

CELLUAR CONFINEMENT SYSTEM

FEATURING TENAX TENWEB 4/300

TENAX TENWEB 4/300 geocells are honeycomb three dimensional structures, made of polyethylene using a single continuous extrusion process. TENAX TENWEB 4/300 can be transported and stocked in a very compact form, and expanded like and accordion at the job site. TENAX TENWEB 4/300 has interconnected openings to ensure that organic material receives moisture for rapid growth. Once expanded and soil filled, TENAX TENWEB 4/300 becomes dimensionally stable and provides an effective confinement for loose materials placed in each single cell.

TYPICAL APPLICATIONS

- Erosion Control of Slopes
- Embankments
- Shorelines
- Base Stabilization for Roads and Parking Areas

PHYSICAL CHARACTERISTICS	DATA
Structure	three dimensional honeycomb
Mesh type	about hexagonal
Standard color	green
Polymer type	polyethylene
U.V stabilizer	yes

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNITS	VALUE	NOTES
Cell depth		inch (mm)	4 (100)	a
Nominal cell area		inch ² (mm ²)	113 (70,685)	a
Cell inner diameter		inch (mm)	12 (300)	a
Cell wall thickness	ASTM D 5199	mils (mm)	40 (1.0)	a
Panel unit weight		oz/yd ² (kg/m ²)	32.5 (1.1)	a
Expanded panels width		ft (m)	16.4 (5.0)	a
Expanded panels length		ft (m)	32.8 (10)	a
Covered surface		ft ² (m ²)	538 (50)	a
Compacted panel weight		lbs (kg)	90.3 (41)	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNITS	VALUE	NOTES
Peak tensile strength	ASTM D 4595	lbs/strip (kN/strip)	270 (1.20)	b,c
Peak tensile elongation	ASTM D 4595	%	15	a,c
Junction tensile shear strength		lbs/junction (kN/junction)	180 (0.80)	b,c
Junction tensile peel strength		lbs/junction (kN/junction)	78.7 (0.35)	b,c

NOTES:

a: Typical values

b: Minimum values

c: Test performed at constant rate of 300 mm/min

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