

## PP Geo Grid

TerraShield PP Geogrid is a grid-like structure made from **polypropylene strips** or ribs that are stretched and oriented in one or two directions. This creates a high-tensile, lightweight mesh that interlocks with soil, aggregate, or other fill material to improve stability.

## Applications

-  Road & Railway Construction
-  Retaining Walls
-  Slope stabilization
-  Embankments over soft soil
-  Landfills & Ground improvement projects

## Features

- A. High tensile strength & durability
- B. Chemically inert (resistant to alkalis, acids)
- C. Lightweight & easy to install
- D. Reduces aggregate thickness required
- E. Increases pavement life and load-bearing capacity
- F. UV stabilized (when treated) for outdoor exposure



## Specification

| GEO GRID SPECIFICATIONS               |       |           |           |           |      |        |        |
|---------------------------------------|-------|-----------|-----------|-----------|------|--------|--------|
| PROPERTY                              |       | GEOGRID   |           |           |      |        |        |
|                                       | Units | SS20      | SS30      | SS40      | SS2  | SSLA20 | SSLA30 |
| Polymer                               |       |           |           |           |      |        |        |
| Minimum carbonblack(1)                | %     | 2         | 2         | 2         | 2    | 2      | 2      |
| Roll width                            | m     | 4.0 & 3.8 | 4.0 & 3.8 | 4.0 & 3.8 | 4.0  | 3.8    | 3.8    |
| Roll length                           | m     | 50        | 50        | 30        | 50   | 50     | 50     |
| Unit weight                           | kg/m2 | 0.22      | 0.33      | 0.53      | 0.29 | 0.22   | 0.33   |
| Roll weight                           | kg    | 46&44     | 67&64     | 65&62     | 60   | 43     | 65     |
| Dimensions                            |       |           |           |           |      |        |        |
| AL                                    | mm    | 39        | 39        | 33        | 28   | 65     | 65     |
| AT                                    | mm    | 39        | 39        | 33        | 40   | 65     | 65     |
| WLR                                   | mm    | 2.2       | 2.3       | 52.2      | 3.0  | 4.0    | 4.0    |
| WTR                                   | mm    | 2.4       | 2.8       | 2.5       | 3.0  | 4.0    | 4.0    |
| tJ                                    | mm    | 4.1       | 5.0       | 5.8       | 3.8  | 4.4    | 7.0    |
| tLR                                   | mm    | 1.1       | 2.2       | 2.2       | 1.2  | 0.8    | 1.5    |
| tTR                                   | mm    | 0.8       | 1.3       | 1.4       | 0.9  | 0.8    | 1.5    |
|                                       |       |           |           |           |      |        |        |
| PROPERTY                              |       | GEOGRID   |           |           |      |        |        |
|                                       | Units | SS20      | SS30      | SS40      | SS2  | SSLA20 | SSLA30 |
| QUALITY CONTROL STRENGTH LONGITUDINAL |       |           |           |           |      |        |        |
| Tult (2)                              | kN/m  | 20.0      | 30.0      | 40.0      | 17.5 | 20.0   | 30.0   |
| Load at 2% strain (2)                 | kN/m  | 7.0       | 10.5      | 14.0      | 7.0  | 7.0    | 11.0   |
| Load at 5% strain (2)                 | kN/m  | 14.0      | 21.0      | 28.0      | 14.0 | 14.0   | 22.0   |
| Approx strain at Tult                 | %     | 11.0      | 11.0      | 11.0      | 12.0 | 10.0   | 9.0    |
| Juntion strength (3)                  | %     | 95        | 95        | 95        | 90   | 95     | 95     |
| QUALITY CONTROL STRENGTH TRANSVERSE   |       |           |           |           |      |        |        |
| Tult (2)                              | kN/m  | 20.0      | 30.0      | 40.0      | 31.5 | 20.0   | 30.0   |
| Load at 2% strain (2)                 | kN/m  | 7.0       | 10.5      | 14.0      | 12.0 | 8.0    | 12.0   |
| Load at 5% strain (2)                 | kN/m  | 14.0      | 21.0      | 28.0      | 23.0 | 15.0   | 25.0   |
| Approx strain at Tult                 | %     | 10.0      | 10.0      | 10.0      | 10.0 | 10.0   | 9.0    |
| Junction strength (3)                 | %     | 95        | 95        | 95        | 90   | 95     | 95     |

