


# MONARFLEX® Protect 1F

## Application:

The Monarflex Protect 1F product is an underlay for discontinued roofing for used in application on pitched roofs over rafters in ventilated roof constructions only.

## Properties:

The Monarflex Protect 1F is the light weight easy to work with roofing underlay that combines traditional LDPE plastic and PP spun bond material. The product is ageing resistant to UV and IR.

Product data				
Built-up Top side Bottom side	LDPE coating that is UV and IR stable PP (Polypropylene) spun bond UV stable			
Colour	Black			
Weight	125 g/m <sup>2</sup>	±10%	EN 1849-2	
Application	The material is unrolled taut over rafters, but with a bit of slack for temperature variations. The minimum overlap is 150 mm. All penetrations/joints must be sealed with suitable tape or sealer. The minimum pitch angle must be no less than 20 degrees.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	30,00 & 45,00	+1% -0%	EN 1848-2
Width	m	1,00 & 1,50	+1,5% -½%	EN 1848-2
Thickness	mm	0,27	±25%	EN 1849-2
Tensile strength	N/50 mm	MD 160	±25	EN 12311-1
		TD 150	±25	EN 12311-1
Elongation	%	MD 80	±15	EN 12311-1
		TD 85	±15	EN 12311-1
Nail tear resistance	N	MD 130	±25	EN 12310-1
		TD 140	±25	EN 12310-1
Dimensional stability	%	Max 2		EN 1107-2
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Temperature range	°C	- 40°C to +80°C		
Cold bend	°C	-20 Max	±1°C	EN 1109
Sd value	m	30	±8	EN 1931
Water tightness	Class	W1		EN 1928, Method A
Fire classification	Class	F		EN 13501-1
Ageing after EN 1297 & EN 1296				
Tensile strength	N/50 mm	MD 135	±25	EN 12311-1
		TD 130	±25	EN 12311-1
Elongation	%	MD 55	±15	EN 12311-1
		TD 60	±15	EN 12311-1
Water tightness	Class	W1		EN 1928, Method A
Classification	Underlay for discontinued roofing – EN 13859-1			
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