



OCTO ENVIROWEB 100MM / 150MM

Cellular soil confinement systems

OCTO ENVIROWEB 100MM / 150MM is a cellular confinement system that uses native fill to stabilize soils for construction, erosion control, landscape applications and to improve traffic mobility over poor soil. **OCTO ENVIROWEB 100MM / 150MM** panels have two dimensional cells that contain, confine and reinforce a variety of fill material. Panels store and are shipped to site in their flattened state, making them easy to transport, handle and install. **OCTO ENVIROWEB 100MM / 150MM** is made from high density polyethylene (HDPE) sheets, giving it excellent resistance to all common elements found in soils and protection against ultraviolet degradation.

OCTO ENVIROWEB 100MM / 150MM is a high performance geocell manufactured from inert polyethylene and ultrasonically bonded to form a cellular confinement system. The interconnected cellular structure provides lateral confinement of various infill materials such as soil, granular material and concrete.

OCTO ENVIROWEB 100MM / 150MM cellular soil confinement system is suitable for stabilizing and vegetating steep barren slopes, increasing the load bearing capacity of subgrades and can be used as a facing system for vertical or steep retaining structures. It is ideal for lining and protecting river channels and bridge piers that are at high risk to soil erosion.



OCTO ENVIROWEB 100MM / 150MM cellular soil confinement system is impervious to the effects of chemicals in the soil or degradation from prolonged exposure to sunlight. It is highly versatile, easy to install and is a cost effective alternative to conventional soil erosion protection or soil retention methods.

Installation

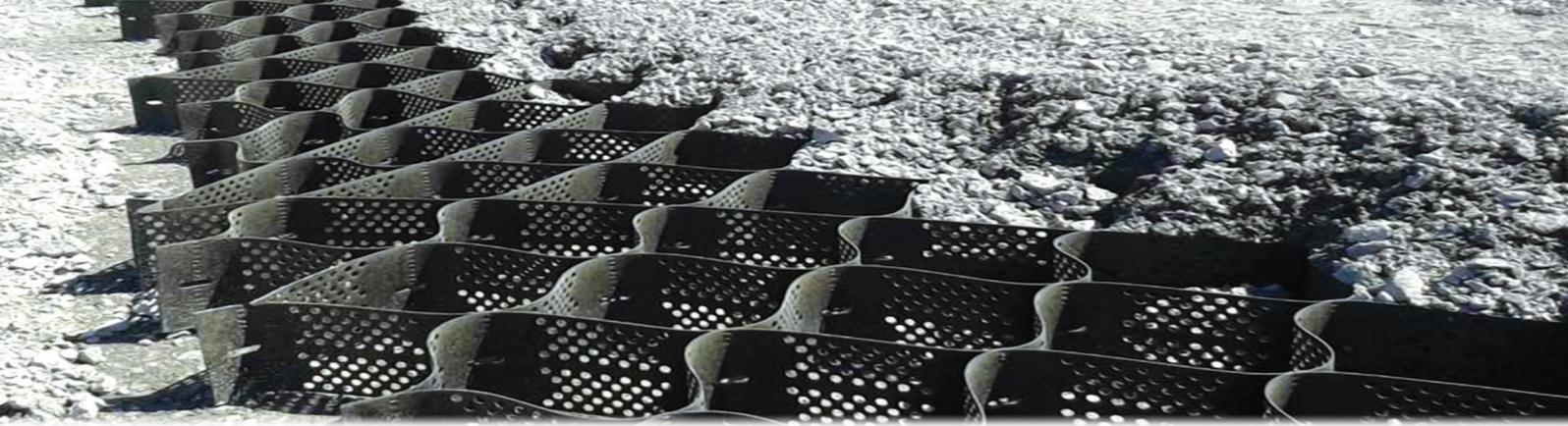
- Prepare subgrade and utilize a non-woven geotextile for separation if needed.
- Secure **OCTO ENVIROWEB 100MM / 150MM** panels at one end with suitable “J” hooks, pounded into solid ground, prior to stretching the panel to its full dimension. Additional hooks or stakes should be placed at regular intervals to ensure the panel retains its shape and finished size.
- Staked panels should be filled using a front-end loader, sprinkling fill into the panel webs. Finish with hand rakes.



OCTO MARKETING PTE LTD UEN No. : 201606892R
📍 15 Yishun Industrial Street 1 #08-20, Win5, Singapore 768091
☎ +65 8820 7616 / +65 9055 1616
✉ sales@octomarketing.com.sg



🌐 <https://www.octomarketing.com.sg>



Properties of OCTO ENVIOWEB 100MM

Cellular Soil Confinement Systems

Cell

• Cell Depth	-	100 mm (±0.5 mm)
• Weld Spacing	-	330 mm (±1.0 mm)
• Color	-	Black

Property

Test Method

Value

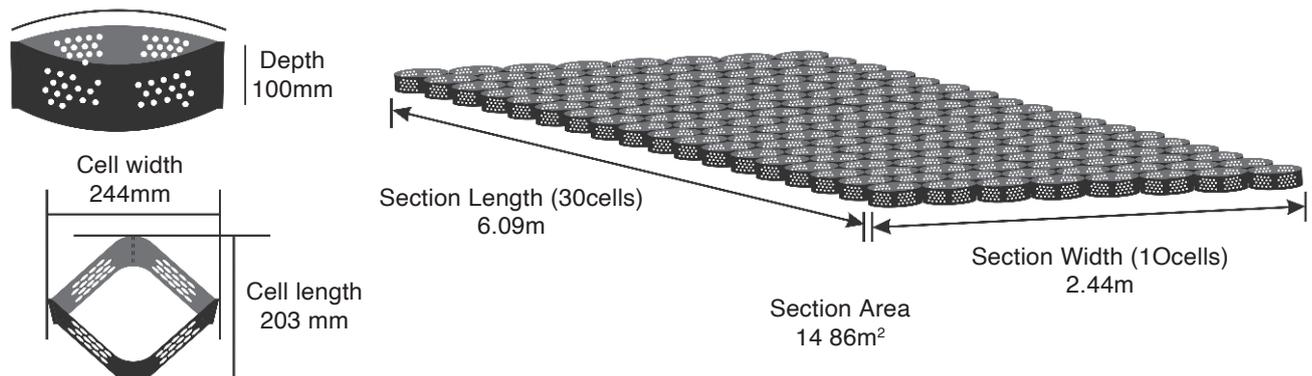
• Material	-	Virgin HDPE basic
• Density	ASTM D1505	0.945-0.960 g/cm ³
• Thickness (Smooth)	ASTM DS5199	1.20 mm (-5% +10%)
• Thickness (Textured)	ASTM DS5199	1.50 mm (-5% +10%)
• Carbon Black	ASTM D1603	≥ 1.5%
• Seam Peel Strength	ISO13426-1(Method B)	≥ 1600 N
• Tensile Strength at Break	ASTM D638	≥ 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

Dimension

• Expanded Cell Size	-	244mm X 203mm
• Section Size	-	2.44m X 6.09m
• Section Area	-	14.86m ²

Drawing

Weld Spacing 330mm





Properties of OCTO ENVIOWEB 150MM

Cellular Soil Confinement Systems

Cell

• Cell Depth	-	150 mm (±1%)
• Weld Spacing	-	330 mm (±0.5%)
• Color	-	Black

Property

Test Method

Value

• Material	-	Virgin HDPE basic
• Density	ASTM D1505	0.940-0.960 g/cm ³
• Carbon Black	ASTM D1603	> 1.5 %
• Peeling Strength	EN ISO 13426-1 Method B	2400 N [16 kN/m](min.avg.)
• Splitting Strength	EN ISO 13426-1 Method C	4500 N [30 kN/m](min.avg.)
• Tensile Strength	ASTM D638	> 25 kN/m
• ESCR	ASTM D1693	> 7000 hrs

Dimension

• Expanded Cell Size	-	244mm X 203mm
• Cell Numbers	-	10 cells (W) x 30 cells (L)
• Section Size	-	2.44 m (W) x 6.09 m (L)
• Section Area	-	14.86 m ² (±10%)

Drawing

Weld Spacing 330mm

