

DATA SHEET

Soleno Textile SBX12

PRODUCT DESCRIPTION : It's a polypropylene geogrid product that is intergrally formed into a biaxial geogrid. It can resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.

FUNCTION : Reinforcement

RAW MATERIAL : Polypropylene

TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES	
			Metric	Imperial
PHYSICAL	Aperture size ⁽²⁾	-	25 mm x 33 mm	1.0 in x 1.3 in
	Minimum rib thickness ⁽²⁾	-	1.27mm x 1.27mm	0.05 in x 0.05 in
MECHANICAL	Ultimate tensile strength ⁽³⁾	ASTM D6637-01	19.2 x 28.8 kN/m	1310 x 1970 lb/ft
	Tensile strength. at 2 % strain ⁽³⁾	ASTM D6637-01	6 x 9 kN/m	410 x 620 lb/ft
	Tensile strength. at 5 % strain ⁽³⁾	ASTM D6637-01	11.8 x 19.6 kN/m	810 x 1340 lb/ft
	Junction Efficiency ⁽⁴⁾	GRI-GG2	93%	
	Flexural Stiffness ⁽⁵⁾	ASTM D5732	750 000 mg-cm	
	Aperture stability ⁽⁶⁾	-	0.65 m-N/deg	
	Resistance to Installation Damage ⁽⁷⁾	ASTM D4637	95%SC/93%SW/90%GP	
PERFORMANCE AND DURABILITY	Resistance to Long Term Degradation ⁽⁸⁾	-	100%	
	UV resistance (500 hours) ⁽⁹⁾	ASTM D4355	100%	
DIMENSIONS	Standard width	-	3.8 m	12.5 ft
	Standard length	-	50 m	164 ft

NOTE 1 : Unless notified otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.

NOTE 2 : Nominal dimensions.

NOTE 3 : True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637-01 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement so as to overstate tensile properties.

NOTE 4 : Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.

NOTE 5 : Resistance to bending force determined in accordance with ASTM D5732-01, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension.

NOTE 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 inch x 9 inch specimen restrained at its perimeter in accordance with the U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.

NOTE 7 : Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in 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 D6637-01.

NOTE 8 : Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.

NOTE 9 : Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

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APPLICATIONS : Temporary roadway	Storage and loading areas
Permanent public roadway	Roadway widening
Permanent private roadway	Airport runways
Public access road	Railway track
Commercial parking areas	