

## Roofing Underlays

### Vapour Permeable Underlays

#### Protect VP200

Protect VP200 is a highly vapour permeable roof underlay, produced in the UK. A 'Type LR' underlay, it offers low vapour resistance to exceed BS 5250 requirements whilst remaining completely airtight. Protect VP200 is CE and UKCA marked and independently approved by BM TRADA, with a Q Mark certification and is suitable for use in all pitched roofs.

The roof underlay should have a polymeric composition, comprising of two layers of spun bond non-woven polypropylene fabric and micro porous film interlayer. The underlay should be blue on the upper surface and white/grey on the under surface, with print on the upper surface (as installed). The membrane should provide a satisfactory underlay in tiled and slated pitched roofs constructed in accordance with BS 5534:2018. It should be able to be installed on new or existing buildings, being flexible at low temperatures with resistance to tearing by nails and to damage from handling on site. The underlay should be used as a secondary weather resistant layer for protection against wind driven rain and snow, tile wind-uplift and dust ingress.

The mass of the underlay should be 125g/m<sup>2</sup> with a thickness of 0.48mm, in roll sizes of 1m x 50m or 1.5m x 50m. Water vapour transmission resistance to be: 0.051MNs/g (0.010 Sd) to BS EN ISO 12572 to meet permeability requirements recommended by TRADA and NHBC. Resistance to wind uplift: Zones 1-2 in accordance with BS 5534:2018. With a batten gauge of ≤345mm, the underlay should have a resistance to wind pressure of 1022 Pa. Underlay to be laid in accordance with BS 5534, BS8000: Part 6 and manufacturer's instructions. The product's resistance to water penetration to BS EN 1928 with mods should be Pass, Class W1. The underlay should have a hydrostatic head of water resistance of >2.0m. Nail tear strength should be 141 (MD along roll) and 143 (CD across roll) to BS EN 12310-1 with mods and tensile strength should be 230 (MD along roll) and 170 (CD across roll) to BS EN 12311-1 with mods.

In warm roofs, condensation should be controlled using Type LR underlays with no additional ventilation, provided the ceiling is well sealed as defined in BS 5250. To ensure the integrity of a well-sealed ceiling, a separate vapour control layer should also be used on the warm side of the insulation. In cold roofs, condensation in dwelling sized roofs should be controlled by the use of a Type LR roofing underlay and a reduced level of ventilation required when compared to an impermeable underlay. Typically this would be either 3,000mm<sup>2</sup>/m at eaves or low level, or 5,000mm<sup>2</sup>/m at ridge or high level.

Type LR roofing underlay needs to be independently approved by BM TRADA and carry a Q Mark certification.

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STA Assured Gold accredited company and associate members of the Structural Timber Association (STA) The Modular and Portable Build Association (MPBA), The Irish Timber Frame Manufacturers' Association (ITFMA) and the Offsite Alliance (OA).

Product Reference: Protect VP200 Type LR Underlay

### Accessories

#### **Protect Fulmetal UniRoll ventilated dry ridge/hip roll system with unions:**

Protect Fulmetal UniRoll is a universal dry fixed ventilated ridge and hip system with unions, produced in the UK. Manufactured from aluminium, the product overcomes the durability and weathering issues associated with fabric based systems. This product should be used with Protect VP200 as part of a cold roof system to provide a ventilation area equivalent to 5,000mm<sup>2</sup>/m to ensure adequate ventilation to conform to BS 5250.

#### **Protect OFV Eaves Skirt:**

The Protect OFV Eaves Skirt replaces both the underlay into the gutter and the traditional tilting fillet. Used to avoid sagging and ponding of the underlay behind the fascia and ensure correct water discharge into the gutter. Manufactured from robust PVC-U construction, this resists impact and UV degradation over time and will not rot in the gutter unlike bitumen derivatives