



Geomax® - Geocell
Geocellular Confinement System



Geocell confines and stabilises the surface of weak soils by creating a honeycomb of interconnected polymer strips that form pockets to locate and strengthen the infill material. Geocell can be laid over stable steep slopes where the cell walls provide a tensile force increasing the strength of the material and acting as mini weirs to reduce run off velocity and soil loss.

On a slope Geocell is normally secured to the underlying material by frequent pinning, usually with steel pins. Where this is inadvisable or impossible, for instance when installed over a geomembrane, the panels should be secured to a high strength looped geotextile (TW Looped). Using this inexpensive system it is also possible to reduce foundation stone thickness under loaded areas by up to 50%. Earth retaining walls can be formed with horizontal layers of Geocell filled and placed one on another.

Applications include, retaining walls, basal reinforcement, slope stability, tree root protection.

Geocell is a honeycomb structure of polymer strips securely bonded at the joints by ultrasonic welding. It is folded flat for transport and expanded on site. The honeycomb walls of Geocell are solid; the walls of Geocell have a system of perforations which optimises the balance between mechanical and hydraulic performance.



The standard configuration of Geocell panels is a panel 6.0m x 4.0m (nominal) when expanded. The standard Geocell panel is specified by the depth and effective cell diameter. Geocell has excellent chemical resistance to a wide range of chemicals normally found in the ground. We will be pleased to advise on specific substances.

NOTES:

- 1) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes.
- 2) In line with our policy of continuous improvement we reserve the right to make changes without notice.
- 3) Allowable tolerances are + 10% of the typical value.
- 4) The tensile strength of the web panel is inversely proportional

P = Perforated panels / S = Solid Panels

SPECIFICATIONS	GEOCELL 75/240P	GEOCELL 100/300P	GEOCELL 100/240P	GEOCELL 150/300P	GEOCELL 200/300S	GEOCELL 200/300P
Colour	Black					
Material	HDPE (High Density Polyethylene)					
Cell height, mm	75	100	100	150	200	300
Material thickness	240	300	240	300	300	300
Panel size, m, fully expanded	1.2mm	1.2mm	1.2mm	1.2mm	1.2mm	1.2mm
Weld Space	5 x 3.9m	6 x 4m	3.9 x 5m	6 x 4m	6 x 4m	6 x 4m
Junction tensile strength (2) KN.m minimum	1200N	1200N	1200N	1200N	1200N	1200N
Material tensile strength	22KN/m	22KN/m	22KN/m	22KN/m	22KN/m	22KN/m
Panel Weight	24kg	24kg	21kg	36kg	48kg	46kg