



GUX Geogrid

Product Type: Integrally Formed Biaxial Geogrid
Polymer: High Density Polypropylene
Load Transfer Mechanism: Positive Mechanical Interlock
Primary Applications: (W) Segmental Block Walls, Panel Walls, Welded Wire Walls (S) Reinforced Slopes, Embankments, Temporary Walls

| PROPERTY | UNIT | GUX-11S | GUX-11W | GUX-14S | GUX-14W | GUX-15S | GUX-15W | GUX-16S | GUX-16W | GUX-17S | GUX-17W | GUX-18S |
|--|-----------------------|-------------------------------------|---------|---------|---------|-----------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| <input type="checkbox"/> Index Properties | | | | | | | | | | | | |
| Tensile Strength @5% Strain | lbs/ft | 1850 | 1850 | 2130 | 2130 | 3560 | 3560 | 3980 | 3980 | 5140 | 5140 | 6510 |
| Ultimate Tensile Strength | | 3970 | 3970 | 4800 | 4800 | 7810 | 7810 | 9870 | 9870 | 11,990 | 11,990 | 14,390 |
| Junction Strength | | 3690 | 3690 | 4520 | 4520 | 7200 | 7200 | 9250 | 9250 | 10,970 | 10,970 | 12,340 |
| Flexural Stiffness | mg-cm | 500,000 | 500,000 | 730,000 | 730,000 | 5,100,000 | 5,100,000 | 6,000,000 | 6,000,000 | 9,075,000 | 9,075,000 | 9,500,000 |
| <input type="checkbox"/> Durability | | | | | | | | | | | | |
| Resistance to Ling Term Degradation | % | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Resistance to UV Degradation | | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| <input type="checkbox"/> Load Capacity | | | | | | | | | | | | |
| Maximum Allowable (Design) Strength for 120-year Design Life | lbs/ft | 1450 | 1450 | 1760 | 1760 | 2860 | 2860 | 3620 | 3620 | 4390 | 4390 | 5080 |
| <input type="checkbox"/> Recommended Allowable Strength Reduction Factors | | | | | | | | | | | | |
| Minimum Reduction Factor for Installation Damage (RF _{ID}) | | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| Reduction Factor for Creep for 120-year Design Life (RF _{CR}) | | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 |
| Minimum Reduction Factor for Durability (RF _D) | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| <input type="checkbox"/> Roll Sizes Available | | | | | | | | | | | | |
| | ft yd ² | 4.36x250 121.11 yds ² | | | | | 4.36x200 96.88yds ² | | | | | |

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 12-01-17 and are subject to change without notice.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.