

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. Designed in the U.S.A.

Minimum Average Roll Values

	<u>20</u>	<u>35</u>	<u>80</u>	<u>120</u>	<u>160</u>
STRENGTH					
Ultimate Strength (T_{ult}) ASTM D6637-lb/ft (kN/m) MD	2,650 (38.7)	3,604 (52.6)	5,813 (84.8)	8,071 (117.8)	10,730 (156.6)
Creep Reduction Factor	1.54	1.54	1.54	1.54	1.54
Durability Reduction Factor, RF_D	1.10	1.10	1.10	1.10	1.10
Installation Damage (RF_{ID})					
Sand, Silt, Clay	1.05	1.05	1.05	1.05	1.05
Sandy Gravel	1.10	1.10	1.10	1.10	1.10
Gravel	1.20	1.20	1.20	1.20	1.20
LTDS GRI GG4-lb/ft(kN/m) MD					
Sand, Silt, Clay	1,490 (21.8)	2,026 (29.6)	3,268 (47.7)	4,538 (66.2)	6,032 (88.0)
Sandy Gravel	1,422 (20.8)	1,934 (28.2)	3,120 (45.5)	4,331 (63.2)	5,758 (84.0)
Gravel	1,304 (19.0)	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)	0.72 (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)	0.72 (18.3)	0.73 (18.5)	0.71 (18.0)
WEIGHT					
ASTM D4632 - oz/yd ² (kg/m ²)	4.8 (0.16)	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)	6.56 (2.0)
Length feet(m)	328 (100)	328 (100)	328 (100)	328 (100)	328 (100)
Area sq.yards(m ²)	240 (200)	240 (200)	240 (200)	240 (200)	240 (200)
Weight lbs(N)	59 (263)	89 (397)	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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The use and selection of the product above should be completed by a competent design professional. Specifications as outlined above are subject to change. The products above are specifically designed for earth reinforcement only. Earth Wall Products, LLC has compiled the above information based on tests conducted in accordance with recognized Industry Standards. Earth Wall Products will have no liability for consequential damages. No warranties are expressed or implied, including without limitation any warranties of fitness for a particular purpose, marketability, value, or condition. Regardless of the cause of action or legal theory, the liability of Earth Wall Products shall be limited to the fee paid to Earth Wall Products. Copyright 2015 by Earth Wall Products, LLC.