

INFORMATION ABOUT THE PRODUCT **GEOCELL PINEMA COMFORT 007.75**

DESCRIPTION:

Geocells PINEMA COMFORT 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 minimalisation of outlays in order to obtain the appropriate ground parameters on geotechnically difficult substrates or at unregulated ground and water relations. Geocells PINEMA COMFORT is manufactured as sections with dimensions adjusted to the nature of implementation.

APPLICATION:

An application of geocells system PINEMA COMFORT allows to reduce the roads substructure layers and allows to preservation as well as stabilization of slopes and embankments. The soil or aggregate filling the cells is blocked by the system walls, whereby gaining better compactness. Furthermore ensues the process of mutual wedging of aggregate which positively influences on the inner friction of filler. Appropriately compacted filler together with geocells system PINEMA COMFORT prevents from the irregular settling and reduces the vertical forces. As a result, the thickness of substructure constructional layer is appropriately modified. Moreover application of geocells system PINEMA COMFORT allows to reduce of aggregate’s washout, what relevantly influences on the stabilization and anti – erosive properties of slopes and embankments.

Technical Parameters:

PINEMA COMFORT 007.75	Unit	Value
Raw material	Polyethylene HDPE	
Colour	black	
Density	g/cm ³	0,94
Type of tape	textured, perforated	
Thickness	mm	1,5 (±0,2mm)
Height of tape	mm	75
Distance between welds at folded position	mm	550
Diagonals dimensions of geocell	mm	388,9 x 367,2
Cell’s area	cm ²	714,0
Number of cells per sqm	cell/m ²	14,0
Tensile strength of tape Perforated tape (perforation ≤ 16%) has lower tensile strength; at least 60% of given value is required	kN	1,5
Weld strength at abruption (T type test)	kN	0,83
Weld strength at splitting (X type test)	kN	1,5
Weld strength at shearing	kN	1,58
Elongation	%	10
Standard section dimensions	m	3,50 x 6,61
Section’s area	m ²	23,13

Dimension’s tolerances ±2%

DURABILITY:

Predicted to be durable for a minimum 25 years in natural soils with 4<pH<9 and soil temperature ≤ 25°C. Product has been successfully tested to resistance to oxidation in accordance with PN-EN ISO 13438;PN-EN ISO 527-3.