

Geomacell S

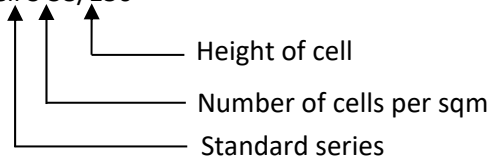
Product specifications



Geocells Geomacell Standard are composed of textured and perforated plastic tapes made of high-density polyethylene (HDPE). A set of tapes with a specific height connected by ultrasonic welding makes up the system similar to a structure of „honeycomb”, which improves the mechanical parameters of aggregate after filling and compacting the aggregate. The spatial structure is designed to optimal transmission of forces, pressures reduction and minimalization of outlays in order to obtain the appropriate ground parameters on the geotechnically difficult substrates or at unregulated ground and water relations.



Example: Geomacell S 38/150



Material	Colour	Material density ¹⁾ [g/cm ³]	Type of tape	Tape thickness [mm]
100% HDPE	Black	0,935 – 0,965	textured a perforated	1,15 (±0,2)

Tensile shear test (Method A) EN ISO 13426-1 [kN]	Peeling test (Method B) EN ISO 13426-1 [kN]	Splitting test (Method C) EN ISO 13426-1 [kN]
13,0	8,0	14,0

Quantity of cells per 1 m ² [pcs/m ²]	Distance between welds at folded position [mm]	Diagonals dimensions of geocell [mm]	Standard section dimensions [m]	Standard section's area [m ²]
39	335	233,3 x 221,7	3,50 x 6,65	23,28
38	340	233,3 x 228,7	3,50 x 6,63	23,21
34	356	250,0 x 234,4	3,50 x 6,56	22,97
32	370	250,0 x 253,9	3,50 x 6,60	23,10
22	445	318,2 x 290,7	3,50 x 6,69	23,40
17	500	350,0 x 336,1	3,50 x 6,72	23,52
14	550	388,9 x 367,2	3,50 x 6,61	23,13
09	680	500,0 x 437,1	3,50 x 6,56	22,95
08	712	500,0 x 482,9	3,50 x 6,76	23,66
07	740	500,0 x 521,2	3,50 x 6,78	23,72

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Height of tape [mm]	Tensile shear test (Method A) EN ISO 13426-1 [kN]	Peeling test (Method B) EN ISO 13426-1 [kN]	Splitting test (Method C) EN ISO 13426-1 [kN]
25	0,325	0,2	0,35
50	0,65	0,4	0,7
75	0,975	0,6	1,05
100	1,3	0,8	1,4
150	1,95	1,2	2,1
200	2,6	1,6	2,8
250	3,25	2	3,5
300	3,9	2,4	4,2

Dimension's tolerances of section: $\pm 5\%$ / Tolerance of strength parameters: -0,2 kN

Durability:

Predicted to be durable for a minimum 100 years in natural soils with $4 < \text{pH} < 9$ and soil temperature $\leq 25^\circ\text{C}$ in compliance with the PN-EN ISO 13438 standard.

It should be covered within 30 days of installation in accordance with PN-EN ISO 12224.

Remarks:

Unless indicated otherwise, values are determined according to the applicable European standards and are valid as of the date of this document. Products are subject to continuous development and improvement and these values may change over time.

In case of requirement the delivery of products with different dimensions or other technical data or in the case of interest of technical consultation please contact technical department by e-mail: technika@geomat.eu.