

# VIKING AIR

## TYPE LR AIR AND VAPOUR PERMEABLE ROOF UNDERLAY

Wind Uplift  
Resistance  
Zones 1-4  
(345mm batten  
gauge)



**P**rotect Viking Air is a new, premium type LR roof underlay with high air and vapour permeability, for use in warm and cold pitched roof constructions, helping to avoid the risk of harmful condensation without the need for additional ventilation when used with a well-sealed ceiling.

Designed with superior air permeability at 50 Pascals to BS EN 12114, the underlay also achieves wind uplift resistance to Zones 1-4\* at 345mm batten gauge to BS 5534, ensuring wide coverage across the UK and throughout Ireland. These qualities make Protect Viking Air best in its class.

*\* Meets Zones 1-4 without need for additional counter batten or integral tape. Achieves unrestricted use for wind uplift - Zones 1-5 at 310mm batten gauge or when installed on sarking board.*

### BENEFITS

- Superior airflow permeability –  $>78 \text{ m}^3/\text{m}^2/\text{hr}$  @ 50 Pascals to BS EN 12114, ensuring market leading performance.
- Hydrophobically treated underlay which provides additional water shedding qualities and water penetration resistance.
- Highly vapour permeable with a performance better than required in BS 5250.
- Completely watertight with  $>1.0\text{m}$  head of water resistance.
- Does not generate nuisance noise under wind loading.
- BM TRADA independently certified and CE marked for added reassurance in specification.
- Leads its class in wind uplift resistance to BS 5534, achieving Zones 1-4 at 345mm batten gauge without the need for extra counter batten or integral tape.
- Can be wrapped over the ridge for ventilation rather than cut short, ensuring water tightness of the roof at construction stage.
- Tough and durable, yet easy to cut and handle, with flexibility at low temperatures.
- No need to seal the underlay overlaps, ensuring fortuitous ventilation.
- Can be used as a temporary roof covering. ♦
- Helps to avoid condensation risk within the roofspace in accordance with BS 5250 and NHBC requirements.
- Can be used in cold roof construction without additional roofspace ventilation as permitted by NHBC.

♦ For clarification on exposure times please contact Glidevale Protect's Technical team.

## PROTECT VIKING AIR - TYPE LR UNDERLAY

CE marked and independently BM TRADA certified, this UV and heat stabilised polymeric roof underlay incorporates a vapour and air permeable, melt-blown technology core that is hydrophobically treated. This ensures an uninterrupted airflow rate and delivers the required permeability to eliminate the need for roofspace ventilation where a well-sealed ceiling has been installed. The NHBC accepts the use of a water vapour and air permeable underlay in cold roof construction without additional roofspace ventilation.



### PERFORMANCE

	MD	CD
Nail tear strength (N) to EN 12310-1 with mods	235	266
Unaged tensile strength (N/50mm) to EN 12311 with mods	270	230
Aged tensile strength (N/50mm) to EN 12311 with mods	240	200
Air permeability (m³/m²/hr) to BS EN 12114	78.71 @ 50 Pascals	
Water vapour resistance to BS EN ISO 12572	0.04 MNs/g / 0.008 S <sub>d</sub> (m)	
Resistance to water penetration to EN 1928 modified by EN 13859-1 (watertightness)	Pass Class W1 >1.0m hydrostatic head resistance	
Wind uplift resistance Zones 1-4 (at 345mm batten gauge) and 600mm rafter centres		
Weight	159gsm	
Flexibility at low temperature	-40°C	
MD = machine direction (along roll), CD = cross direction (across roll). UV and heat ageing conditions: UVA lamps at 50°C for 336 hours followed by heat ageing at 70°C for 90 days.		

Protect Viking Air's upper spunbond surface is hydrophobically treated to ensure water is repelled, ensuring a watertight and weather resistant roofing underlay, matched with a robustness to manage the wind load pressures on the roof. This provides a secondary line of defence against wind driven rain and dust ingress and means the product can be used to deliver temporary protection during the period the roof covering is applied. ♦

### PRODUCT DESCRIPTION

#### Size

Roll width: 1.0m or 1.5m  
Roll length: 50m  
Roll total area: 50 or 75m²  
Roll weight: 9 or 13kg

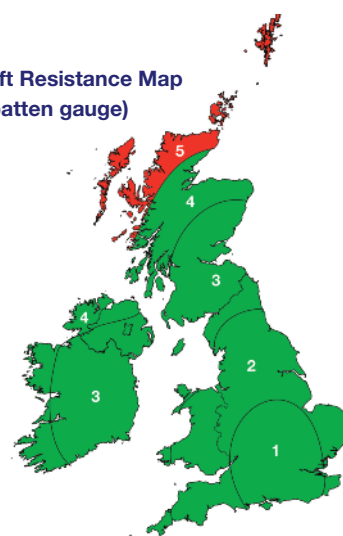
#### Appearance

Beige upper and white lower surface.  
Printed with product branding and grid for ease of identification and cutting on site.

#### Compatibility

As with all air and vapour permeable underlays, do not lay in direct contact with undried timber preservatives (whether water or solvent based).  
Protect OFV Eaves Skirt should be used at all gutter details.

### Wind Uplift Resistance Map (345mm batten gauge)



Meets Zones 1-4 at 345mm batten gauge (resistance to wind pressure 1569 Pa) without the need for additional counter batten or integral tape. Achieves unrestricted use for wind uplift - Zones 1-5 at 310mm batten gauge (2121 Pa) or when installed on sarking board.

#### Related products

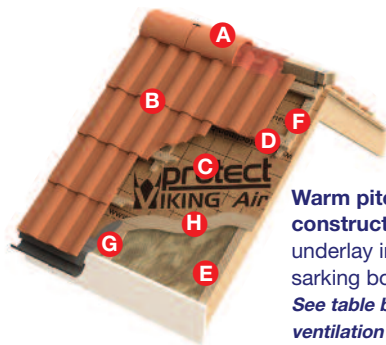
Protect Fulmetal RediRoll:  
[protectmembranes.com/rediroll](http://protectmembranes.com/rediroll)  
Protect OFV Eaves Skirt:  
[protectmembranes.com/eavesskirt](http://protectmembranes.com/eavesskirt)  
Protect VC Foil Ultra Air and  
Vapour Control Layer membrane:  
[protectmembranes.com/vcfoilultra](http://protectmembranes.com/vcfoilultra)

## WARM AND COLD PITCHED ROOFING APPLICATIONS

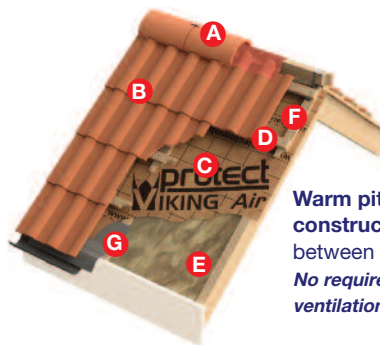
Protect Viking Air's high performance in air and vapour permeable technology ensures that ventilation is not required for either warm or cold pitched roofs, subject to the installation of a well-sealed ceiling.

As well as ensuring key ventilation requirements are met, Protect Viking Air helps to ensure condensation control, allowing air and water vapour to escape into the atmosphere via the roof covering. Most concrete and clay roof tiles are sufficiently air permeable but if an air tight

roof covering is used such as fibre cement slates or metal tiles, it would be necessary to ventilate the batten space. 25mm counter battens should be used above the underlay and ventilation provided - 25,000mm<sup>2</sup>/m at eaves or low level and 5,000mm<sup>2</sup>/m at ridge or high level.



**Warm pitched roof construction** with roofing underlay installed on sarking board.  
*See table below for ventilation requirements.*



**Warm pitched roof construction** with insulation between or above the rafters.  
*No requirement for additional ventilation.*

- A** Dry fix ridge system
- B** Roof tile covering
- C** Protect Viking Air
- D** Tile batten
- E** Insulation
- F** Counter batten
- G** Protect OFV Eaves Skirt
- H** Sarking board

### WARM ROOFS

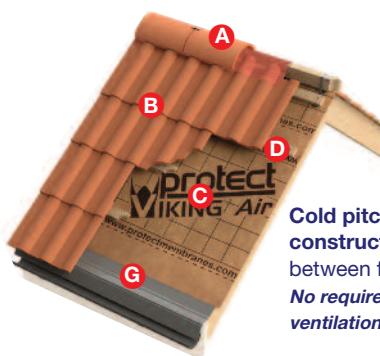
Roof pitch detail	Sarking type	Ventilation requirements
All roof pitches	Open jointed sarking planks	No additional ventilation requirements when used with Protect Viking Air
All roof pitches	Closed jointed sarking	Ventilation beneath underlay and above insulation of 25,000mm <sup>2</sup> /m at eaves or low level and 5,000mm <sup>2</sup> /m at ridge or high level. Space between underlay and insulation at least 50mm deep

#### Specification clause

Air and vapour permeable roofing underlay to be Protect Viking Air supplied by Glidevale Protect, 2 Brooklands Road, Sale, Cheshire, M33 3SS. Telephone: 0161 905 5700. Fax: 0161 905 2085. Email: info@glidevaleprotect.com. BM TRADA certified and CE marked underlay to be of triple ply construction with a weight of 159gsm. Underlay to incorporate a hydrophobically treated melt-blown technology core to ensure water tightness and air and vapour permeability, protected between two layers of non-woven spunbond material. Air permeability to be 78.71 @ 50 Pascals (m<sup>3</sup>/m<sup>2</sup>/hr) to BS EN 12114. Upper spunbond surface to be hydrophobically treated for additional water shedding qualities and water penetration resistance. Underlay to achieve a hydrostatic head of >1.0m. Water vapour transmission resistance: 0.04 MNs/g / 0.008 S<sub>d</sub>(m) to BS EN ISO 12572. Resistance to wind uplift: suitable for use in Zones 1-4 (at 345mm batten gauge). Underlay to be laid in accordance with BS 5534 and manufacturer's instructions.



**Cold pitched roof construction** with roofing underlay installed on sarking board.  
*See table below for ventilation requirements.*



**Cold pitched roof construction** with insulation between floor joists.  
*No requirement for additional ventilation.*

### COLD ROOFS

Roof pitch detail	Sarking type	Ventilation requirements
All roof pitches	Open jointed sarking planks	No additional ventilation requirements when used with Protect Viking Air
Above 35°, mono-pitch or lean-to roof where span is in excess of 10m	Closed jointed sarking	5,000mm <sup>2</sup> /m at ridge or high level and 10,000mm <sup>2</sup> /m at eaves or low level
12.5 - 15° **	Closed jointed sarking	25,000mm <sup>2</sup> /m at eaves or low level

\*\* Subject to tile manufacturer's minimum pitch

For all roof types mentioned, a well-sealed ceiling / separate air and vapour control layer on warm side of insulation is recommended. Glidevale Protect's Technical team can advise on all ventilation requirements for any roof type or pitch. Please contact technical@glidevaleprotect.com or call 0161 905 5700.



## A COMPREHENSIVE CHOICE OF ROOFING UNDERLAYS

Whatever your pitched roofing project, Glidevale Protect's broad collection of underlays has it covered. Providing the complete solution for all types of slate or tile roofs to meet the key requirements of water tightness, strong wind uplift resistance and condensation control, Glidevale Protect gives unrivalled choice in specification and complete peace of mind.

### Vapour Permeable & Airtight (Type LR)

Protect VP400 Plus LR  
Protect Zytec  
Protect VP300

### Impermeable & Airtight (Type HR)

Protect A1T3 Plus  
Protect A1  
Protect Wunderlay

### Air & Vapour Permeable (Type LR)

Protect Viking Air

## ROOFING VENTILATION RANGE

Suitable for all tile and slate roofs, the wide array of Glidevale Protect ventilation products helps reduce the condensation risk for the full cold or warm roof structure, delivering the required airflow requirements when used in conjunction with roofing underlays.

*The collection includes:*

### G Range Slate & Tile Ventilators

### In-Line® Slate, Tile & Ridge Ventilators

### Universal In-Line® Slate & Tile Ventilators

### Versa-Tile G5 Ventilator/Terminal

### RV Rafter Ventilators

### Fascia Ventilators

### Soffit Ventilators

### Abutment Ventilator

### Monovent (Lean to Roof) Ventilator

### Fulmetal RediRoll Ventilated

### Dry Ridge/Hip system

## ROOFING ACCESSORIES RANGE

A full package of roofing accessories for all tile and slate roofs is also available, designed to complement the roofing product collection and offering an ideal alternative to traditional products.

*The range includes:*

### AluFlash lead-free alternative flashing

### Universal Dry Verge Systems for slates and interlocking tiles

### Universal Dry Fix Valley Trough

### Universal Valley Trough

### Universal Bonding Strip

### OFV Eaves Skirt & Eaves Comb

### Solar Inlet Terminal

## CONSTRUCTION DIVISION

A whole range of product options to cover ground to roof is also available from Glidevale Protect's Construction Division. This includes a range of external wall membranes, internal airtightness and vapour control membranes for walls, floors and ceilings, sealing tapes, cavity trays, underfloor and cavity wall ventilation, intelligent passive stack ventilation - iPSV®, trickle vents, loft access hatches and radon protection.

### Glidevale Protect has it covered.

For more information, visit our websites at:  
[glidevale.com](http://glidevale.com)  
[protectmembranes.com](http://protectmembranes.com)

For further, detailed technical advice please contact the Glidevale Protect Technical team at: [technical@glidevaleprotect.com](mailto:technical@glidevaleprotect.com)

## Stockist's stamp

## GLIDEVALE PROTECT

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Glidevale Protect maintains a policy of continuous development and reserves the right to amend product specifications without notice.



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