

Ecoweb™ Confinement System

Introduction

- The Ecoweb™ Confinement System utilizes a three dimensional honeycomb structure to provide stabilization across a wide variety of applications like erosion control, soil stabilization, load support and earth retention.
- An Ecoweb™ is mainly made with ultrasonically-welded virgin High-Density Polyethylene (HDPE) with Ecloy® Formula that are expanded on-site and filled with sand, soil, rock or concrete, etc.

Application

- Load Support
- Retaining Wall
- Slope Protection
- Channel Protection
- Ground Stabilization

ECOWEB™ Advantage

- Virgin HDPE basic with Unique Ecloy® Formula.
- Ecoweb™ Tensile Strength reaches 33000 kN/m² (33 MPa) due to Ecloy®.
- Ecoweb™ Seam Peel Strength above 16 kN/m. (USACE GL-86-19), Split Strength above 28 kN/m. (EN ISO13426-1 Method C)
- Various weld spacing available from 220mm to 1000mm.
- Various strip height available from 25mm to maximum 300mm.
- Maximum strip length reaches 8m, expanded width reaches 6m.
- Reduce construction thickness, improve load and bearing capacity, long life span, save maintenance cost.
- Easy to transport, all weather installation with high construction speed.
- Local infill materials available, ungraded or recycled materials are acceptable, reduce construction cost.

Contact

- Company: Ecoweb Geocellular Synthetics Co., Ltd. (EGS Geosynthetics)
- Address: No. 241 West Changjiang Road, Chaohu City, P.R. China. 238000
- Tel: 86-551-82388685 Fax: 86-551-82388685
- Email: info@geo-ecoweb.com
- Web-site: www.geo-ecoweb.com

ECOWEB™ GEOCELL

Cell

• Cell Depth	-	50 mm - 300 mm (± 0.5 mm)
• Weld Spacing	-	220 mm - 1000 mm (± 1.0 mm)
• Color	-	Black ● Green ● Sand ●

Property

Property	Test Method	Value
• Material	-	Virgin HDPE basic (Ecloy® Formula)
• Density	ASTM D1505	0.945-0.960 g/cm ³
• Thickness (Smooth)	ASTM D5199	1.20 mm (-5% +10%)
• Thickness (Textured)	ASTM D5199	1.50 mm (-5% +10%)
• Carbon Black	ASTM D1603	≥ 1.5 %
• Seam Peel Strength	USACE GL-86-19	≥ 16 kN/m
• Tensile Strength at Break	ASTM D638	≥ 32000 kN/m ² (TD) / ≥ 30000 kN/m ² (MD)
• Elongation at Break	ASTM D6693	≥ 900 % (TD) / ≥ 480 % (MD)
• Oxidative Induction Time	ASTM D3895	≥ 150 min

Standard Dimension

Nominal Expanded Cell Size	356 mm	445 mm	712 mm
Nominal Section Size	252 mm x 252 mm	315 mm x 315 mm	503 mm x 503 mm
Nominal Section Area	2.52 m x 7.30 m	2.52 m x 9.12 m	2.52 m x 14.60 m
Section Area	18.37 m ²	22.96 m ²	36.74 m ²

Drawing



