



## PROGRID® PP GC

BIAXIAL POLYPROPYLENE SOIL REINFORCEMENT & SEPARATION GEOGRID COMPOSITE

### DESCRIPTION

ProGrid® PP geogrid composite is formed by punching holes and stretching a stiff polypropylenesheet to form a geogrid with uniform openings which then has a polyester (PET) nonwoven geotextile heat bonded to one side. ProGrid® geogrid composites provide stiff, high modulus reinforcement with the added benefit of separation and filtration. These features combine to allow the construction of roads and other amenities over weak, low bearing subgrades.

### APPLICATION

- Base/subbase stabilisation and reinforcement
- Subgrade stabilisation and reinforcement
- Raft reinforcement

### TYPICAL PROPERTIES

|                                      | Test Method        | Units            | 30/30   | 40/40   |
|--------------------------------------|--------------------|------------------|---------|---------|
| <b>Geogrid</b>                       | Polypropylene (PP) |                  |         |         |
| Aperture Size (MD/CD)                |                    | mm               | 34 / 41 | 37 / 43 |
| Ultimate Tensile Strength (MD/CD)    | ASTM D 6637        | kN/m             | 30      | 40      |
| Strain @ Ultimate Strength (MD/CD)   | ASTM D 6637        | %                | 13      | 13      |
| Tensile Strength @ 2% Strain (MD/CD) | ASTM D 6637        | kN/m             | 10.5    | 14      |
| Tensile Strength @ 5% Strain (MD/CD) | ASTM D 6637        | kN/m             | 21      | 28      |
| Junction Efficiency (MD/CD)          | GRI GG2            | %                | 93      | 93      |
| Aperture Stability                   | ASTM D 7864        | m-N/deg          | 0.75    | 0.98    |
| Installation Damage Resistance       | ASTM D 5818        | %                | 98      | 98      |
| <b>Geotextile</b>                    | Polyester (PET)    |                  |         |         |
| Pore Size (EOS)                      | ASTM D 4751        | microns          | 110     | 110     |
| CBR Burst Strength                   | ASTM D 6241        | kN               | 1.8     | 2.5     |
| Mass per unit area                   | ASTM D 5261        | g/m <sup>2</sup> | 150     | 150     |
| <b>Dimensions</b>                    |                    |                  |         |         |
| Roll width                           | -                  | m                | 3.95    | 3.95    |
| Roll length                          | -                  | m                | 50      | 50      |

DISTRIBUTORS OF :

- Geotextiles**
- Geogrids**
- Dewatering Tubes**
- Subsoil Drainage**
- Wick Drains**
- Erosion Control**
- Gabions & Rock Mattresses**
- Industrial Fabrics**
- Lining Systems**

ProGrid is a registered trademark of Global Synthetics Pty Ltd.

DISCLAIMER : All information provided in this publication is correct to the best knowledge of the company and is given out in good faith. The information presented herein is intended only as a general guide to the use of such products and no liability is accepted by Global Synthetics Pty Ltd for any loss or damage however arising, which results either directly or indirectly from the use of such information. Global Synthetics Pty Ltd have a policy of continuous development so information and product specifications may change without notice.

APRIL.2020

