



## MSS Grade 3

### Bi-Directional

This letter is to certify that MSS Grade 3 Geogrid meets or exceeds the standards for Geogrid as set by National Concrete Masonry Association (NCMA).

MSS Grade 3 Geogrid is composed of high molecular weight, high-tenacity multifilament polyester yarns that are woven into a stable network placed under tension. These yarns meet the requirements for molecular weight and CEG's as established by US Department of Transportation. The high strength polyester yarns are coated with a PVC material. MSS Grade 3 Geogrid are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis, and acids. MSS Grade 3 Geogrid are typically used for soil reinforcement applications such as retaining walls, steep slopes, embankments, sub-grade stabilization, and embankments over soft soils and waste containment applications.

MSS Grade 3 Geogrid use 100% virgin resin with NO regrind material. The polyester yarns have a minimum molecular weight of 25,000 g/mol and a CEG of less than 30.

| TENSILE PROPERTIES                          | TEST METHOD | MARV VALUES (LBS/FT) |
|---|-------------|----------------------|
| Ultimate Strength                           | ASTM D 6637 | 2025                 |
| Creep Limited Strength                      | ASTM D 5262 | 1341                 |
| T <sub>al</sub> = Long Term Design Strength | NCMA 97     | 1161                 |
| Aperature Size(ins.)                        | Measured    | 1.00 x .79 in        |

RF Creep - 1.51 RF Durability - 1.1 RF Installation Damage 1.05 (Soil Type 3 and type 2)

#### MADE IN THE USA!

MSS Geogrids have been tested in accordance with FHWA, NCMA and Geosynthetic Research based on 10,000-hour creep testing, GRI GG2 junction testing, Coefficient of interaction and geogrid pull out testing in accordance with GRI GG5 and installation damages testing WSDOT Method 925. In addition, NCMA connection testing with several segmental wall systems is also a part of our testing process. Reduction factors listed above are all based on specific testing. All MSS geogrids are delivered in UV protected wrap. Labels are attached to the commercial sized grid rolls indicating geogrid style, roll number. The roll number is recorded, and all physical test data is filed according to roll numbers.