

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

Roof space ventilation is not required providing the complete roof construction, ceiling boards, underlay, insulation and roof tiles are 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.

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 plus** 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.

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 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	-	B2*
Exposure Times UV Degradation	-	3/4 months

Product Data

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

Technical and Sales Support

For more detailed information please refer to our **Technical Data Sheet, BBA Certificate or simply contact Mercury Building Products Limited (01246 292816) who offer a full Technical and Sales Support**

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Packaging and Storage

VapR-free is wrapped in polythene and delivered individually or palletised. Individual rolls should be stored on their sides on a clean, dry, flat surface and protected from direct sunlight.

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	

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.

