

MacGrid® WG20 Soil Reinforcement Geogrid

Product Description

MacGrid® WG20 is a geogrid for soil reinforcement. This high performance geogrid is constructed of high molecular weight, high tenacity polyester yarns woven under tension and utilizing a polymeric coating process to provide superior engineering properties. MacGrid WG20 geogrid is engineered to be mechanically and chemically durable, in both the construction phase and in aggressive soil environments (pH range 3-9).

DESIGN/ MECHANICAL PROPERTIES (MARV) ^{1,2,3}	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE
Tensile Strength (at ultimate) - MD	ASTM D 6637	lb/ft (kN/m)	13,687 (200)
Tensile Strength (at 5% strain) - MD	ASTM D 6637	lb/ft (kN/m)	6,844 (100)
Creep Reduced Strength - MD	ASTM D 5262	lb/ft (kN/m)	9,553 (139.5)
Long Term Allowable Design Load - MD	GRI GG4 (b)	lb/ft (kN/m)	8,271 (120.8)

PHYSICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUE
Grid Aperture Size (MD)	—	in (mm)	0.7 (19)
Grid Aperture Size (CMD)	—	in (mm)	1.1 (28)
Roll Dimensions (width x length)	—	ft (m)	12.8 x 328 (3.9 x 100)
Roll Area	—	ft ² (m ²)	4,198 (390)

NOTES:

- Minimum Average Roll Values (MARV) for machine direction unless otherwise noted. MARV calculated as the Mean minus (2) standards deviations.
- LTDS or $T_{ai} = T_{ULT} / RF_{CR} \times RF_{ID} \times RF_{CD} \times RF_{BD} \times RF_{JNT}$; for Sandy Soil $D_{MAX} \leq 3.5\text{mm}$, $D_{50} < 1\text{mm}$. Installation damage factor for other soils available upon request.
- MD - Machine Direction of roll

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

MACCAFERRI

www.maccaferri-usa.com

Headquarters:
10303 Governor Lane Boulevard
Williamsport, MD 21795-3116
Tel: 800-638-7744
Fax: 301-223-6134
info@maccaferri-usa.com

MACCAFERRI INC.

AZ, Phoenix	MO, St. Louis	PR, Caguas
CA, Sacramento	NJ, Iselin	TX, Lewisville
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