

# VP400 PLUS LR Breathable Membrane



Protect VP400 PLUSLR is a highly vapour permeable roof underlay. It offers the lowest vapour resistance of any Type LR roofing underlay in its class, and yet it remains completely airtight. It is suitable for use in all pitched roofs.

Protect VP400 PLUSLR is both CE marked and BM TRADA certified. As the airtightness of buildings and dwellings continues to improve due to better workmanship and new practices, it is ill advised to allow uncontrolled air movement within the structure, including through a roof underlay in roofs with no vapour control or air barrier layers. One of the primary functions of roof underlays is to help manage the wind load pressures on the roof. In order to achieve this the underlay should have sufficient mechanical properties to be able to deflect the wind load pressures safely over the structure, one essential 'other' property is that the underlay be water and air tight. Air leaky or air permeable underlays allow air to penetrate the membrane making it much more difficult to withstand the maximum wind load pressures and driving rain without other surface treatments.

## Product Description

### Size

<b>Roll width:</b>	1.0 or 1.5m
<b>Roll length:</b>	50m
<b>Roll total area:</b>	50 or 75m <sup>2</sup>
<b>Roll weight:</b>	8.8 or 13.2kg

### Appearance

Embossed grey upper and lower surface. Printed with product branding for ease of identification.

### Compatibility

As with all 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.

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<b>Performance</b>	<b>Machine Direction (Along roll)</b>	<b>Cross Direction (across roll)</b>
Nail tear strength (N) to EN 12310-1 with mods	248	294
Unaged tensile strength (N/50mm) to EN 12311 with mods	325	305
Aged tensile strength (N/50mm) to EN 12311 with mods	290	295
Weight	170gsm	
Flexibility at low temperature	-40 degrees Celsius	
Water vapour resistance to EN ISO 12572	0.08MNs/g	
Watertightness	PASS (Class W1 > 7.0m hydrostatic head resistance)	
Wind uplift resistance unrestricted at 345mm batten gauge and 600mm rafter centres		

#### Benefits:

- Highly vapour permeable, but completely airtight (through the body of the material at 2,500Pa pressure).
- Completely watertight >7.0m water resistance. Strongest underlay in its class/weight range.
- UV and heat resistant. Tough and durable.
- Can be used as temporary roof covering.
- Has 'unrestricted' use for wind uplift in all exposure conditions in the UK and Ireland.
- BMTRADA Independently certified.
- Helps to avoid condensation risk in the roof space in accordance with BS 5250 and NHBC requirements.

#### Supply:

Extensive stocks are held at our distribution centres.

Nationwide and International delivery can be arranged for immediate despatch.

Unit 15 & 16, Airfield Approach Business Park  
Flookburgh  
Grange over Sands  
Cumbria  
LA11 7NG  
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