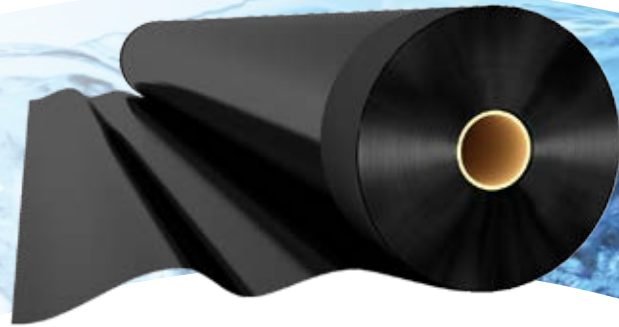


## Geomembrane

Weldable Waterproof SuDS Membrane

**Product Code: SELH05001**



### Design

Hydro WMS Geomembrane is a robust, weldable, single layer, cold applied polypropylene geomembrane suitable for sustainable drainage installations, environmental protection to structures, containments and cut-off trenches.

Polypropylene combines excellent chemical resistance with low flexural modulus to provide a malleable, flexible membrane suitable for non-smooth surfaces and factory prefabrication to optimise on site installation.

### Roll Sizes

Standard roll size 6 or 3m wide by 100m long  
Cut sections available on request

### Construction Acceptability

Before laying check that construction allows membrane continuity to be maintained.

### Laying Membrane

Membrane may be prefabricated into panels where appropriate to suit site requirements and should be installed by qualified operatives laid strictly in accordance with manufacturers recommendations.

Apply membrane firmly to substrate ensuring that trapped air is removed as application proceeds.

Overlap and bond consecutive sheets as specified using recommended hot joint or adhesive jointing methods to ensure full bonding at laps. When temperature is 4°C and falling a hot air pre-heat system of welding shall be adopted.

Property	Value	Test Method
Thickness mm (+/- 10%)	1.0	ASTM D-751
Density g/cm <sup>3</sup> Min	0.9	ASTM D-792
Tensile Stress @ Break (Min N/mm <sup>2</sup> )	18	ASTM D-638
Elongation@ Break %	> 700	ASTM D-638
Puncture Resistance (Min N)	150	FTMS 101C Method 2065
Tear Resistance (Min N)	60	ASTM D-1004
Dimensional Stability % Change Max	+/- 2.0	ASTM D-1204 (1 Hr @ 100°C)
Stress Crack Resistance	100%	ASTM 5397
Volatile Loss (5% Loss Max)	0.2	ASTM D-1203 Method A
Ozone Resistance	No Cracks	ASTM D-1149
Carbon Black Content	2 - 3 %	ASTM 1603
Moisture Vapour (g/m <sup>2</sup> /day)	< 0.1	ASTM E96
Friction Angle ( Non Woven Geotextile )	21°	Shear Box
Methane Permeability	0.11 g/m <sup>2</sup> /day/atm	European standard
Methane Transmission Rate	1.8 x 10 <sup>-9</sup> m <sup>3</sup> /m <sup>2</sup> /s/atm	BRE
Permeability Coefficient	1.8 x 10 <sup>-12</sup>	
Core Material	Polypropylene	

## Notes

- Application temperature of the membrane shall be greater than 4°C
- Primer not required
- Number of layers : One ( 1 )
- Laps - minimum 50 mm
- Jointing : Shall be formed using fusion or extrusion bead welding in accordance with manufacturers recommendations

## Workmanship Generally

Pre-laying checks : Surface acceptability. Before laying check that substrate surfaces are : -

1. Structurally sound
2. Free from ridges and undulations
3. Surface dry

## Disclaimer

This product specification is neither giving nor implying warranty for the use of this information for design and installation, as these are beyond our control. The data provided is typical and based upon the mean values obtained from the samples taken for any one test. If not otherwise indicated the test procedures reflect usually the mean of five samples. Hydro WMS Limited reserve the right to change the specifications without prior notice. Skeletank® is a trade mark registered by Skeletank Limited.

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