

## GeoTech Industries Pvt Ltd

GeoTech is a modern initiative, with advanced, state-of-the-art technology and an enterprising vision of equipping owners, consultants, and contractors with consistently high-quality geosynthetic products. With offerings that meet international quality standards, GeoTech is an innovator and pioneer for geosynthetic solutions, ensuring formidable safety, durability, and performance.

### PP BIAXIAL EXTRUDED TUFF-GRID

A Geogrid is a geosynthetic product used to reinforce soils and other materials like stone, gravel, cement, concrete, asphalt, etc. When subjected to tension, such materials can pull apart while geogrids can uniformly distribute this tension over a larger area and provide reinforcement to resist flexural deformation. This is possible because of their high strength, high modulus, and low-creep sensitivity.

Extruded geogrids are made of high modulus polypropylene (PP) through a process of extrusion, sheet forming, punching, and stretching. This last step of stretching is both longitudinal and transverse. Extruded Geogrids ensure high tensile strength in both Machine and Cross directions which makes them very beneficial in a variety of applications for Ground Reinforcement, Soil Stabilisation & Erosion Control.

### Applications

Railways

- Delay in sleeper settlement
- Fewer maintenance cycles
- Cost savings

Roads

- Extended life cycle
- Increased bearing capacity
- Avoids cracks & collapses
- Reduced material usage

Airport runways

Parking lots

Landfills

Mines

Buildings & Construction sites



## GeoTech TUFF - GRID Stabilisation Geogrid

### Technical Data - TUFF GRID

Product Code	Mechanical properties								Durability	Dimensions			
	Unit Tension (kn/m)									Junction Efficiency	Resistance to UV Degradation		
	Ultimate		@2.0% Strain		@5.0% Strain		0.5% Radial stiffness	MD			TD		
	MD	TD	MD	TD	MD	TD		MD			TD		
Tuff Grid PP 1515	15	15	6	6	11	11	210	≥95%	100%	38	38		
Tuff Grid PP 1515LA	15	15	6	6	11	11	210	≥95%	100%	65	65		
Tuff Grid PP1616	16	16	6.5	6.5	11.5	11.5	210	≥95%	100%	38	38		
Tuff Grid PP1616LA	16	16	6.5	6.5	11.5	11.5	210	≥95%	100%	65	65		
Tuff Grid PP 2020	20	20	7.5	7.5	15	15	350	≥95%	100%	38	38		
Tuff Grid PP 2020LA	20	20	7.5	7.5	15	15	350	≥95%	100%	65	65		
Tuff Grid PP 3030	30	30	11	11	21	21	380	≥95%	100%	38	38		
Tuff Grid PP 3030LA	30	30	11	11	21	21	380	≥95%	100%	65	65		
Tuff Grid PP 4040	40	40	14.5	14.5	28.5	28.5	400	≥95%	100%	38	38		
Tuff Grid PP 4040LA	40	40	14.5	14.5	28.5	28.5	400	≥95%	100%	65	65		
Packaging													
Width (±0.05m)	3.95 mtrs				Length	25 ,50 ,75 Meters							

#### Remark:

- The above parameters in this specification sheet are based on tests carried out at our in-house testing lab and separately 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 GeoTech Industries Pvt. Ltd. assumes no responsibility or liability regarding the use of this information. GeoTech has right to make any revisions time to time in the specifications when and where required.
- Measured parameter values are having  $\pm 3.0$  mm tolerance.
- Measured in accordance with ISO 10319, ASTM D 6637, calculate as the average value and mechanical properties having  $\pm 10\%$  tolerance.
- Tuff Grid biaxial geogrid are highly resistance to ultra-violet light as it incorporates over 1.0% carbon black. Measured in accordance with ASTM D 4355 @ 500 HRS.
- Tuff Grid biaxial geogrids are manufactured using polypropylene, which is unaffected by biological degradation and is highly resistant to acids, alkalis and salts that are typically found in soils.
- All standard & compatible connectors & tendons shall be provided on demand at extra cost.



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