


# MONARFOL® 145 Plus

## Application:

The Monarfol 145 Plus product is an underlay for discontinued roofing for used in application on pitched roofs over rafters in ventilated roof constructions only.

## Properties:

The Monarfol 145 Plus has an extreme high nail and tensile strength due to its reinforcing grid. The product is ageing resistant to UV and IR and further resistant to common occurring alkaline.

Product data				
Built-up Top side Reinforcing Bottom side	PP (Polypropylene) coated top film 8 x 8 mm PP (Polypropylene) reinforcing grid PP (Polypropylene) spun bond, which is hydrophilic			
Colour	Transparent/White			
Weight	145 g/m <sup>2</sup> - 5% / + 10%			
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 and joints must be sealed with suitable tape our sealer. The minimum pitch angle must be no less than 20 degrees.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	40,00 & 50,00	+1% / 0%	EN 1848-2
Width	m	1,50 & 3,00	+1% -½%	EN 1848-2
Thickness	mm	0,24	±25%	EN 1849-2
Tensile strength	N/50 mm	MD 500	±60	EN 12311-1
		TD 400	±60	EN 12311-1
Elongation	%	MD 15	±5	EN 12311-1
		TD 15	±5	EN 12311-1
Nail tear resistance	N	MD 410	±60	EN 12310-1
		TD 330	±60	EN 12310-1
Dimensional stability	%	MD Max 2		EN 1107-2
		TD Max 2		EN 1107-2
Temperature range	°C	- 40°C to +80°C		
Cold bend	°C	-20 Min		
Sd value	m	50	±10	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 420	±60	EN 12311-1
		TD 370	±60	EN 12311-1
Elongation	%	MD 15	±8	EN 12311-1
		TD 10	±8	EN 12311-1
Water tightness	Class	W1		EN 1928, Method A
Classification	Underlay for discontinued roofing – EN 13859-1			
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