

Geocell Cellular Confinement System Technical Specifications

Parameter	Standard Range	Premium Options	Test Method
Material	Virgin HDPE	UV-stabilized HDPE	ASTM D792
Sheet Thickness	1.0mm - 2.5mm	3.0mm (heavy-duty)	ASTM D5199
Cell Size (expanded)	150mm - 400mm	100mm (high-density)	ISO 10319
Cell Depth	50mm - 300mm	400mm (special order)	ASTM D4439
Tensile Strength	≥23 MPa (MD)	≥30 MPa (MD+TD)	ISO 527-3
Welding Seam Strength	≥85% base material	≥95% base material	ASTM D4885
Temperature Range	-60°C to +80°C	-70°C to +100°C	ASTM D746
Carbon Black Content	2.0% - 3.0%	3.0% (high UV areas)	ASTM D4218
Perforation Options	10mm/15mm holes	Custom patterns	Client specifications
Roll Dimensions	4m×25m (standard)	6m×50m (industrial)	ISO 9862
Color Options	Black (standard)	Green/Beige (aesthetic)	Pantone matching