



Ready to
improve your
construction



ForTex

Bi-Axial Geogrids

ForTex Bi-Axial Geogrids are high-strength materials which are manufactured by knitted polyester yarns in the rectangular form and covered with polymeric coating, developed for bi-directional geogrid requirements for various applications of civil engineering.

istanbul**teknik**



ForTex

Bi-Axial Geogrids

ForTex Bi-Axial Geogrids are mesh type geogrids with equal tensile strength in the machine direction and cross machine direction.

ForTex Bi-Axial Geogrids are high strength geogrids specifically developed for stabilization applications that required tensile strength of machine direction and cross machine direction.

Fields of Application

- Providing higher bearing capacity for the runway, apron and taxiway foundations at airports.
- New line constructions of railway applications.
- Preventing local settlements in applications of highways and railways to be performed on poor soil.
- Durable resistant thickness of foundation and subbase.
- As reinforcement for highway expansion projects.
- Reducing quantities of ballast and sub-ballast of railways.
- Setting load transfer platform or as a basal reinforcement over piles under foundations or high embankments.
- Improving the load bearing capacity and preventing local settlements for the foundations against the heavy loads at the foundations of container storage yards and industrial structures.

Application

The ground surface where geogrids will be laid should be leveled; the ground should be prepared by making sure that there are no harmful objects that will affect the application, such as plant roots, holes, large and sharp stones, etc. The geogrid should be laid smoothly and tightly on the prepared ground. Fluctuations should be corrected by stretching. Geogrid reinforcement should be laid side by side without leaving any gaps and rolls should be overlapped at the edges. Overlap width can be selected according to project or ground CBR conditions. U (Π) or L (Γ) shaped steel will be anchored to the ground at certain intervals along the overlaps of the laid material.

Geogrid can be wrap around at the embankment edges to prevent lateral spreading. Wrap around length is given at project. After the top filling is completed, wrap around part can flip over the filling and fixed with the help of U (Π) or L (Γ) steel bars.

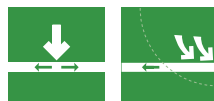
Construction machinery and trucks will never be allowed to travel directly on the geogrid reinforcement. Trucks will move backwards and unload backfill to the area where the reinforcement has been laid. Construction machinery and trucks will be able to move on the geogrid reinforcement after at least 15 cm of filling material is laid.



Advantages

- Enables application of the backfill layer to be laid on poor bearing soil with less thickness.
- Forms a platform with the fill on poor bearing soils and reduces differential settlements.
- When applied in multi layers, improves the load bearing capacity of the soil.
- Enables to reduce excavation thickness of poor soil.
- Durable resistant to seismic and dynamic loads, reliable and cost-effective.

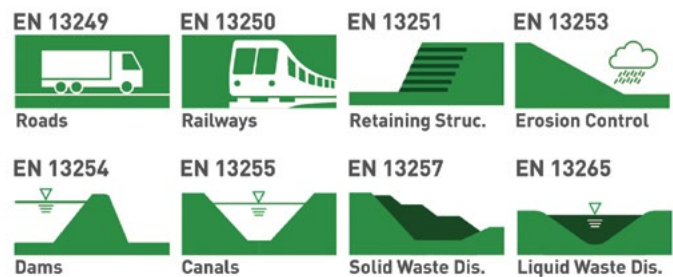
Range of Products



Product	Standart (TS EN ISO 10319)	
	Tensile Strength (kN/m)	
	MD	CMD
ForTex GG 20/20 P	20	20
ForTex GG 30/30 P	30	30
ForTex GG 40/40 P	40	40
ForTex GG 60/60 P	60	60
ForTex GG 80/80 P	80	80
ForTex GG 100/100 P	100	100
ForTex GG 120/120 P	120	120
ForTex GG 150/150 P	150	150
ForTex GG 200/200 P	200	200
ForTex GG 300/300 P	300	300
ForTex GG 400/400 P	400	400
ForTex GG 600/600 P	600	600
ForTex GG 800/800 P	800	800

Special types can be manufactured on request.

Intended Use



Packaging And Storage

ForTex Bi-axial Geogrids, is manufactured in rolls up to 5,25-6 m width and generally 50-100 m length. Each roll is shipped in PE packaging in protected against UV effects. If the rolls are to be stacked up on top of each other, it is recommended to stack up to maximum 6 rows. Rolls should be stored protected against direct sun light, rain, heat sources under cover. Please request loading information from your sale representative.



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Fortex Bi-Axial Geogrids
are durable, resistant
to seismic and dynamic
loads and reliable.



Head Office:

Tekstil Kent Cad. Koza Plaza
B Blok Kat: 30 Esenler 34235
İstanbul / Türkiye
Phn: +90 212 438 18 08
export@istanbulteknik.com
www.istanbulteknik.com

istanbulteknik