

RP110

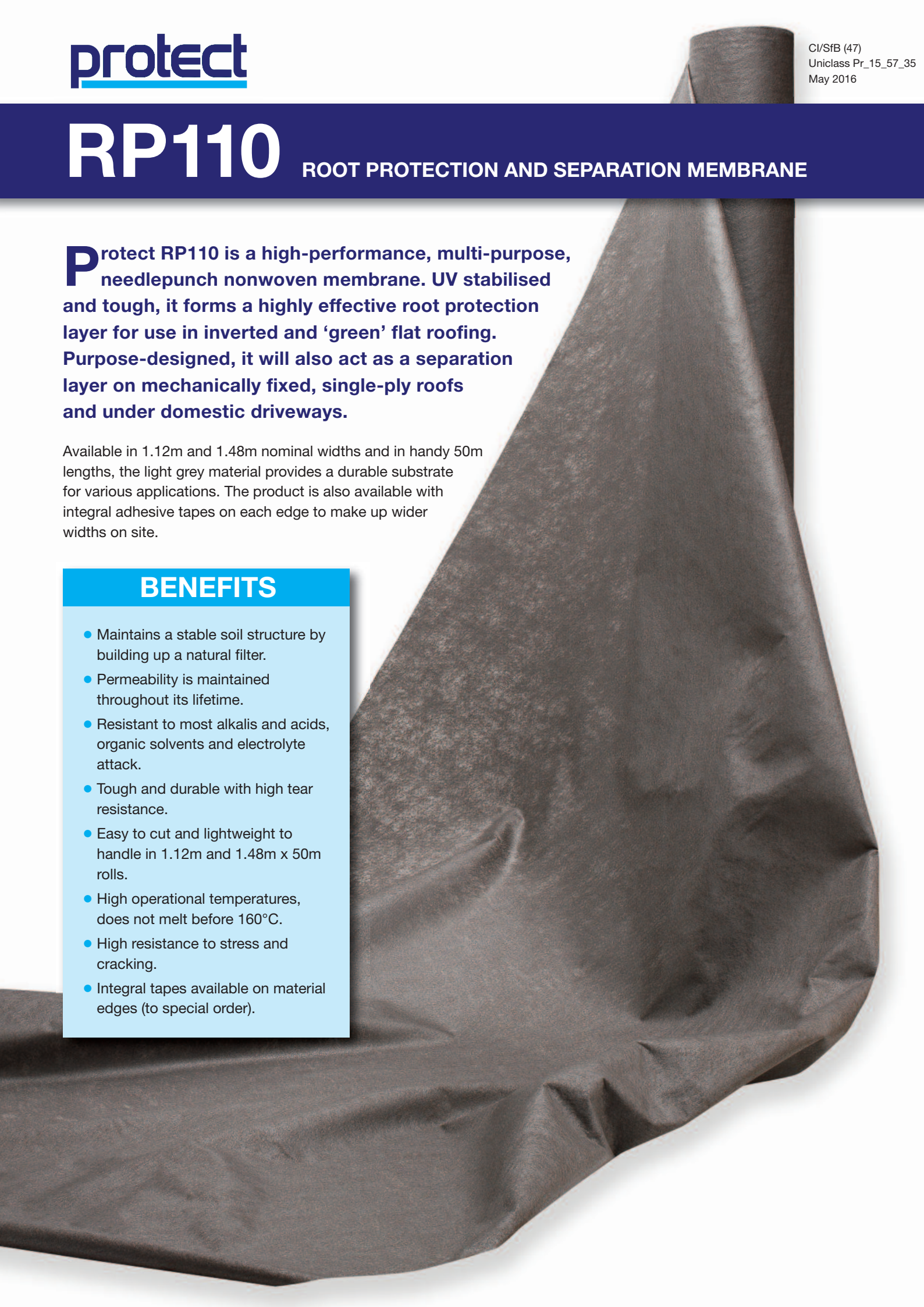
ROOT PROTECTION AND SEPARATION MEMBRANE

Protect RP110 is a high-performance, multi-purpose, needlepunch nonwoven membrane. UV stabilised and tough, it forms a highly effective root protection layer for use in inverted and 'green' flat roofing. Purpose-designed, it will also act as a separation layer on mechanically fixed, single-ply roofs and under domestic driveways.

Available in 1.12m and 1.48m nominal widths and in handy 50m lengths, the light grey material provides a durable substrate for various applications. The product is also available with integral adhesive tapes on each edge to make up wider widths on site.

BENEFITS

- Maintains a stable soil structure by building up a natural filter.
- Permeability is maintained throughout its lifetime.
- Resistant to most alkalis and acids, organic solvents and electrolyte attack.
- Tough and durable with high tear resistance.
- Easy to cut and lightweight to handle in 1.12m and 1.48m x 50m rolls.
- High operational temperatures, does not melt before 160°C.
- High resistance to stress and cracking.
- Integral tapes available on material edges (to special order).



PERFORMANCE

Weight	EN ISO 9864	111 (+/- 11.1)gsm	
Thickness at 2kPa	EN ISO 9863-1	0.9 (+/- 0.18)mm	
		MD	CD
Tensile strength	EN ISO 10319	9.0 (-1.2)kN/m	9.0 (-1.2)kN/m
	EN 12311-1	400 (-40)N/50mm	400 (-40)N/50mm
Tensile elongation	EN ISO 10319	45 (+/-10)%	45 (+/-10)%
Elongation	EN 10319	45 (+10)%	50 (+10)%
Nail tear strength	EN 12310-1	200 (-20)N	200 (-30)N
Weathering resistance	EN 12224	90% retain strength	90% retain strength
Resistance to liquids - acid	EN 14030	90% retain strength	90% retain strength
Resistance to liquids - alkaline	EN 14030	90% retain strength	90% retain strength
Oxidation resistance	EN ISO 13438	90% retain strength	90% retain strength
Resistance to soil burial	EN 12225	90% retain strength	90% retain strength
Resistance to static puncture	EN ISO 12236	1600 (-240)N	
Dynamic perforation resistance	EN ISO 13433	32 (+8)mm	
Characteristic opening size	EN ISO 12956	95 (+/-28.5) μ m	
Water permeability $V_{I_{H50}}$	EN ISO 11058	120 (-36)mm/s	
Water flow rate	EN ISO 11058	120 (-36)l/m ² /sec	
Water vapour resistance	EN ISO 12572	0.02 MNs/g	
Equivalent air layer thickness	EN ISO 12572	0.004 s_d (m)	

MD = machine direction (along roll), CD = cross direction (across roll).

Specification clause

Membrane to be Protect RP110 root protection and separation layer supplied by Protect Membranes, 2 Brooklands Road, Sale, Cheshire M33 3SS. Telephone: 0161 905 5700 Fax: 0161 905 2085. Email: info@protectmembranes.com Membrane to comprise a multi-purpose UV and heat-stabilised 110gsm needlepunch nonwoven.



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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