Geogrids form a distinct category of geosynthetics designed for REINFORCEMENT. These products are characterized by a relatively high tensile strength and a uniformly distributed array of large apertures. The apertures allow soil particles on either side of the installed sheet to come into direct contact, thereby increasing the interaction between the geogrid, aggregate, and some soils. Also, the apertures ensure vertical drainage of a reinforced free-draining aggregate/soil.

Geogrids are either integrally manufactured punched and drawn sheets, extruded, ultrasonically or adhesive bonded strips, or joined in a knitting or weaving process and then coated. Polymer types include high-density polyethylene (HDPE), polypropylene (PP) or high tenacity polyester (PET) that has been polymer coated.

The PRODUCTS you need with SUPPORT that makes a Difference!

Carthage Mills SF (SRW), GBX® and GUX® Series of Geogrids

Carthage Mills' SF Series of SRW Geogrids

Carthage Mills' SF Series of SRW Geogrids are woven from high-tenacity, high molecular weight polyester (PET) fibers in a full range of Ultimate Tensile including >27,000 lbs/ft, and high long-term design strengths (LTDS) to meet the most demanding SOIL REINFORCEMENT applications.

Specific Applications Include: Segmental Retaining Walls (SRW); Mechanically Stabilized Earth (MSE) Structures; Steepened Slopes; Veneer Reinforcement; Voids Bridging; Earth-filled Embankments over Soft Soils; Dike and Levees; Welded Wire-form Faced Walls

GBX® Series of Rigid Biaxial Polypropylene (PP) Geogrids

The Carthage GBX® Series of integrally formed rigid biaxial geogrids – including commonly referred to Type 1 and Type 2 – are produced of the highest grade polypropylene (PP) and are mostly commonly used in Base REINFORCEMENT applications. Contractors can be assured of seam-less submittals and project approvals when the GBX Series of geogrids is their product line of choice.

Specific Applications Include: Base Reinforcement Highways, Secondary Roads, Parking Lots; Airport Runways and Taxiways; Working Platforms/Mattresses on Weak Subgrades; Foundation, Cement or Concrete Reinforcement

GUX™ Series of Uniaxial Polyethylene (HDPE) Geogrids

Carthage GUX™ Geogrids are manufactured by punching and drawing a homogenous polymer sheet of high-density polyethylene (HDPE) resins, and can carry high tensile loads applied in one direction (along the roll). They come in two versions for two distinct REINFORCEMENT applications: “S” for Slopes, and “W” for walls.

Specific Applications Include: Reinforcement of Vertical Walls and Slopes; Landfill Liner Support, Veneer Stability, and Capacity Improvement; Construction of Gabions and Mats; Foundation Construction and Improvement