

PROTECT A1®

TYPE HR ROOF UNDERLAY

Protect A1 is a third generation roofing underlay which has been developed specifically to overcome the disadvantages of traditional Type 1F felts and second generation plastic sheet materials.

The product can be used for all pitched roof constructions (tiled and slated), whether the insulation is at ceiling joist level or at rafter level. It is a twin-ply construction of polypropylene non-woven spunbond layer and PP film.

Providing a secondary line of defence against wind driven rain and snow, Protect A1 offers unrestricted use for wind uplift.



**Wind Uplift
Resistance
Zones 1-5
(345mm batten
gauge)**

BENEFITS

- Completely water and air tight.
- Can be used as a temporary covering.
- Excellent nail tear strength and tensile strength.
- Has 'unrestricted' use for wind uplift in all exposure conditions in the UK and Ireland.
- UV and heat resistant.
- Absorbent undersurface prevents condensate drip-off.
- Embossed dark grey upper surface reduces glare and takes a chalk line marking.
- Does not generate noise under wind loading.
- Easy to cut, clean, light to handle and unaffected by temperature changes.
- CE marked and BM TRADA certified.



Wind Uplift Resistance Map
(345mm batten gauge)



PRODUCT DESCRIPTION

Size

Roll sizes: 1.5m x 30m (45m²)

1.0m x 45m (45m²)

Roll weight: 7.5kg

Compatibility

As with most underlay materials, do not lay in direct contact with any undried timber preservatives (whether water or solvent based). Protect OFV Eaves Skirt should be used at all gutter details.

Roof ventilation

Roof space ventilation should be provided at both low and high level as with all impermeable (type HR) roofing underlays irrespective of insulation type or position. A1 has unrestricted use from zones 1 to 5 at the maximum batten gauge of 345mm, to BS 5534. No adhesive tapes are required to restrain the overlaps. Where insulation follows the rafters, there must be a ventilated air space at least 50mm deep above the insulation and beneath the underlay.

Specification clause

Roofing underlay to be Protect A1 supplied by Protect Membranes, 2 Brooklands Road, Sale, Cheshire, M33 3SS. Telephone: 0161 905 5700, Fax: 0161 905 2085. Email: info@protectmembranes.com. Underlay to be of twin-ply construction 145gsm with polypropylene to achieve hydrostatic head of >2.0m. To prevent UV degradation of the underlay, install Protect eaves skirt to avoid sagging and ponding of underlay behind fascia and ensure correct water discharge into the gutter. Resistance to wind uplift: zones 1–5 at maximum batten gauge of 345mm. No adhesive tapes are required to restrain the overlaps. Under surface to have absorbent characteristics to prevent condensate drip off. To be laid in accordance BS 5534: Part 1 and manufacturer's instructions.

PERFORMANCE

	MD	CD
Nail tear strength (N) to EN 12310-1 with mods	230	234
Unaged tensile strength (N/50mm) to EN 12311 with mods	287	274
Aged tensile strength (N/50mm) to EN 12311 with mods	285	238
Weight	145gsm	
Watertightness	W1 Pass>2.0m hydrostatic head resistance	
Wind uplift resistance unrestricted at 345mm batten gauge and 600mm rafter centres		
MD = machine direction (along roll), CD = cross direction (across roll). UV and heat ageing conditions: UVA lamps at 50°C for 336 hours followed by heat ageing at 70°C for 90 days.		

Related products

Protect Fulmetal RediRoll: www.protectmembranes.com/rediroll

Protect OFV Eaves Skirt: www.protectmembranes.com/eavesskirt

Stockist's stamp



PROTECT MEMBRANES

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Protect Membranes maintains a policy of continuous development and reserves the right to amend product specifications without notice.



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