

STRATAGRID Product Data

STRATAGRID is a geogrid reinforcement for soil, manufactured with high molecular weight / high tenacity polyester yarn. The yarns are precision knitted into a dimensionally stable, uniform network of apertures providing significant tensile reinforcement capacity in two principal directions. This polyester grid is engineered to be both mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments (pH range from 2-12). A black PVC saturation coating provides further chemical and mechanical, as well as ultraviolet protection.

The following are Index Property test values for the **STRATAGRID** product line.

Date: January 1, 2001

STRATAGRID

Property	Test method	Units	150	200	300	400	500	550	600	700
Geometry	Rib/Strand Count	Measured	(min)							
	-MD		number/ft	12.0	13.9	15.8	7.8	7.7	7.7	8.0
	-CMD		number/ft	12.0	15.4	7.1	7.3	3.8	7.6	3.9
	Aperture Size	ID Calipered	(nom)							
	-MD		inches	0.90	0.68	1.56	0.97	2.30	0.70	2.09
	-CMD		inches	0.90	0.65	0.60	1.00	1.00	1.10	0.96
	Open Area		%(nom)	80%	65%	74%	55%	55%	55%	60%
Thickness	ASTM D1777	(nom)								
-Rib/Strand		inches	0.045	0.055	0.052	0.053	0.050	0.055	0.059	
-Junction		inches	0.047	0.057	0.066	0.061	0.060	0.060	0.066	
Weight	ASTM C3776	oz/yd ²	6.0	9.5	10.0	13.7	12.5	13.5	14.5	
Strength	Wide Strip	ASTM D4595	(min)							
	-MD		lbs/ft	1,560	2,720	3,000	4,600	4,600	6,240	
	-CMD		lbs/ft	1,560	1,600	1,000	3,600	1,800	1,800	
	Creep Reduced Strength		(min)							
	-MD		lbs/ft	969	1,689	1,863	2,857	2,857	3,876	
	-CMD		lbs/ft	969	994	621	2,236	1,118	1,118	
	Long Term Design Strength	GRI-GG4	(min)							
-MD		lbs/ft	800	1,395	1,540	2,360	2,360	3,200		
-CMD		lbs/ft	800	808	505	1,818	909	909		
Identification	Roll Size	Width x Length	feet	6 x 150	6 x 300	6 x 300	6 x 150	6 x 150	6 x 150	
		Area	sq. yds	100	200	200	100	100	100	
		Weight	pounds	45	130	135	100	95	100	
	Style Number				GB-3022	GB-4024	GB-6033	GB-6037	GB-10027	

- (1) (min) = Minimum acceptable value (i.e. lowest average roll).
- (2) MD = Machine Direction, running along the roll length.
- (3) CMD = Cross Machine Direction, running across the roll length (i.e. running along the roll width).
- (4) Aperture Size = Maximum inside dimension measured by calipers in each direction.
- (5) (nom) = Nominal value
- (6) Open area measured without magnification. Calculated from calipered measurements.
- (7) ASTM Method D4595 adapted to geogrids.