

August 12, 2020

TRANSMITTAL

Project Project	Name: No.:	DCI Lee's Summ 20180111	it			
We are	sending	the following:				
	Letter			Drawings		Contract
	Chang	ge Order		Computer Disk		Specifications
\boxtimes	Other	Other (Shop Drawing Submittal)				
Via:						
	Mail			Courier		Overnight
Purpos	e:					
	Appro	val		Your Use	\boxtimes	Your Records
	Review	w & Comment		As Requested		Bids Due
DESCRIPTION						SETS
Data-Sheet-TENAX-LBO-302					1	

Remarks:

Submittal Revie	ew.	
Project Name:		DCI Lee's Summit
Project Number	.	20180111
Submittal ID:		Data-Sheet-TENAX-LBO-302
Received On:		08/12/2020
Reviewed On:		08/12/2020
Reviewed By:		Chandler Walker
Action:	Reviewed	
This review is only information given ir made on the shop from compliance w applicable laws, co include review of Contractor is respo the jobsite; informa the means, met construction; coord performing all Work	tor general conformation of the Construction D drawings during this with the requirements des, and regulations an assembly of whore the second of the the terms of the insible for: dimension that pertains so hods, techniques, dination of the Work in a safe and satisfation of the Work in the terms of the terms of the Work in the terms of the terms of the terms of ter	ance with the design concept and the ocuments. Corrections or comments is review do not relieve the Contractor is of the plans and specifications and s. Review of a specific item shall not hich the item is a component. The ns to be confirmed and correlated at lely to the fabrication processes or to sequences and procedures of rk with that of all other trades and actory manner.



LBO 302 Type 2 Biaxial Geogrid

TENAX LBO 302 is a polypropylene geogrid especially designed for soil stabilization and reinforcement applications. LBO 302 geogrids are manufactured from a unique process of extrusion, and punched and drawn to biaxial orientation to enhance tensile properties. TENAX LBO 302 geogrids feature consistently high tensile strength and modulus, excellent resistance to construction damage, and environmental exposure.

Typical Applications:

Soft soil stabilization, base reinforcement, embankments over soft soils, working platforms, haul roads

PRODUCT PROPERTIES

Technical Characteristics	Units	MD Values ¹	XMD Values ¹
Aperture Dimensions ²	mm (in)	28 (1.10)	38 (1.49)
Minimum Rib Thickness ²	mm (in)	1.27 (0.05)	1.27 (0.05)
Tensile Strength @ 2% Strain ³	kN/m (lb/ft)	6.0 (410)	9.0 (620)
Tensile Strength @ 5 % Strain ³	kN/m (lb/ft)	11.8 (810)	19.6 (1,340)
Ultimate Tensile Strength ³	kN/m (lb/ft)	19.2 (1,310)	28.8 (1,970)

STRUCTURAL INTEGRITY

Junction Efficiency⁴	%	93
Flexural Stiffness ⁵	mg-cm	750,000
Aperture Stability ⁶	m-N/deg	0.65

DURABILITY

Resistance to Installation Damage ⁷	%SC/%SW/%GP	95/93/90
Resistance to Long Term Degradation ⁸	%	100
Resistance to UV Degradation ⁹	%	100

DIMENSIONS AND DELIVERY

The biaxial geogrid shall be delivered to the job site in roll form with each roll individually identified and nominally measuring 4m (13.1-FT) or 4.87m (16-FT) in width and 50m (164-FT) in length.

Notes

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02.

2. Nominal dimensions.

- 3. Tensile Strength is determined in accordance with ASTM D6637-10 Method A.
- 4. Load transfer capability determined in accordance with ASTM D7737-11.
- 5. Resistance to bending force determined in accordance with ASTM D7748-12, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs, and of length sufficiently long to enable measurement of the overhang dimension.
- 6. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9-IN x 9-IN specimen restrained at its perimeter in accordance with US Army Corps of Engineers Methodology for measurement of torsional rigidity.
- 7. Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress om clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D5818-06 and load capacity shall be determined in accordance with ASTM D6837.
- 8. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
- 9. Resistance to loss of load capacity or structural integrity when subjected to ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

Tenax warrants that the geogrid products delivered hereunder conform to the stated specification at the time of delivery. All other warranties including claims for performance or suitability for application are excluded. This product specification supersedes all prior specifications for the product described above and is not applicable for products shipped before November 2014.





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