



ZeGRID™ BFRP Reinforcing Mesh is an eco-friendly, stronger and lighter weight alternative for traditional welded wire mesh and other secondary steel reinforcement products.

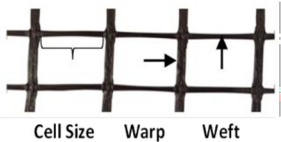
ZeGRID™ has been engineered with high tenacity basalt fiber and an alkali resistant coating for enhanced bonding in most every cementitious application, to include FRCM mortar work, asphalt, all types of precast concrete, SOG & flatwork, non-load bearing concrete, and for reinforcing road and highway overlays to prolong the pavement lifespan by reducing the effects of reflective cracking caused by traffic loading, age hardening and temperature cycling – even reducing the thickness of asphalt concrete pavement by up to 20%.

The advanced tensile strength of ZeGRID is superior to e-glass and typical secondary steel products. For greater surface performance, it can be used closer to the top of a slab or edge of a precast product with reduced coverage because ZeGRID is 100% RUST PROOF and will never corrode or rot. This is where ZeGRID also provides increased impact resistance while preventing the propagation of micro cracks in both width and spread. ZeGRID is also moisture and chemical resistant, with an extremely low coefficient of heat conductivity, which significantly reduces heat transfer from building exteriors to interiors – improving energy efficiency.

ZeGRID™ is available in four standard window™ cell sizes: 20mm x 20mm, 25mm x 25mm, 38mm x 38mm and 50mm x 50mm, and is also available in a scrim. Custom sizes and mesh densities are easily produced and can be made available upon request.

| THERMAL PROPERTIES | | SINGLE FILAMENT TOW PROPERTIES (Comparison under ASTM 2101) | | | |
|-------------------------------------|---------------|---|------------|-----------|-----------|
| | | CHARACTERISTIC | G-Grid | E-Glass | AR Glass |
| Basalt Density (g/cm ³) | 2.67 | Tensile Strength (Mpa) | 4000-4300 | 3450-3700 | 3500-3900 |
| Melting Range (C°) | 1460 - 1500 | Tensile Modulus (Gpa) | 86-90 | 72-76 | 75-79 |
| Crystallization Temperature (C°) | 1250 | Elongation at Break | 2.5 ± 1.0% | 4.5-5.2% | 4.0-5.0% |
| Sintering Temperature (C°) | 1050 | • Characteristics represented in both Warp and Weft directions. | | | |
| Thermal Conductivity, W(m-K) | 0.031 - 0.038 | | | | |

| MECHANICAL PROPERTIES | Surface Density (m ²) | |
|--|-----------------------------------|-----------|
| | 220 ±10 | 350 ±15 |
| Mesh Cell Sizes(mm): 20 x 20; 25 x 25; 38 x 38; 50 x 50 | | |
| Warp Density (Yarns / m) | 40 ±2 | 80 ±4 |
| Weft Density (Yarns / m) | 40 ±2 | 80 ±4 |
| Warp Breaking Load (kN / m) | > 50.0 | > 100.0 |
| Weft Breaking Load (kN / m) | > 50.0 | > 100.0 |
| Standard Roll Widths (m) | 1, 2 or 4 | 1, 2 or 4 |
| Standard Roll Lengths (m) | 50 & 100 | 50 & 100 |



Disclaimer: The information contained herein is to guide customers in determining whether ZeGRID™ is a suitable reinforcement product for their applications. It is suggested that all customers inspect and test products before their final use and satisfy themselves as to the product's performance and suitability for their application. Nothing noted herein shall constitute as a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. Z-GRID products must be used in accordance with applicable codes and manufacturer's instructions. The exclusive remedy for any proven claims is material replacement.