrylic-coated spun-bonded polyester, Ventex HT is for use in three main types of application: Cold Roof; Conventional Warm Roof and Sealed Warm Roof systems. The membrane has extremely high vapour permeability, allowing water vapour to escape, and also exceptional water resistance, preventing rainwater from penetrating.**

## **AUTHORITY**

Underlays are a vital part of roofing in Ireland as they are the second line of defence from the weather after the roof covering and are mandatory under the Irish and British codes of practice. Modern building designs have increased the use of Breather Membranes for both ventilated and sealed roof systems where there is a necessity for vapour permeability coupled with water repellence, such as warm roof constructions. Tegral Ventex HT has been awarded an Irish Agreement Certificate No 02/0162.

## **USES**

Tegral Ventex HT underlay is for use under slates or tiles in unsupported or fully supported ventilated pitched roof constructions. This applies in both warm and cold roof systems and in a non-ventilated warm roof system.

## **ADVANTAGES**

- Excellent "breathability" with vapour permeability > 820g/m<sup>2</sup>/day.
- High hydrostatic head >1000mm of water.
- Single-layer construction therefore cannot de-laminate.
- Supported by Tegral so can be used with confidence.
- Highly tear-resistant.
- Competitively priced.
- Available in a choice of roll widths, 1metre or 1.5metres.
- Can be left on roof for up to 3 months before final roof covering is fixed.
- Irish Agrément Board approved.
- Suitable for Cold, Warm and Sealed Warm roofs.
- For use in supported or un-supported applications.
- Vapour permeable, yet fully waterproof.
- Easy to cut and handle on site.

## **INSTALLATION PROCEDURE**

Tegral Ventex HT should be installed in accordance with the instructions laid down in Irish Agrément Certificate 02/0162, ICP2 and BS 5534.

- Where the plan length of the roof slope exceeds 6 metres, contact Tegral's Technical Services Department.
- At eaves, use a Tegral Underlay Support Tray.
- Lay Tegral Ventex HT parallel to the eaves with the green side uppermost and not damaged.
- Fix Ventex HT to the rafters with 3mm dia. x 20mm extra large-head clout nails made from copper, aluminium or galvanised steel. Fix at the head of the sheet only, at centres not exceeding 1200 mm.
- On unsupported roofs, the drape between the rafters should be 10-15 mm.
- Tegral Ventex HT should overlap the horizontal layer below according to the table opposite and be clamped under a batten.
- **On sealed warm roofs ie. fully supported, it is required that the roof is counter-battened over the Ventex HT.**

### INSTALLATION PROCEDURE (cont'd)

- Carry Ventex HT over the top of the bargeboard.
- At hips, run a 600 mm wide continuous strip of Ventex HT from eaves to ridge over the main roof underlay.
- At abutments, return Ventex HT 100mm up the wall.
- Where the membrane is carried over the ridge, there must be an overlap of 225 mm on the other slope.
- Any damaged material should be replaced or repaired with a new piece of the same material using Tegral Ventex HT adhesive tape.
- All penetrations to the underlay should be sealed with Tegral Ventex HT repair tape.

### GENERAL PRECAUTIONS

- Store Ventex HT on end or lay flat on a smooth, clean surface.
- Keep under cover, protecting from long-term exposure to UV light.
- Rolls must not be exposed to a naked flame or other ignition source.
- Moisture content of battens at time of fixing should not exceed 22%
- Ventex HT should not be left on the roof for longer than 3 months before covering with the final roofing material.
- Wet wood preservatives on roof timbers may cause chemical attack on Ventex HT. Contact Tegral for guidance in such circumstances.
- Tegral Ventex HT is not suitable for use in flat roof construction.
- Tegral Ventex HT is not suitable for supporting those working on it on the roof.\*

### TECHNICAL DATA

Colour	Green on upper face
Roll Width	1 metre or 1.5 metres
Roll Length	50 metres
Roll Weight	9.3kg or 14.0kg
Thickness	0.5mm
Water Vapour Resistance	0.24MNs/g
Water Vapour Permeability	> 820g/m <sup>2</sup> /day
Hydrostatic Head	> 1000mm of water
Temperature Stability	-40°C to +80°C
Nail Tear Resistance	> 140 N
Fire Rating	Class B2

\*A full Health and Safety Data Sheet is available on request.

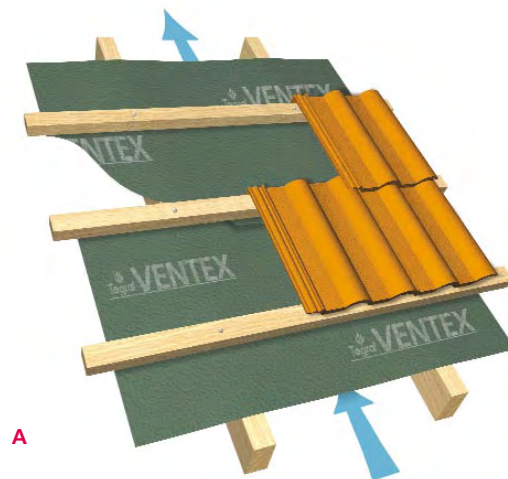
### MINIMUM OVERLAPS

Roof Pitch	Partially Supported	Fully Supported	Vertical Lap
< 22.5°	225mm	150mm	100mm
22.5° - 35°	150mm	100mm	100mm
> 35°	100mm	75mm	100mm

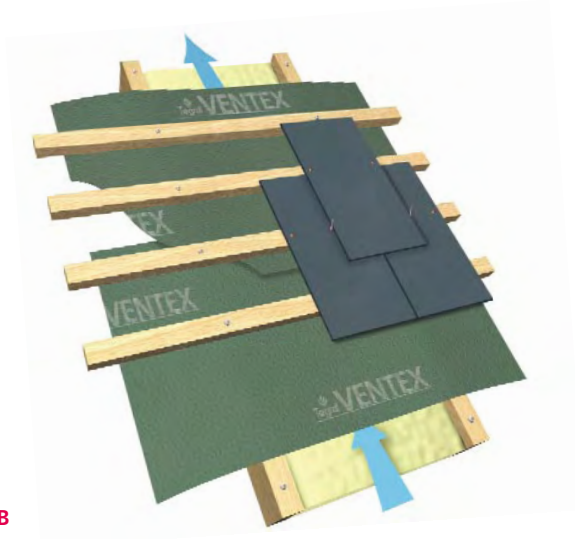
**A** Cold Roof

**B** Conventional Warm Roof

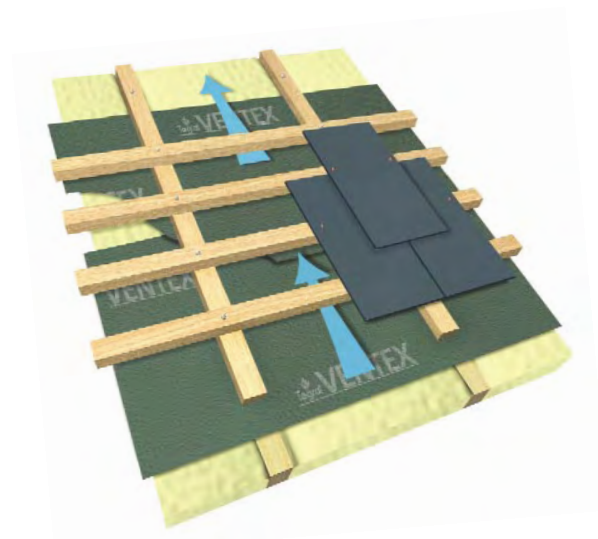
**C** Sealed Warm Roof



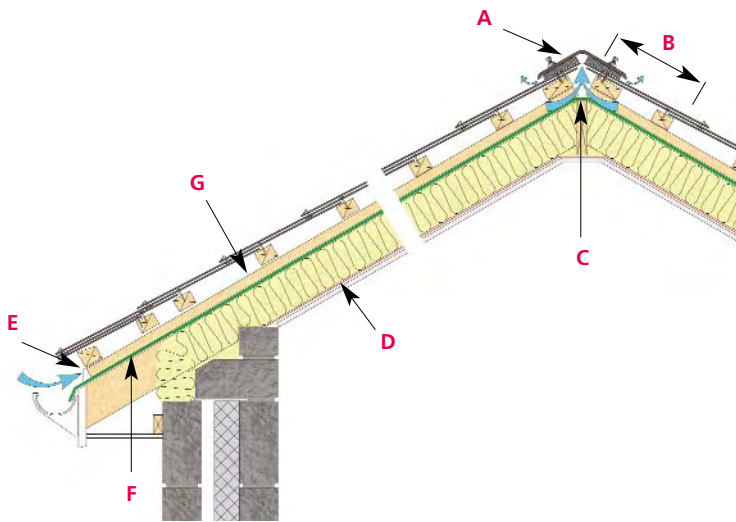
**A**



**B**

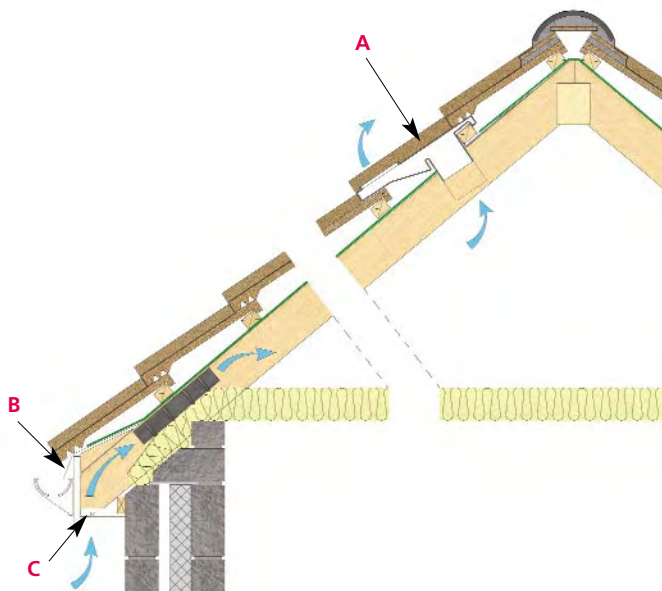


**C**



#### SEALED WARM ROOF

- A** Continuous vented ridge capping
- B** Minimum 225mm underlay lap
- C** Do not cut underlay at ridge
- D** Vapour control layer on warm side of insulation
- E** Insect mesh
- F** Underlay support tray
- G** Counterbatten



#### COLD ROOF

- A** Vent tile for high-level use only
- B** Underlay support tray
- C** Soffit ventilator

#### Tegral Building Products

Website: [www.tegral.com](http://www.tegral.com)

Technical support email:  
[support@tegral.com](mailto:support@tegral.com)

#### Republic of Ireland

Tegral Building Products Ltd.  
Athy, Co. Kildare  
Tel: +353 (0) 59 863 1316  
Fax: +353 (0) 59 863 8637  
email: [sales@tegral.com](mailto:sales@tegral.com)

#### Northern Ireland

Tegral Building Products NI Ltd.  
Lissue West Ind. Est., Moira Rd.  
Lisburn, Co. Antrim. BT28 2RE  
Tel: +44 (0) 28 9262 1414  
Fax: +44 (0) 28 9262 2393  
email: [nisales@tegral.com](mailto:nisales@tegral.com)