



TECHNICAL DATA SHEET

MACGRID® WG12 Polyester Geogrid

MacGrid® WG12 is a geogrid for soil reinforcement, made from high molecular weight, high tenacity polyester multifilament yarns. The yarns are woven under tension in the machine direction and finished with polymeric coating. MacGrid® WG12 is engineered to be mechanically and chemically durable, and resistant to biological degradation.

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE ¹
			MACHINE DIRECTION
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/ft)	120.0 (8222)
Tensile Strength (at 5% strain)	ASTM D 4595	kN/m (lbs/ft)	30.0 (2055)
Creep Reduced Strength ²	ASTM D 5262	kN/m (lbs/ft)	73.6 (5044)
Long Term Allowable Design Load ³	GRI GG4	kN/m (lbs/ft)	61.4 (4207)

PHYSICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUE
Grid Aperture Size (machine direction)	--	mm (in)	65 (2.56)
Grid Aperture Size (cross machine direction)	--	mm (in)	20 (0.79)
Roll Dimensions (width x length)	--	m (ft)	3.65 (12.0) x 100 (328)
Roll Area	--	m ² (ft ²)	365 (3936)

1. Note: Minimum average roll values represent a 97.5% confidence level, calculated as the mean minus two standard deviations. Fifty percent of test values will exceed the typical value listed above.

2. Note: Creepage Reduction factor used to determine the LTDS has been evaluated at breakage.

3. Note: Long Term Allowable Design values are for sand.

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