

PAG 10 Geocomposite

consists of a cuspated HDPE (High Density Polyethylene) drainage core former thermally bonded to a geotextile filter.

Properties

Geotextile Type	Non Woven Continuous filament Needle punched & heat treated	
Geotextile material	Polypropylene	
Geotextile Water Flow (l/m ² /sec)	110 at 50mm water head	BSEN ISO 11058
Geotextile pore size (micron)	110	BS EN 12956
Core Material	Single cuspated HDPE (High Density Polyethylene)	
Composite weight /unit area (g/m ²)	735	BS EN 965
Sheet Thickness (mm)	0.6	BS EN 964-1
Dimple height (mm)	10	BS EN 964-1
Dimple Volume (m ³ /m ²)	0.002	
Max surface unevenness (mm/m)	+/- 100	
Aggregate compatibility (mm)	15 (max)	

Performance

Tensile strength (kN/m)	10	BS EN ISO 10319
Elongation (%)	40	BS EN ISO 10319
CBR Puncture resistance (N)	1750	BS EN ISO 12236
Compressive strength (kPa)	125 (without infill)	ASTM D1621(mod)
Compressive strength (kPa)	Equal to concrete when filled	
	HG=1.0	HG=0.1
Water Flow capacity (l/m.sec)	4.0	1.0
Clear Void area (mm ² /m)		BS EN ISO 11058
Air Volume (litres/m ²)	7.7	5325
Water vapour permeability (g/m ² .h.Pa)	1.6 x 10 ⁻⁶	
Expansion coefficient (mm/mdegC)	0.11	
Thermal resistance	Uvalues for specified construction available on request	
Resistance to weathering	To be covered in 14 days	BS EN 12224
Life expectancy of polymers	In excess of 25 years in pH 4 to 9 at 25C	
Working temperature	-20 to 80 deg C	
Impact resistance	Excellent (even at low temperature)	
Chemical resistance	Excellent resistance to common chemicals	
Resistance to microbes	No significant effect	BS EN 14030
Sprayed Concrete	Compatible. Sprayed concrete will stick	
Health, Safety Environment	Inert. No Known Health hazard. No Precautions Necessary.	

Roll Dimensions

Width (m)	0.92 - 1.7 - 2.7 - 3.6 - 4.5
Length (m)	25 or 50 according to width
Weight (kg / m ²)	1.03
Overlap allowance (%)	2.5
Wastage allowance (%)	1
Geotextile flap (mm)	200 (extra over core width)

Notes

- (1) In service the life of the material is equal to that of the concrete with which it is used
- (2) The geotextile is bonded to the core to prevent intrusion into the core and blockage of the drainage passage under the action of backfill material
- (3) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time. Unless otherwise stated allowable tolerances are +/-10% of the typical value.
- (4) The above figures have been obtained from statistical interpretation of test results
- (5) Final determination of suitability of any information is the responsibility of the user