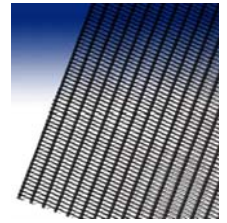




Microgrid



3904 Virginia Ave • Cincinnati, Ohio 45227 • Phone (513) 271-6000 • Fax (513) 271-4420

Bi-Axial Knitted Geogrid

A finely-knitted polyester, saturation-coated geogrid with an open structure. It provides excellent interlock with soils while maintaining high permeability. MicroGrid is precision knitted with diagonal "stabilizer" tie yarns and impregnated with PVC, resulting in a stable finished product that is easy to handle and install. Microgrid is a biaxial geogrid, with equal tensile strengths in both the machine (MD) and cross machine direction (CMD).

The small apertures of MicroGrid allow the product to be used as a face wrap due to its excellent soil retention properties. Its permeability promotes the rapid establishment of vegetation, while its low creep makes it resistant to the "sagging" that often occurs with lower strength materials. When used as an internal reinforcement, the aperture size provides superb interlock with a wide range of soils while allowing water to migrate through the soil. Easy to install, MicroGrid represents a new class of geosynthetics for soil reinforcement.

PROPERTY	TEST METHOD	ENGLISH	METRIC
Ultimate Strength	ASTM D-6637 METHOD A	2000 lbs/ft	29.2 kN/m
Creep Limited Strength	ASTM D-5262	1149 lbs/ft	16.8 kN/m
Long Term Design Strength (LTDS)	FHWA NHI-00-043		
	Sand, Silt & Clay	871 lbs/ft	12.7 kN/m
	¾" minus angular aggregate	lbs/ft	kN/m
	1.5" minus angular aggregate	lbs/ft	kN/m

PROPERTY	ENGLISH	METRIC
Roll Dimensions (Width X Length)	8ft x 225ft	2.44m x 68.6m
Area	200 Square Yards	167 Square Meters
Roll Weight	100 lbs	45.40 kg

REDUCTION FACTORS FOR INSTALLATION DAMAGE & DURABILITY	
RF _{installation damage} (Sand, Silt & Clay, D ₅₀ < 0.6mm)	1.20
RF _{installation damage} (¾" minus angular aggregate, D ₅₀ < 6mm)	1.30
RF _{installation damage} (1.5" minus angular aggregate, D ₅₀ < 20mm)	1.40
RF _{durability}	1.10
SOIL INTERACTION COEFFICIENTS FOR PULLOUT (C _i) & DIRECT SLIDING (C _{DS})	
Sand/Clay (ML, CL)	0.6 - 0.7
Sandy Silts & Clay (SC, GC)	0.7 - 0.8
Uniformly-Graded Sands, Silty Sand (SP, SM)	0.8 - 0.9
Gravel, Sand Gravel Mix, Well-Graded Sand (SW, GP, GW)	0.9 - 1.0

The above information is to the best of our knowledge accurate, but is not intended to be considered as a guarantee. Any implied warranty for a particular use or purpose is excluded. If the Product does not meet the above properties, and notice is given to US Fabrics, Inc., the product will be replaced or refunded. (1/2009).