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# ForTech

## GG Uni-Axial Geogrid



**Fortech GG Uni-Axial Geogrid** , is woven type geogrid having significantly higher tensile stress in one direction as compared to the tensile stress in the opposite direction.

**Fortech GG Uni-Axial Geogrid** , is high strength geogrid specifically developed for uni-axial requirements in various civil engineering applications. Such geogrids are produced by the method of weaving polyester yarns in rectangular shape and coating them with polymer material.



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## Fields of Application and Use

Fortech GG Uni-Axial Geogrid are used in applications such as reinforced retaining structure systems (GeoArme) with slope stabilization, where strength is required in one direction.

It has fast and economical application possibility, safe earthquake behavior, flexible structure, resistance to settlements and at the same time aesthetic appearance.

It is used in the following areas.

- In the divided road widening works;
- On the approach walls of crossroads;
- In the places where expropriation will be made;
- In the studies aimed at gaining space
- On the bridge footwalls;
- On the bridge elevation walls; and
- On the walls of the parks and gardens.

## Technical Specifications

| Products            | Standart (TS EN ISO 10319) |     |                                    |        |
|---------------------|----------------------------|-----|------------------------------------|--------|
|                     | Tensile Strength (kN/m)    |     | Elongation at Nominal Strength (%) |        |
|                     | MD                         | CMD | MD                                 | CMD    |
| ForTech GG 40/20 P  | 40                         | 20  | 12(±1)                             | 12(±1) |
| ForTech GG 60/20 P  | 60                         | 20  | 12(±1)                             | 12(±1) |
| ForTech GG 80/30 P  | 80                         | 30  | 12(±1)                             | 12(±1) |
| ForTech GG 100/30 P | 100                        | 30  | 12(±1)                             | 12(±1) |
| ForTech GG 150/30 P | 150                        | 30  | 12(±1)                             | 12(±1) |
| ForTech GG 120/30 P | 120                        | 30  | 12(±1)                             | 12(±1) |
| ForTech GG 150/50 P | 150                        | 50  | 12(±1)                             | 12(±1) |
| ForTech GG 200/50 P | 200                        | 50  | 12(±1)                             | 12(±1) |

## Advantages

Fortech GG Uni-Axial Geogrid is durable, long-lasting, reliable, cost-effective and resistant to seismic and dynamic loads.

When fillings or granular material are spread over Geogrid, the grains of the filling material fully interlock with the openings of Geogrid.

Uni-Axial Geogrid forms integrity with the filling material by ensuring that the stress is covered within the pores. In this way, the tensile and shear stresses on the ground are covered by Geogrid, and a reinforced platform is formed.

## Packaging and Storage

- ForTex GG Uni-Axial Geogrid is generally produced as rolls with a width of 5.25 and 6 m and a length of 50 and 100 m. Each roll is shipped in UV-resistant packaging.
- It is recommended not to stack up more than 6 rolls on top of each other, and in case of rolls with smaller width (up to 2 m), the rolls should be loaded and stored in the vertical position.