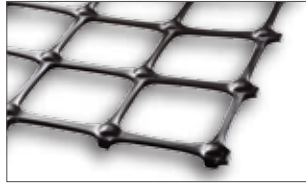


GEOSYNTHETICS BIAXIAL GEOGRIDS & GEOCOMPOSITES

Extruded PP biaxial geogrids and geocomposites with PP nonwoven geotextiles for use in road, railway and embankment projects.



GEOCOMPOSITE



BIAXIAL GEOGRID



REDUCE CONSTRUCTION TIME & SAVE COSTS WITH HIGH QUALITY GEOGRIDS & GEOCOMPOSITES

PRODUCTION METHOD

Thrace NG biaxial geogrids are **manufactured from PP sheets** using the **extrusion method of punching a pattern** of holes, followed by **stretching under controlled temperature** in both directions in order to **reach the material tensile characteristics**. The geogrid geocomposites are produced by **heat bonding the geogrids** with any type of Thrace NG **Nonwoven geotextiles**.

FUNCTIONS SERVED BY THRACE NG GEOGRIDS & GEOCOMPOSITES



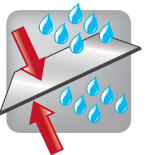
REINFORCEMENT

The **good tensile mechanical properties of Thrace NG geogrids** in conjunction with the soil's good compressive but poor tensile properties **improve the total system's strength interaction**. The high strength & low elongation of the geogrids are ideal for **reinforcing subgrades of roads and railroads**, as well as **slopes of embankments & retaining walls**.



SEPARATION

Thrace NG Nonwoven geotextiles in the geogrid geocomposite **serve as a separation layer between dissimilar earth materials** allowing for **integrity & functioning** of both materials, so they **can be improved or remain intact**.

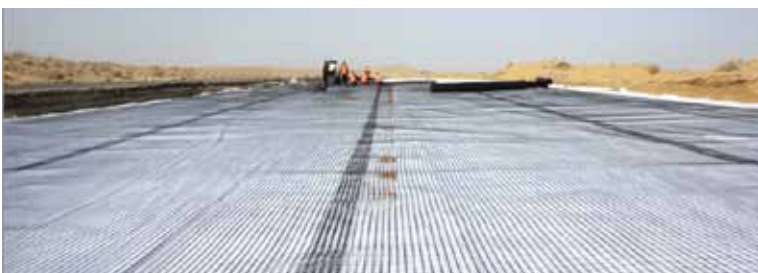


FILTRATION

Thrace NG Nonwoven geotextiles in the geogrid geocomposite **serve as a filtration layer** thus working in equilibrium with the soil **to allow for adequate liquid flow with limited soil loss** across the plane of the geotextiles while **avoiding pore clogging**.

USES & MAIN CHARACTERISTICS

- Thrace NG geogrids/geocomposites can be used both to **decrease the fill material thickness & to increase the bearing capacity** of the underlying soil material while **reducing construction costs**.
- The apertures of the biaxial geogrids **aid in aggregate interlock** thus allowing for **effective reinforcement & soil confinement**.
- **Easy to install**, offering **construction cost savings**.
- Geogrid tensile properties ranging from **15kN/m to 40kN/m** & aperture sizes **between 25mm & 66mm**.
- Customized geogrid/Nonwoven geotextile **combinations to meet clients' needs**.



www.thracegroup.com

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 **THRACE NG**

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