

## PROTECT 1F Non-Vapour Permeable Membrane

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**Description:** A Non Vapour Permeable ( non breather ) membrane for use under slating and tiled pitched roofs.

**Introduction:** Protect 1f is a high performance underlay for pitched roofs, which must be ventilated in accordance with BS5250 2021.  
Install Protect 1F line with BS5534 2018.  
Protect 1f prevents the ingress of dust, rain and snow into the roof void. The membrane is classed as a secondary and should be treated as such and correctly installed will provide temporary protection of up to 3 months until the primary barrier ( slates/tiles ) have been installed.

The high performance lightweight material is clean and easy to handle, and the 45m x 1m roll size allows for easy handling.

Protect 1f is made up of three layer construction, comprising 2 high tensile polypropylene fabric layers, fused together around an impervious film and is coloured anthracite.

**Advantages:**

Clean and easy to use	Temporary cover for up to 3 months
Lightweight	Anthracite surface prohibits glare
Excellent tensile strength	UV and heat stable
No mess	No gusting wind noise
1 metre wide for easy handling	Timesaving over bitumen based 1F
Excellent nail tear resistance	

**Product Details:**

Roll Weight kg	1.43 & 4.23
Weight kg/m <sup>2</sup>	0.95
Roll Length m	15, 45
Roll Width m	1
Roll Area m <sup>2</sup>	15 & 45
Colour	Anthracite Upper/White Lower
Thickness	0.5mm
Tensile Strength MD (EN12311-1) TD	180N/50mm 110N/50mm
Elongation MD (EN12311-1) TD	65% 70%
Nail Tear MD (EN12310-1) TD	95N 130N
Reaction to Fire (EN 13501-1)	Class E
Resistance to water penetration (EN 13859-1)	Class W1
Hydrostatic Head (BS EN 20811)	> 2000mm
UV Resistance	3 months

**Application:** Protect 1f underslating membrane should be installed in accordance with the recommendations laid out in BS5534:2018. Installation can be carried out in all conditions normal to roofing work. The product should be laid horizontally across the rafters, starting at the eaves. Protect 1f should be laid up the roof slope, with a maximum drape between the rafter of 15mm. Unless counter battened do not pull the Protect 1F taut. The minimum laps below are taken from BS 5534:2018.

Roof Pitch	Minimum Horizontal Lap (mm)	Minimum Vertical Lap (mm)
12.5° - 15	225	100
15° +	150	100

**Ventilation:** Protect 1f is classed as a HR underlay and requires ventilation in line with BS5250 2021.

**Valleys:** An underlay strip of Protect 1F of at least 600mm wide should be laid under the main roof underlay and held down by the valley battens. The underlay should be dressed over the valley battens.

**Hips and Ridges:** A 600mm wide strip of Protect 1F should be laid over hips/ridges and above the underlay to the main roof.

**Abutments:** Flashings should be wedged into a mortar joint 25mm deep and at least 150mm above the level of the slates or tiles. The underlay should be turned up behind the flashings at least 100mm to prevent weather ingress being blown into the roof-space.

**Eaves:** Tiles or slates should overhang the centre of the gutter. To avoid ponding behind the fascia. Protect 1F should be supported with a Cromar Underlay Support Tray overlapped by a minimum of 150mm.

**Health & Safety:** Please refer to health & safety data sheet on Protectif.

**Further Information:** In the event of further queries or problems concerning the use of this product, please contact the address below:-

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