

TENWEB 300

Cellular Confinement System

Type: 3 - 4

TENAX TENWEB 300 geocells are honeycomb three dimensional structures, made of polyethylene using a single continuous extrusion process. TENAX TENWEB 300 can be transported and stocked in a very compact form and expanded like an accordion at the job site. TENAX TENWEB 300 has interconnected openings to ensure that organic materials receive moisture for rapid growth. Once expanded and soil filled, TENAX TENWEB 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	Test Method	Unit	Data	Notes
Structure			Three Dimensional Honeycomb	
Mesh Type			Hexagonal	
Standard Color			Green, Black	
Polymer Type			Polyethylene	
U.V. Stabilizer			Yes	

Dimensional Characteristics	Test Method	Unit	TENWEB 3/300	TENWEB 4/300	Notes
Cell Height		in (mm)	3 (75)	4 (100)	a
Cell Inner Diameter		in (mm)	12 (300)	12 (300)	a
Cell Wall Thickness	ASTM D 5199	mils (mm)	40 (1)	40 (1)	a
Expanded Panels Width		ft (m)	16.4 (5)	16.4 (5)	a
Expanded Panels Length		ft (m)	32.8 (10)	32.8 (10)	a
Covered Surface		ft ² (m) ²	538 (50)	538 (50)	a
Compacted Panel Weight		lbs (kg)	90.3 (41)	123.5 (56)	a
Number of Panels on Pallet		panel	12	9	a

Technical Characteristics	Test Method	Unit	TENWEB 3/300	TENWEB 4/300	Notes
Peak Tensile Strength	ASTM D 4595	lbs/strip (kN/strip)	270 (1.20)	270 (1.20)	b,c
Peak Tensile Elongation	ASTM D 4595	%	15	15	a,c
Junction Tensile Shear Strength		lbs/junction (kN/junction)	180 (0.80)	180 (0.80)	b,c
Junction Tensile Peel Strength		lbs/junction (kN/junction)	78.7 (0.35)	78.7 (0.35)	b,c

Notes

- a. Typical Values
- b. Minimum Values
- c. Tests performed at constant rate of 300mm/min

The Tenax laboratory has been operational since 1980 and has continuously improved with the purpose of assuring unequalled technical development of products and accurate Quality Control.

The Tenax Laboratory can perform mechanical tests, hydraulic tests and durability tests, according to the most detailed and important international standards like: ISO, CEN, ASTM, DIN, BSI, UNI.

