

Monarflex Gridline 500, 750 & 1000 Technical Data Sheet

MONARFLEX® Geo-membranes are used in civil engineering works either for separation of different layers of material, for preventing fluids like water, chemicals or the gases in undermining the structure of the construction.

Geo-membranes can be used for:

- separation layer for the structure of roads, bridges, tunnels, railways etc.
- protection of the ground water from percolation from landfills.
- environmental protection from chemicals from petrol stations and chemical industries as a secondary layer.
- sealing of fertilizer tanks, water reservoirs, waste water lakes, rain water lagoons
- landfill capping and vertical barriers
- gas membranes, radon protection membranes

Application

The **MONARFLEX® Gridline 500, 750 & 1000** reinforced membrane is a geo and moisture barrier to be used over the foundation of houses and buildings, separating different material, preventing water from penetrating etc.

Product Range	500		750		1000	
Roll Size	4m x 25m	4m x 100m	4m x 25m	4m x 100m	4m x 25m	4m x 100m
Weight (kg)	50kg	200kg	70kg	300kg	100kg	400kg
Product Code	13884	13885	13888	13889	13896	13897
Material	Black LDPE blown film Black LDPE 12 x 12mm polyester grid 1100 dtex Black LDPE blown film		Black LDPE blown film Black LDPE 12 x 12mm polyester grid 1100 dtex Black LDPE blown film		Black LDPE blown film Black LDPE 12 x 12mm polyester grid 1100 dtex Black LDPE blown film	
Colour	Black		Black		Black	
Gross Weight	500g/m ² (EN1849-2)		780g/m ² (EN1849-2)		950g/m ² (EN1849-2)	
Thickness	0.5mm		0.75mm		1.1mm	
Tensile Strength	7.5kN/m (EN12311-2)		8.9kN/m (EN12311-2)		15.0kN/m (EN12311-2)	
SD Value	100m		150m		>150m	
Water Vapour Transmission	2.5x10 ⁻⁹ (m ² .s.Pa)/kg (EN1931)		2.0x10 ⁻⁹ (m ² .s.Pa)/kg (EN1931)		1.5x10 ⁻⁹ (m ² .s.Pa)/kg (EN1931)	
Tear Resistance	188N (EN12310-1)		300N (EN12310-1)		300N (EN12310-1)	
Resistance to Static Loading	Pass @ 200N (EN12730-B)		Pass @ 200N (EN12730-B)		Pass @ 200N (EN12730-B)	
Puncture Resistance	180N (FTMS-101C)		230N (FTMS-101C)		270N (FTMS-101C)	

Health and Safety

Monarflex Gridline

Health and safety data sheets are available for all materials. Please go to monarflex.com.au for more information.

Quality Assurance

Monarflex® Geomembranes are supplied under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.

Construction

