

Gridline 500 Specification

LDPE Geomembrane.

Product data	Monarflex® Gridline 500			
Composition:				
Top layer	Black LDPE blown film			
Coater layer	Black LDPE			
Grid layer	Grid, 12x12mm, 1100 dtex, polyester			
Bottom layer	Black LDPE blown film			
Colour	Black			
Application	100 -150 mm overlapping and either sealed with double-sided butyl tape or welded.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25	+1.5% -0.5%	EN 1848-2
Width	m	2 or 4	+/-2%	EN 1848-2
Thickness	mm	0,5	+/- 10%	EN 1849-2
Weight	g/m ²	495	+/- 5%	EN 1849-2
Weight per roll	kg	50/200		EN 1848-2
Tensile strength	kN/m	MD: 7.5 CD: 7.5		EN 12311-2
Elongation	%	MD: 15-20 CD: 15-20		EN 12311-2
Water tightness	kPa	20		EN 1928, Method B
Dimensional stability	%	Max 2	-0.9 / -0.1%	EN1107-2
Sd value	m	>100	±50	EN 1931
Water vapour permeability	kg/(m ² .s)	2.0x10 ⁻⁹	0.5 x 10 ⁻⁹	EN 1931
Tear resistance	N/mm ²	188		EN 12310-1
Resistance to static loading	N	Pass at 200N		EN 12730, Method B
Temperature range	°C	-40 to 80		
Puncture resistance	N	180		FTMS-101C
Cold flexibility	°C	Pass at -20°C		MFX test
Bitumen compatibility	Pass/Fail	Pass class W1		EN 1548
Joint strength, tape	N/50mm	>60 N		EN 12317-2
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