

StrataBase

StrataBase geogrid is an internally formed biaxial geogrids which is especially designed for soil stabilization and reinforcement applications. It is manufactured from polypropylene, by process of extruding then stretching in both machine and cross machine directions. It features high tensile strength at low strain in both machine (MD) and cross machine (CD) directions and provides excellent structural stability and mechanical interlock performance.



Applications

Base Reinforcement Subgrade Reinforcement Secondary Reinforcement Embankment Stabilization

		Unit	SB2020	SB3030	SB4040	SB5050
INDEX PROPERTIES						
Polymer			Extruded Polypropylene (PP)			
Ultimate Tensile Strength ³ (ISO 10319)	MD	kN/m	20.0	30.0	40.0	50.0
	CD	kN/m	20.0	30.0	40.0	50.0
Tensile Strength at 2% strain ³ (ISO 10319)	MD	kN/m	7.0	10.5	14.0	17.5
	CD	kN/m	7.0	10.5	14.0	17.5
Tensile Strength at 5% strain ³ (ISO 10319)	MD	kN/m	14.0	21.0	28.0	35.0
	CD	kN/m	14.0	21.0	28.0	35.0
Aperture Dimension ² (Caliber)	MD	mm	40	40	38	34
	CD	mm	40	40	38	34
Rib Thickness ² (ASTM D 1777)	MD	mm	1.5	2.4	3.0	3.7
	CD	mm	0.7	1.0	1.0	1.6
Rib Width ²	MD	mm	2.3	2.4	2.6	2.6
	CD	mm	3.1	3.7	4.5	4.5
STRUCTURAL INTEGRITY						
Junction Efficiency ⁴ (GRI - GG2)		%	≥95	≥95	≥95	≥95
DURABILITY						
Resistance to UV Degradation ⁵ (ASTM D 4355)		%	100	100	100	100
DIMENSIONS AND DELIVERY						
Roll Width ²		m	3.9	3.9	3.9	3.9
Roll Length ²		m	51.3	51.3	30.8	30.8

Notes:

- Nominal dimensions or values, unless otherwise noted
- Determined in accordance with ISO 10319
- Load transfer capacity between node and tensile ribs expressed as percentage of ultimate tensile strength
- Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D 4355
- MD= machine direction/ CMD= cross machine direction
- The above values are subject to change as per discretion of the company.

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