

TechGrid B Series comprise biaxial geogrids manufactured from select grades of high tenacity, high molecular weight, and low carboxyl end group polyester yarn to ensure high strengths, low creep and excellent durability. The yarns are formed into a dimensionally stable grid structure with uniform apertures, using an advanced weft insertion warp knitting process and are then given a tough and durable proprietary polymeric coating to enhance dimensional stability, resistance to installation damage and durability. TechGrid B Series geogrids are suitable for the reinforcement of soils and other granular materials where strength in both directions is important, including: reinforcement of unbound aggregate courses of paved and unpaved roads, area stabilization/ reinforcement and track-bed stabilization.

TechGrid B Series geogrids conform to the following property values:

| Properties                             |    | Test Method                       | Unit | TGB - 20 | TGB - 30 | TGB - 40 | TGB - 60 | TGB-80 | TGB - 90 | TGB- 100 | TGB -150 | TGB-200 |    |
|--|----|-----------------------------------|------|----------|----------|----------|----------|--------|----------|----------|----------|---------|----|
| Ultimate tensile strength <sup>1</sup> | MD | ASTM<br>D 6637<br>EN ISO<br>10319 | kN/m | 20       | 30       | 40       | 60       | 80     | 90       | 100      | 150      | 200     |    |
|  | CD |                                   |      | 20       | 30       | 40       | 60       | 80     | 90       | 100      | 150      | 200     |    |
| Elongation at Nominal Strength         | MD |                                   | %    | 12       | 12       | 12       | 12       | 12     | 12       | 12       | 12       | 12      | 12 |
|  | CD |                                   |      | 12       | 12       | 12       | 12       | 12     | 12       | 12       | 12       | 12      | 12 |
| Tensile strength at 2 % strain         | MD |                                   | kN/m | 4.0      | 7.0      | 9.0      | 11.0     | 13     | 15       | 16       | 20       | 30      |    |
|  | CD |                                   |      | 4.0      | 6.5      | 8.0      | 9.5      | 10     | 10.5     | 11       | 15       | 24      |    |
| Tensile strength at 5 % strain         | MD | kN/m                              | 7.0  | 13       | 16       | 20       | 24       | 28     | 30       | 45       | 55       |         |    |
|  | CD |                                   | 7.0  | 9.0      | 11       | 14       | 16       | 20     | 22       | 35       | 45       |         |    |
| <b>Physical properties<sup>2</sup></b> |    |                                   |      |          |          |          |          |        |          |          |          |         |    |
| Aperture size ( Tolerance ± 3 mm)      |    |                                   | mm   | 27x27    | 27x27    | 26x26    | 25x25    | 25x25  | 23x23    | 23x23    | 23x22    | 23x22   |    |
| <b>Roll dimensions<sup>2</sup></b>     |    |                                   |      |          |          |          |          |        |          |          |          |         |    |
| Roll width                             |    |                                   | m    | 3.9/5.1  |          |          |          |        |          |          |          |         |    |
| Roll length                            |    |                                   | m    | 100      |          |          |          |        |          |          |          |         |    |

<sup>1</sup> Minimum average roll value (Minimum refers to 95 % confidence limit.) MD – Machine Direction CD – Cross Direction.



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#### Notes-

Above properties might change at the time of manufacturing, storing, handling or shipping the above values are subjected to change as per description of the company

Customized rolls with varying lengths or master rolls can be manufactured. Tested in GAI LAP / NABL accredited Laboratories

This product specification supersedes, all prior specification of product described. This information has been carefully compiled by TechFab India Industries Limited and to the best of our knowledge is accurate

Final determination of the suitability of any information or material is the sole responsibility of the user. Structural design shall be performed by a licensed design professional.