

Stratagrid® 700 Product Data

Minimum Average Roll Values

STRATAGRID® is a geogrid reinforcement for soil, manufactured with high molecular weight/high tenacity polyester yarns utilizing a complex knitting process and low temperature coating technology 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 2-10). A proprietary UV stabilized coating provides further chemical and mechanical benefits.

	<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)
	Open Area	Measured	%	60%
	Thickness	ASTM D1777		
	-MD		in. (mm)	0.074 (1.88)
	-CMD		in. (mm)	0.082 (2.08)
<u>Strength</u>				
	Ultimate Tensile ⁽²⁾	ASTM D6637		
	-MD		lbs/ft. (kN/m)	10500 (153.2)
	LTDS ⁽³⁾	GRI-GG4		
	-MD		lbs/ft. (kN/m)	5647 (82.4)
<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)	180 (81.6)

⁽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⁾ Based upon $LTDS = (Ultimate\ Tensile\ Strength) \div (FS_{cr} \times FS_{id} \times FS_{dur})$ for sand, silt and clay soils



STRATA
SYSTEMS, INC.

380 Dahlonge Road, Ste#200
Cumming, GA 30040 USA
(770) 888-6688 · (800) 680-7750
Fax: (770) 888-6680

Email: strata@geogrid.com
Website: www.geogrid.com

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