

Geogrid Secugrid® 20/20 Q1



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Secugrid® geogrids are the next generation of geogrids produced with state of the art manufacturing technology, unlike any other geogrid on the marketplace today. The reinforcement element is a highly oriented polypropylene strap that is extruded and drawn to achieve high modulus and strength at low elongations. This is combined with NAUE patented vibratory welding technology to provide a structurally sound and stable geogrid.

The following table lists properties of *Secugrid*® 20/20 Q1 Geogrid

| Property | Test Method | Units | md | cmd |
|---------------------------------------|-------------------------------|---------------------------|--------------------------------------|----------------------|
| Polymer Type Structure pH range | | | PP welded straps 2-13 | |
| Tensile strength | | | | |
| Ultimate | ASTM D 6637 | kN/m lbs/ft | 24 1,646 | 24 1,646 |
| Elongation @ ultimate* | ASTM D 6637 | % | 8 | 8 |
| Strength @1% | ASTM D 6637 | kN/m lbs/ft | 5 343 | 5 343 |
| Strength @2% | ASTM D 6637 | kN/m lbs/ft | 8 549 | 8 549 |
| Strength @5% | ASTM D 6637 | kN/m lbs/ft | 15 1,029 | 15 1,029 |
| Installation damage retained strength | ASTM D 6637 | | >91% | >91% |
| Modulus | | | | |
| Tensile modulus @1%* | | kN/m lbs/ft | 500 34,300 | 500 34,300 |
| Tensile modulus @ 2%* | | kN/m lbs/ft | 400 27,450 | 400 27,450 |
| Geometry* Aperture size* | Micrometer | mm Inches | 33 1.29 | 33 1.29 |
| Structural integrity | | | | |
| Flexural rigidity* | ASTM D 1388 | mg-cm | 250,000 | 250,000 |
| Junction strength* | GRI-GG2 | kN/m lbs/ft | 8 549 | 8 549 |
| Aperture stability* | Kinney (COE) | kg-cm/deg | 3.3 | |
| Durability | | | | |
| UV Resistance* | EN ISO 12224 | % | 95% | |
| Resistance to Long Term Degradation | EPA 9090 Immersion Testing | | 100% | 100% |
| Roll Properties | | | | |
| Roll Dimensions* | | meters / ft | 4.75 x 100 / 15.58 x 328 | |
| Roll Area* | | sq. mtrs / sq. yds | 475 / 568 | |
| Roll weight* | | kg / lbs | 80 / 177 ** | |

MARV values shown unless otherwise indicated * Nominal value **The weight of the core may vary about approx. ± 2 kg / 4.4 lbs

The above mentioned technical values are average values over the roll width. These data are guiding values achieved in our laboratories and/or independent testing institutes. Our products can be subject to changes without prior notice.

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