

ENVIROSLOPE GEOWEB® FACE

The Enviroslope® System with a Geoweb® slope cover is an economical system to create attractive vegetated reinforced soil slopes and is recommended for slopes up to 45 degrees. This system is very fast to construct compared to a geogrid wrapped face system and can protect vegetative mass on a steeper slope.

April 2023		GeoWeb		
Material Properties	Cell Size	Units	GW20V	GW30V
	Material Thickness	mil/mm	50 /1.27	50 /1.27
	Polymer Density (ASTM D 1505)	lbs/ft ³ g/cm ³	58.4 -60.2 0.935 - 0.965	58.4- 60.2 0.935 - 0.965
	Nominal Dimension (one cell)	in mm	8.8 x 10.2 224 x 259	11.3 x 12.6 287 x 320
	Section Length (min to max)	ft	12.0 to 27.3 3.7 to 8.3	15.4 to 35.1 4.7 to 10.7
	Section Width (min to max)	ft m	7.7 to 9.2 2.3 to 2.8	
	Connection Material		Polyethylene ATRA Key	
	Carbon Black Content	%	1.5 - 2 by weight	
	Min. ESCR (ASTM 1693)	hr	5000	

Note: All styles available in 3 in, 4in, 6in and 8in depths. ATRA Anchors and Geosynthetic tendons are also available. Contact Layfield for details.

April 2023		Geoweb Seam				
Material Properties	Cell Height	Units	3"	4"	6"	8"
	Minimum Seam Strength	lb/N	240/1060	320/1420	480/2130	640/2840

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E'Grid Biaxial PP Geogrids - Metric Values

Material Properties		E'GRID ¹ 2020	E'GRID ¹ 3030	E'GRID ¹ 4040	
	Aperture Size (mm) Typical		40 x 40	40 x 40	37 x 37
	Wide Width Tensile (kN/m) MD/CD	ISO 10319	20	30	40
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	Strength @ 2% Strain (kN/m) MD/CD	ISO 10319	20	30	40
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	Strength @ 5% Strain (kN/m) MD/CD	ISO 10319	7.6	11	14.5
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	Strength @ 5% Strain (kN/m) MD/CD	ISO 10319	7.6	11	15
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Junction Efficiency (%)	GRI GG2	> 95	> 95	> 95	
Flexural Rigidity (mg-cm)	ASTM D 1388	800,000	3,000,000	4,300,000	
Torsional Stiffness (kg-cm/degree)	US Army COE	3.5	5.8	7.3	
Roll Size (m)		3.9 x 100	3.9 x 75	3.9 x 50	
Roll Weight (kg) Typical		78	88	84	

Note1 - Carbon black minimum content is 2% for high UV Resistance

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E'Grid Uni-axial Geogrids (HDPE) – Metric Values

Material Properties	ASTM	E'GRID 50R	E'GRID 65R	E'GRID 90R	E'GRID 110R	E'GRID 130R	E'GRID 170R	
	Wide Width (kN/m) MD	D6637 Ultimate	29	51	68	86	108	139
	Creep Reduced Strength(kN/m)	D5262	18	32	43	55	68	88
	LTDS (kN/m)	ISO 13431 + ISO TR 20432						
	Sand, Silt and Clay		20.7	26.3	34.5	43.6	54.3	65.0
	Roll Size (m)		1.0 x 50	1.0 x 50	1.0 x 50	1.0 x 50	1.0 x 50	1.0 x 50
	Roll Weight Typical (kg)		15	20	28	39	46	55

NOTE: The Long-Term Design Strengths (LTDS) are calculated using product specific reduction factors based on independent testing. Carbon black minimum content is 2% for high UV light resistance.

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Mirafi Uniaxial Geogrids - Metric Values

Material Properties	ASTM	2XT ²	3XT	5XT	7XT	8XT	10XT	20XT	22XT	24XT	
	Wide Width (kN/m) MD	D6637 Ultimate	29	51	68	86	108	139	200	300	400
	Creep Reduced Strength(kN/m)	D5262	18	32	43	55	68	88	127	190	253
	LTDS (kN/m) ¹	GRI GG4 (b)									
	Sand, Silt, Clay ¹		16	28	38	47	59	76	110	164	219
	Roll Width (m)		3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	Roll Length (m)		46	46	46	61	61	61	61	61	61
	Roll Weight(kg)		46	54	56	75	85	107	157	226	261

Note¹ Refer to manufacturers Long Term Design Strength (LTDS) Reduction factors listed on Layfield website.

Note² Values shown for 2XT are both machine and cross-machine direction. Values for other products are machine direction only.

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