

VapR-free^{plus}

**High Performance Breathable
Pitched Roof Underlay**



Key Features

Highly Water Resistant
Breathable
**Eliminates Roof Space
Ventilation**
Energy Saving
User Friendly

VapR-free Plus is a multi layer laminate film composite made of polyolefin materials, resulting in a pitched roof underlay that has high vapour permeability but is also highly water resistant.

VapR-free Plus can be installed without the need for roof space ventilation, and is suitable for both Commercial and Domestic buildings, it is the ideal roof underlay for Warm and Cold Pitched Roofs.

Manufactured without the use of CFC's VapR-free plus is 100% recyclable and is very durable with high tensile and nail tear strength properties. These, coupled with excellent UV and heat stability properties ensure a life-span in excess of 30 years.

VapR-free Plus membrane has received BBA Approval and complies with BS5534-2003 Code of Practice for slating and tiling and NFRCTB6.

Recommendations for the use of vapour permeable membranes in pitched roofs are contained in BS 5250 : 2002 'Code of practice for control of condensation in buildings'.

Quality Assurance



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Installation Guide

Non-Ventilated Cold Pitched Roofs (partially supported)

VapR-free Plus when installed as a partially supported system should be fixed in the traditional method for roof tile underlays, laid parallel to the eaves and **draped between the rafters** to ensure that any moisture reaching the underlay will drain away. It is held in place by the tile battens, fixed using staples or large headed nails. **VapR-free Plus** can also be installed by pulling taut from gable to gable providing a 25mm counter batten is fixed to each rafter.

Prevention of Condensation

The complete roof construction, ceiling boards, underlay, insulation and roof tiles should be considered as a total roof system with regard to condensation risk. Insulation at ceiling level should be pressed tightly into the eaves against the underlay and all penetrations into, and out of, the roof space should be sealed. More extensive details of this can be found in our BBA certificate Section 5.

Prevention of Condensation (Extensions)

The roof space environment in both the extension and the original part of the dwelling should be the same. If the original part of the roof is vented then the extension should also be vented. Only if the extension is completely sealed off from the original roof should the VapR-free be installed without the aid of roof space ventilation.

Non-Ventilated Warm Pitched Roofs (fully supported)

VapR-free Plus when fully supported by the insulation can be laid vertically or parallel to the eaves and **held in place using counter battens** (minimum height 25mm). These in conjunction with 25 mm tile battens will ensure a minimum 50 mm clear airway above the underlay and will assist natural air movement through the batten space. Battens should be fixed using staples or large headed nails.

Roof space ventilation is not required for warm or cold pitched roofs but ridge or high level ventilation over the roof underlay for tight fitting tiles or slates will assist any moisture vapour to disperse more easily when air temperatures are very low.

Eaves : Mercury Building Products strongly recommend the use of **VapR-free Underlay Support Trays** in both open and closed eave construction. Details of this unique versatile product can be obtained directly from Mercury Building Products or from one of our stockists.

Packaging and Storage : **VapR-free Plus** is wrapped in polythene and delivered on a pallet. Individual rolls should be stored on their sides on a clean, dry, flat surface and protected from direct sunlight.

Technical Data

Property	Units	Value
Weight	g/m ²	142
Water Vapour Resistance	Sd (M) MN/sg	c.0.02 0.18
Water Vapour Transmission	g/m ² /24 hr	1112
Fire Rating	-	EN13501-1
Exposure Times UV Degradation	-	3/4 months

Product Data

Roll Width (linear metres)	1.5	1.0
Roll Length “	50	45
Coverage/roll/m ²	75	45
Roll weight/kgs	10.5	6.5
Rolls/Pallet	42	54

Minimum Overlap Detail

Roof Pitch	Horizontal laps		Vertical Laps
	Partially Supported	Fully Supported	Either
12.5° to 14°	225	150	100
15° to 34°	150	100	100
35°	100	75	100

Detail	Minimum Overlap Horizontally and Vertically (mm)	
	Verge	25
Hips	150	
Ridge	150	
Valleys	300	
Eaves	25	

General

VapR-free Plus must be installed with the (Green) Printed side, face-up and overlapped with the minimum dimensions listed. Trimming is achieved with a sharp knife. When partially supported with a horizontal lap between battens an extra batten should be introduced 25mm above the bottom edge. This will restrain the lap from opening under wind uplift.

VapR-free Plus prevents the ingress of wind driven rain and can be used as a temporary roof covering and left exposed to the elements. However it must be installed as recommended in our technical leaflet with regards to overlaps, fixings, draped between rafters or counter-battened and direct contact with uncured treated timber avoided.

Technical and Sales Support

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