



# EARTH WALL GEOGRID

## Product Data Sheet

August 2023

EWG (Earth Wall Geogrid) is designed in the USA by our retaining wall engineers and contract produced to exacting specifications as well as tested by a GAI certified testing laboratory here in the USA. The high tenacity polyester yarns are knitted into a uniform network of apertures providing unsurpassed reinforcement capacity and engineering efficiency. The geogrid is engineered to be both mechanically and chemically durable (pH between 3 and 9). The black polymer coating provides UV protection and additional stability and durability.

### Minimum Average Roll Values

	<u>40</u>	<u>60</u>	<u>80</u>	<u>120</u>	<u>150</u>					
<b>STRENGTH</b>										
<b>Ultimate Strength (T<sub>Ult</sub>)</b>	2,741	40.0	4,111	60.0	5,482	80.0	8,223	120.0	10,278	150.0
ASTM D6637-lb/ft (kN/m) MD										
<b>Creep Reduction Factor</b>	1.44		1.44		1.44		1.44		1.44	
<b>Durability Reduction Factor, RF</b>	1.10		1.10		1.10		1.10		1.10	
<b>Installation Damage (RF<sub>ID</sub>)</b>										
<i>RFID (Soil -15mm minus, D50 ≤ 0.2mm) (SM, SC, CL, ML) - Sand &amp; Silt</i>	1.02		1.02		1.02		1.02		1.02	
<i>RFID (Soil - 15mm minus, D50 ≤ 5mm) (SW, SP, SM, SC) - Sand</i>	1.04		1.04		1.04		1.04		1.04	
<i>RFID (Soil - 25mm (1") minus, D50 ≤ 10mm) (GP, GW, GM, GC, SW, SP, SM, SC)</i>	1.09		1.09		1.09		1.09		1.09	
<i>RFID (Soil - 50mm (1.5") minus, D50 ≤ 20mm) (GP)</i>	1.14		1.14		1.14		1.14		1.14	
<b>Tal (LTDS) - Long Term Design Strength</b>										
<i>USCS Soil Classification (SM, SC, CL, ML)</i>	lbs/ft	1,696	2,544		3,393		5,089		6,361	
	kN/m	25	37		50		74		93	
<i>USCS Soil Classification (SW, SP, SM, SC)</i>	lbs/ft	1,664	2,496		3,328		4,992		6,239	
	kN/m	24	36		49		73		91	
<i>USCS Soil Classification (GP, GW, GM, GC, SW, SM, SC)</i>	lbs/ft	1,588	2,381		3,175		4,763		5,953	
	kN/m	23	35		46		70		87	
<i>USCS Soil Classification (GP)</i>	lbs/ft	1,518	2,277		3,036		4,554		5,692	
	kN/m	22	33		44		66		83	
<b>Interaction Coefficients</b>										
			Silt 0.6-0.7,	Sandy Silt 0.7-0.8,	Sand 0.8-0.9,	Gravel 0.9-1.0				
<b>ROLL SIZE</b>										
Width feet(m)	6.40	(2.0)	6.40	(2.0)	6.40	(2.0)	6.40	(2.0)	6.40	(2.0)
Length feet(m)	328.10	(100.0)	328.10	(100.0)	328.10	(100.0)	328.10	(100.0)	328.10	(100.0)
Area sq.yards(m <sup>2</sup> )	240	(200)	240	(200)	240	(200)	240	(200)	240	(200)
Weight lbs(N)	86.6	(39.30)	103.0	(46.70)	125.8	(57.00)	164.5	(74.60)	194.4	(88.20)

WHERE: MD = Machine Direction, running along roll length  
 CMD = Cross Machine Direction, running across the roll width  
 RF<sub>d</sub> = 1.1 recommended based upon FHWA Demonstration Project 82  
 Tal (LTDS) = Long Term Design Strength = T<sub>Ult</sub> / RF<sub>Creep</sub> x RF<sub>Installation Damage</sub> x RF<sub>Durability</sub>

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 2023 by Earth Wall Products, LLC.

# EARTH WALL PRODUCTS

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