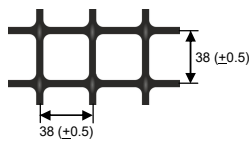
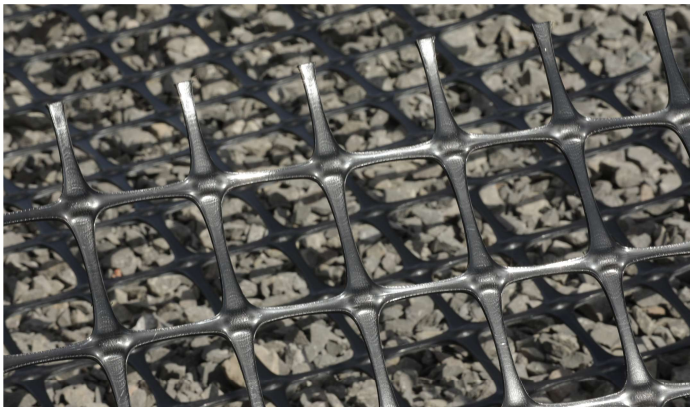


# TechGrid PP Biaxial Geogrid



TechGrid PP is a family of integrally formed biaxial Geogrids manufactured from superior grades of polypropylene using a precisely controlled punching and drawing process. Stringent controls on raw materials and manufacturing process ensures a high quality product with consistent geometry, integral junctions, superior mechanical properties and excellent durability. The polymer has been stabilized using over 2.0% carbon black.

TechGrid PP Biaxial Geogrid acts as a stretched membrane that resists the vertical loads while simultaneously provides confinement to the subgrade soil. It also provides an increased bearing capacity margin of safety by intercepting the potential failure surfaces that develop under vertical loads.



**Notes:**

1. The information given in this data sheet is based on tests conducted at our manufacturers in-house laboratory and independently accredited laboratories. While the information is presented as a true and accurate representation of the attributes of the product to the best of our knowledge, no expressed or implied warranties are made and Cosio Industries Ltd assumes no responsibility or liability with regard to the use of this information. The right to make periodic revisions of the specifications without prior notice is reserved.
2. Nominal measured values having  $\pm 5.0$  mm tolerance
3. Measured in accordance with ISO 10319, ASTM D 6637, calculate as the average value.
4. TechGrid biaxial geogrid are highly resistance to ultra-violet light as it incorporates over 2.0% carbon black.

| Product Code      | Mechanical properties |                                  |      |              |    |                     | Durability                   |                               | Dimensions           |  |
|-------------------|-----------------------|----------------------------------|------|--------------|----|---------------------|------------------------------|-------------------------------|----------------------|--|
|                   | Ultimate              | Unit Tension (kN/m) <sup>2</sup> |      |              |    | Junction Efficiency | Resistance to UV Degradation | Typical Size mm ( $\pm 5.0$ ) |                      |  |
|                   |                       | @2.0% Strain                     |      | @5.0% Strain |    |                     |                              | MD                            | TD                   |  |
|                   | MD                    | TD                               | MD   | TD           | MD | TD                  | MD                           | TD                            |                      |  |
| TechGrid PP 2020  | 20                    | 20                               | 7.0  | 7.0          | 14 | 14                  | $\geq 95\%$                  | 38                            | 38                   |  |
| TechGrid PP 3030  | 30                    | 30                               | 9.0  | 9.0          | 21 | 21                  | $\geq 95\%$                  | 38                            | 38                   |  |
| TechGrid PP 3030L | 30                    | 30                               | 10.0 | 10.0         | 21 | 21                  | $\geq 95\%$                  | 60                            | 60                   |  |
| TechGrid PP 4040  | 40                    | 40                               | 14.0 | 14.0         | 28 | 28                  | $\geq 95\%$                  | 30                            | 30                   |  |
| <b>Packaging</b>  | 3.95 mtrs.            |                                  |      |              |    |                     | 25 / 50 mtrs.                |                               | Length ( $\pm 1.0$ ) |  |
|                   | Width ( $\pm 0.05$ )  |                                  |      |              |    |                     |                              |                               |                      |  |

