

Stratagrid® 500 Product Data

STRATAGRID® is geogrid reinforcement for soil, manufactured with high molecular weight/high tenacity polyester yarns utilizing a complex knitting process and polymer coating to provide superior engineering properties. The yarns are knitted into a dimensionally stable, uniform network of apertures providing significant tensile capacity. This polyester geogrid is engineered to be both mechanically and chemically durable, in both the harsh construction installation phase and aggressive soil environments (pH range from 3-9).

	<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Value</u>
<u>Geometry</u> ⁽¹⁾	Aperture Size	Measured		
	-MD		in. (mm)	2.45 (62.2)
	-CMD		in. (mm)	0.95 (24.1)
<u>Strength</u>	Ultimate Tensile ⁽²⁾	ASTM D6637 (Method A)	lbs/ft. (kN/m)	6400 (93.4)
	Creep Strength ⁽³⁾	ASTM D6992/ D5262	lbs/ft. (kN/m)	4129 (60.3)
	LTDS ⁽⁴⁾		lbs/ft. (kN/m)	3412 (49.8)
<u>Identification</u> ⁽¹⁾	Roll Size	Width x Length	ft. (m)	6 x 300 (1.83 x 91.4)
		Area	sq. yds. (sq.m.)	200 (167.2)
		Weight	lbs. (kg)	125 (56.7)

⁽¹⁾ Reported measurements for product geometry and identification are nominal values.

⁽²⁾ Reported tensile strength is the minimum average roll value (MARV). Minimum average roll value is the average value minus two times the standard deviation.

⁽³⁾ Creep rupture strength is based on 114-year design life as determined in accordance with ASTM D5262 and D6992

⁽⁴⁾ Based upon $LTDS = (\text{Ultimate Tensile Strength}) \div (FS_{cr} \times FS_{id} \times FS_{dur})$ for sand, silt and clay soils ($D_{max} = 25\text{mm}$, $D_{50} \leq 0.2\text{mm}$)



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Values are representative of the product at the time of manufacturing. Handling and installation may change these properties. Specification is subject to change without notice. The sizing, use and selection of the products should be completed by a licensed design professional.

The performance data herein reflect Strata System, Inc.'s expectation based on tests conducted in accordance with recognized standard methods. The sale of these products shall be subject to the Terms and Conditions of Sale as set forth in Strata Systems, Inc. sales forms. Such Terms and Conditions of Sale will provide that Strata Systems, Inc. will have no liability for consequential damages and will include certain limited express warranties concerning these products. ALL OTHER EXPRESS AND IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED BY STRATA SYSTEMS, INC. No agent, employee or representative of Strata Systems, Inc. is authorized to modify this disclaimer.

This product specification supersedes all prior specifications for the product described and is not applicable to any products shipped prior to January 1, 2013.