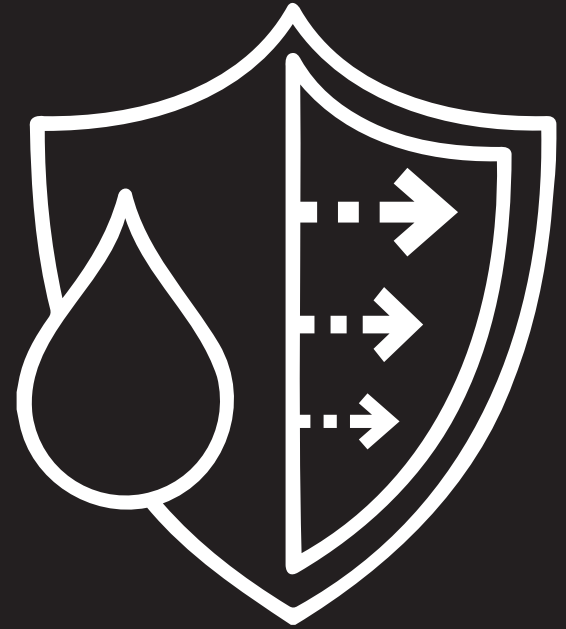





**1.5m x 50m**




**120gm<sup>2</sup>**

# HEAVY SHIELD



## BREATHABLE ROOF TILE UNDERLAY

-  Strong, lightweight & easy to install
-  Excellent resistance to water penetration
-  Superior water vapour transmission

-  CE Certified
-  Suitable for pitched roofs and walls
-  120gm<sup>2</sup>

Web: [www.pbpltd.co.uk](http://www.pbpltd.co.uk) Tel: +441709 728150



**PrinciPal**  
BUILDING PRODUCTS

# HEAVYSHIELD

BREATHABLE ROOF TILE UNDERLAY



## INSTALLING HEAVYSHIELD BREATHER MEMBRANE

HEAVYSHIELD is designed to be installed coloured side up. Tiling battens and where required counter battens, should be fixed to allow the product to drape between the rafters more than 6mm but not less than 25mm to allow any moisture to run off. The membrane should be installed horizontally starting at the eaves. Further rows of membrane should be lapped both vertically and horizontally as below.

### Minimum Overlaps:

	Horizontal		Vertical
Roof pitch in °	Partially Supported	Fully Supported	
12.5 to 14	225mm	150mm	100mm
>15	150mm	100mm	100mm

Ensure any penetrations such as roof lights, chimneys and service pipes are dressed to a minimum of 100mm to the up stand and sealed with flashing tape. Valleys and Hips must be covered with a separate 600mm wide strip of membrane.

HEAVYSHIELD should be returned up any abutment by 75mm from below a proprietary lead or alternative flashing.

HEAVYSHIELD must be lapped over the outer walling by at least 75mm at verges. Where there is a constructed overhang the product must be fixed to the outer rafter.

Where a duo roof is to be covered overlap the membrane by 150mm from one elevation to the other. For mono roof ridges the product should be extended over the ridge by 100mm. The membrane should also be extended to protect to the ends of roof timbers.

HEAVYSHIELD Breather Membrane should be supported by RHINOVENT EAVES GUARD at the eaves and draped a minimum of 150mm onto the guard. The eaves guard should be extended beyond the outer fascia board so that moisture may drain into the gutter. RHINOVENT EAVES GUARD is obtainable from Principal Building Products.

## HEALTH AND SAFETY ADVICE

Before commencing work at height a risk assessment should be in place and method statement prepared. Edge protection, netting, scaffolding and hoisting equipment are necessary to ensure the safe installation of roofing membranes.

# INSTALLATION INSTRUCTIONS

## STANDARDS AND INSTALLATION STANDARDS

The Building Regulations across the UK and Ireland all base their moisture control guidance for roofing on BS5250:2021 Management of moisture in buildings Code of practice. Approved Document C in England and Wales, covering "site preparation and resistance to contaminants and moisture", The Scottish "Section 3: Environment", Northern Irish Technical Booklet C and Technical Guidance Document F in the Republic of Ireland all reference this guidance.

## UV RESISTANCE

Although HEAVYSHIELD has a high UV resistance it is specifically recommended to cover the membrane as soon as possible with permanent roof tiles.

## WARM ROOF APPLICATIONS

BS 5250:2021 states there must be an adequate flow of air through the batten space when a breather membrane is used in a warm roof application. With most roof tiles and slates these provide enough ventilation but if an airtight tile or slate is used batten space ventilators should be installed. Counter battens will not normally be needed when the membrane is laid unsupported with drapes but counter battens will be required when the membrane is fully supported on insulation.

## COLD ROOF APPLICATIONS

In order to work effectively it is important that breather membranes are laid so that the space between the membrane and roof covering allows for adequate ventilation. Tiling battens should therefore be at least 25mm thick to ensure an adequate airspace between the membrane and final roof covering to allow water vapour to disperse. Counter battens are not normally required in a non ventilated cold roof as there should be adequate airflow between roof tiles or slates. However if an unusually airtight final roof covering is used then batten space ventilators and counter battens should be used. Ref: BS 5250:2021

The final roof covering manufacturer's advice should be sought on their products air openness when installed.

In non ventilated cold roofs consideration must be given to providing a vapour control layer and vapour check plasterboards to maintain a convection tight ceiling. All penetrations will require sealing including any loft hatches. The building below the roof void should be ventilated in accordance with national building regulations and standards. Extractor fans should be used in rooms with above average humidity and all water tanks should be covered and pipes lagged in the roof void. Advice should always be sought from Local Authority Building Control on the design and installation of ventilation systems with particular regard to cold roofs.