



■ GX[®]-1000 Geogrid

Carthage Mills' GX[®] Geogrids for soil and aggregate reinforcement are manufactured of high tenacity, high molecular weight, polyester yarns, woven into a stable interlocking grid, placed under tension, and then PVC coated to provide damage protection during installation. They are developed for the reinforcement of steepened slopes and segmental retaining walls.

Carthage Mills' GX[®] Geogrids are:

- Biologically inert, resistant to most naturally encountered chemicals, alkalis, and acids
- Resistant to ultra violet exposure and installation damage
- Resistant to long-term creep
- Flexible for easy installation

PROPERTY	UNIT	TEST METHOD	VALUE
Weight (Typical)	oz/yd ²	ASTM D 5261	14.1
Aperture Size (Grid) (Typical)	in	Measured w/ calipers	0.95 (MD) 1.15 (TD)
Wide Width Tensile Strength@ Ultimate (MD)	lb/ft	ASTM D 6637	9790
Creep Limited Strength	lb/ft	ASTM D 5262	6660
Long Term Design Strength (Silty Sand)	lb/ft	NCMA	5658
Roll Dimensions (Width x Length) (12' and 17' wide available on request)	ft	—	6 x 300
Roll Area	yd ²	—	200
Roll Weight (Typical)	lb	—	174

- All values stated here are Minimum Average Roll Values and are based on a 97.7% confidence level.
- Carthage Mills geogrids are manufactured from polyester yarn with a molecular weight (M_n) > 25,000 grams/mole and Carboxyl End Groups (CEG's) < 30 mmol/kg.
- The properties reported above are effective 01/01/11 and are subject to change without notice.

$$LTDS = \frac{T_{ULTIMATE}}{RF_{CR} \times RF_{ID} \times RF_D} = \frac{9790}{1.47 \times 1.07 \times 1.10} = 5658 \text{ lb/ft}$$

Partial Reduction Factors: RF_{CR} = for creep deformation
 RF_{ID} = for installation damage (silty sand)
 RF_D = for biological and chemical degradation

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by seller concerning the uses or applications of said product are believed reliable and seller makes no warranty of results to be obtained. If the product does not meet Carthage Mills current published specifications, and the customer gives notice to Carthage Mills before installing the product, then Carthage Mills will replace the product without charge or refund the purchase price.