

MacGrid® WG5 Soil Reinforcement Geogrid

Product Description

MacGrid® WG5 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 WG5 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) | 3,764 (55) |
| Tensile Strength (at 5% strain) - MD | ASTM D 6637 | lb/ft (kN/m) | 1,916 (28) |
| Creep Reduced Strength - MD | ASTM D 5262 | lb/ft (kN/m) | 2,627 (38.3) |
| Long Term Allowable Design Load - MD | GRI GG4 (b) | lb/ft (kN/m) | 2,296 (33.5) |

| PHYSICAL PROPERTIES | TEST METHOD | UNIT | TYPICAL VALUE |
|----------------------------------|-------------|-----------------------------------|------------------------|
| Grid Aperture Size (MD) | — | in (mm) | 0.9 (24) |
| 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

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