

HTG (High Tenacity Geogrid) is a geogrid reinforcement for earth structures manufactured with high tenacity polyester yarn and high molecular weight. The polyester yarns are woven into a uniform network of apertures providing unsurpassed reinforcement capacity. The geogrid is engineered to be both mechanically and chemically durable (pH between 3 and 9). The black polymer coating provides further chemical protection and enhanced mechanical connection at junctures. Below are the Index Property test values.

Minimum Average Roll Values

	<u>35</u>	<u>80</u>	<u>120</u>	<u>160</u>
STRENGTH				
Ultimate Strength (T_{Ult})	3,604 (52.6)	5,813 (84.8)	8,071 (117.8)	10,730 (156.6)
ASTM D6637-lb/ft (kN/m) MD				
Creep Reduction Factor	1.54	1.54	1.54	1.54
Durability Reduction Factor, RF_D	1.10	1.10	1.10	1.10
Installation Damage (RF_{Installation Damage})				
Sand, Silt, Clay	1.05	1.05	1.05	1.05
Sandy Gravel	1.10	1.10	1.10	1.10
Gravel	1.20	1.20	1.20	1.20
LTDS GRI GG4-lb/ft(kN/m) MD				
Sand, Silt, Clay	2,026 (29.6)	3,268 (47.7)	4,538 (66.2)	6,032 (88.0)
Sandy Gravel	1,934 (28.2)	3,120 (45.5)	4,331 (63.2)	5,758 (84.0)
Gravel	1,773 (25.9)	2,860 (41.7)	3,970 (57.9)	5,278 (77.0)
Interaction Coefficients	Silt 0.6-0.7, Sandy Silt 0.7-0.8, Sand 0.8-0.9, Gravel 0.9-1.0			
GEOMETRY				
Aperture Size				
-MD Inches (mm)	0.72 (18.3)	0.74 (18.8)	0.72 (18.3)	0.71 (18.0)
-CMD Inches (mm)	0.72 (18.3)	0.72 (18.3)	0.73 (18.5)	0.71 (18.0)
WEIGHT				
ASTM D4632 - oz/yd ² (kg/m ²)	5.3 (0.18)	8.1 (0.28)	10.9 (0.38)	16.7 (0.58)
ROLL SIZE				
Width feet(m)	6.56 (2.0)	6.56 (2.0)	6.56 (2.0)	6.56 (2.0)
Length feet(m)	328 (100)	328 (100)	328 (100)	328 (100)
Area sq.yards(m ²)	240 (200)	240 (200)	240 (200)	240 (200)
Weight lbs(N)	80 (357)	122 (544)	164 (731)	251 (1117)

WHERE: MD = Machine Direction, running along roll length
 CMD = Cross Machine Direction, running across the roll length (running along the roll width)
 RF_d = 1.1 recommended based upon FHWA Demonstration Project 82
 LTDS = Long Term Design Strength = $T_{Ult} / RF_{Creep} \times RF_{Installation\ Damage} \times RF_{Durability}$

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