

TENAX TENWEB 3/200 and 3/300

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

TYPICAL APPLICATIONS

Erosion control of slopes, embankment, lake and river banks; base stabilization for roads and parking areas.

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

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TENWEB 3/200	TENWEB 3/300	NOTES
Cell inner diameter		inch (mm)	8 (200)	12 (300)	a
Cell height		inch (mm)	3 (75)	3 (75)	a
Cell wall thickness	ASTM D5199	mils (mm)	40 (1.0)	40 (1.0)	a
Panel unit weight		Oz/yd ² (kg/m ²)	33.9 (1.15)	23.6 (0.80)	a
Expanded panels width		ft (m)	11.5 (3.50)	16.4 (5.0)	a
Expanded panels length		ft (m)	32.8 (10)	32.8 (10)	a
Covered surface		ft ² (m ²)	376.8 (35)	538 (50)	a
Compacted panel weight		lb (kg)	90.3 (41)	90.3 (41)	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TENWEB 3/200	TENWEB 3/300	NOTES
Peak tensile strength	ASTM D4595	lb/ strip (kN/strip)	270 (1.20)	270 (1.20)	b,c
Peak tensile elongation	ASTM D4595	%	15	15	a,c
Junction tensile shear strength		lb/ junct (kN/junct)	180 (0.80)	180 (0.80)	b,c
Junction tensile peel strength		lb/ junct (kN/junct)	78.7 (0.35)	78.7 (0.35)	b,c

NOTES:

a: Typical values

b: Minimum values

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