

BIAXIAL GEOGRID

SKAPS BX1100



Product Type: Integrally Formed Biaxial Geogrid

Polymer: Polypropylene

| Index Properties | Test Method | UoM | MD x XMD Value ¹ |
|--|---------------------------------|-----------------|------------------------------|
| Aperture Dimensions ² | Direct Measurement ² | mm (in) | 25 x 33 (1.0 x 1.3) |
| Rib Thickness ² | Direct Measurement ² | mm (in) | 0.76 x 0.76 (0.03 x 0.03) |
| Tensile Strength @ 2% Strain ³ | ASTM D6637M-15 | kN/m (lb/ft) | 4.1 x 6.6 (280 x 450) |
| Tensile Strength @ 5% Strain ³ | ASTM D6637M-15 | kN/m (lb/ft) | 8.5 x 13.4 (580 x 920) |
| Ultimate Tensile Strength ³ | ASTM D6637M-15 | kN/m (lb/ft) | 12.4 x 19.0 (850 x 1,300) |
| Structural Integrity | Test Method | UoM | Value ¹ |
| Junction Efficiency ⁴ | ASTM D7737/D6637 | % | 93 |
| Flexural Stiffness ⁵ | ASTM D7748 | mg-cm | 250,000 |
| Aperture Stability ⁶ | GRI-GG9 ⁴ | m-N/deg | 0.32 |
| Durability | Test Method | UoM | Value ¹ |
| Resistance to installation damage (SW/SP/GP soil) ⁷ | ASTM D6637-01 | % | 95 / 93 / 90 |
| Resistance to long-term degradation ⁸ | ASTM D6637-01 | % | 100 |
| Resistance to UV degradation ⁹ | EPA9090A | % | 100 |

Packaging

| | |
|-------------------------|---------------------|
| Roll Dimensions (W x L) | 150" x 328' |
| Area Per Roll | 455.56 Square Yards |

Note

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02
2. Nominal dimensions
3. 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/D7748M-14.
6. Resistance to in-plane rotational movement measured in accordance with ASTM D7864/D7864M-15. inch specimen restrained at its perimeter in accordance with GRI GG9.
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 D5818 and load capacity shall be determined in accordance with ASTM D6637.
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 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

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