ENVIROSLOPE STACKED GEOWEB

The EnviroSlopeTM System with stacked (tiered) Geoweb® sections is an economical solution to create attractive vegetated reinforced soil slopes and is recommended for slopes up to 70 degrees. The facing material for this option is the Geoweb cellular confinement material 150 mm high at each level, three cells deep, and stacked and stepped back each layer to create the slope required. The front cells are filled with seeded topsoil during construction. Uniaxial geogrid soil reinforcement is typically installed as required by the design to construct the steepened slope to the required slope angle. The EnviroSlope steepened slope structures provide advantages in right of way and reduced space that could not be achieved with the slope of an unreinforced embankment. The system offers environmental advantages over typical MSE block walls by allowing stormwater to collect in the open front facia.

April 2023		Geoweb
	ASTM	**Product Type**
Material		UV Stabilized Polyethylene
UV Stabilization		1.5% Carbon Black or 1% HALS
Material Thickness	D5199	1.27 mm (50 mil)
Density	D1505	0.935 g/cm^3 (58.4 lbs/ft^3)
Short Term Peel Strength		2130 N (480 lbs)
10,000 Hr. Seam Peel Strength		716 N (160 lbs)
ESCR	D1693	5000 hours
Cell Length		267 mm (10.5 inches) +/-10%
Cell Width		330 mm (13 inches) +/- 10%
Nominal Depth		150 mm (6 inches)
Front Fascia Colors Available		Tan or Green
Section size (3 cell X 8 cell)		0.8 m X 2.64 m X 0.15 m
Section size (4 cell X 8 cell)		1.07 m X 2.64 m X 0.15 m

Material Properties

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April 2023	Mirafi Uniaxial Geogrids -Metric Values								
	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, Clay1		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.

April 2023	E'Grid Uni-axial Geogrids (HDPE)					
	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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