


**Application:**

The Monarperm 500 product is a diffusion open underlay for discontinued roofing for used in application on pitched roofs over rafters in ventilated and non ventilated roof constructions or as underlay for walls.

**Properties:**

The Monarperm 500 product has a high water vapour resistance even though it is very diffusion open. The product is ageing resistant to UV and IR and therefore has 3 months free exposure.

<b>Product data</b>				
Built-up				
Top side	PP (Polypropylene) spun bond			
Middle layer	PP (Polypropylene) micro porous film			
Bottom side	PP (Polypropylene) spun bond			
Colour	Blue/White			
Weight	120 g/m <sup>2</sup> -5% / +15%			
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.			
<b>Technical data</b>	<b>Unit</b>	<b>Value</b>	<b>Tolerance</b>	<b>Test method</b>
Length	m	50,00	+1% -0%	EN 1848-2
Width	m	1,00 / 1,50	+1,5% -½%	EN 1848-2
Thickness	mm	0,45	±25%	EN 1849-2
Tensile strength	N/50 mm	MD 200	±15%	EN 12311-1
		TD 120	±15%	EN 12311-1
Elongation	%	MD 35	±30%	EN 12311-1
		TD 55	±30%	EN 12311-1
Nail tear resistance	N	MD 100	±20%	EN 12310-1
		TD 100	±20%	EN 12310-1
Dimensional stability	%	MD -0,5	±1	EN 1107-2
		TD -0,5	±1	EN 1107-2
Temperature range	°C	- 40°C to +80°C		
Cold bend	°C	-25	±1°C	EN 1109
Sd value	m	0,03	-0,01/+0,02	EN 12572, Mod. C
Water tightness	Class	W1		EN 1928
Fire classification	Class	E		EN 13501-1
<b>Ageing after EN 1297 &amp; EN 1296</b>				
Tensile strength	N/50 mm	MD 170	±20%	EN 12311-1
		TD 100	±20%	EN 12311-1
Elongation	%	MD 20	±30%	EN 12311-1
		TD 35	±30%	EN 12311-1
Water tightness	Class	W1		EN 1928
Classification	Underlay for discontinued roofing – EN 13859-1 Underlay for walls – EN 13859-2			
				Monarflex a/s Lyskær 10, DK-2730 Herlev, Denmark  06 / 07