

Master *Juta*

High Performance Reinforced Breathable Pitched Roof Underlay

Key Features

4-Layer Reinforced

Extremely Strong

Breathable

Highly Water Resistant

Eliminates Ventilation

Energy Saving

User Friendly

Master is a 4-layer highly water Resistant vapour permeable roof Underlay. Manufactured by a glue-bonding process in which a micro porous film is bonded together with polypropylene non-woven membranes that includes a reinforced grid.

Master can be installed without the need for roof space ventilation (except for NHBC approved homes) 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 CFCs Master 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.

Master vapour permeable underlay has received BBA and CE 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:2002 Code of practice for control of condensation in buildings.



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Quality Assurance



Installation Guide

Non-Ventilated Cold Pitched Roofs (partially supported)

Master when installed as a partially supported system should be 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.

Master can also be installed by pulling taut from gable to gable providing a 25mm counter batten is fixed to each rafter.

Non-Ventilated Warm Pitched Roofs (fully supported)

Master 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 25mm tile battens will ensure a minimum 50mm 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.

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 can be found in our BBA certificate.

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 **Master** be installed without the aid of roof space ventilation.

Roof Space Ventilation

The NHBC require that for all New Build Homes, ridge or high level ventilation is installed when a vapour permeable membrane is used such as **Master**. However, all other warm and cold pitched roofs do not require roof space ventilation when installed as recommended by this installation guide.

Eaves: Mercury Building Products recommend the use of Vaprfree Eaves Guards in both open and closed eave construction.

Packaging and Storage: Rolls of **Master** are wrapped in polythene and should be stored on their sides on a clean, dry surface and protected from direct sunlight.

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Technical Data

Property	Units	Value
Weight	g/m ²	160
Water Vapour Transmission (Sd)	m	0.02
Resistance to water penetration	class	W1
Fire Rating	class E	EN13501-1
Exposure Times UV Degradation	-	3/4 months

Product Data

Roll Width (linear metres)	1.5	1.0
Roll Length	50 mt	50 mt
Coverage/roll	75m ²	50m ²
Roll weight	12 kgs	8 kgs
Rolls/Pallet	30	36

Minimum Overlap Detail

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

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

Resistance to wind loads

Batten Spacing	Maximum pressure (kPa)			
	350mm	330mm	300mm	250mm
Master	1.0	1.0	2.0	2.5

General

Master must be installed with the 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.

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