1. GEOGRID [622] (REVISED 2-27-14 M)

Description. This work is the furnishing of labor, equipment and materials to construct a geogrid layer as detailed in the plans or as directed in writing by the Project Manager.

Materials. Provide geogrid manufactured using long-chain synthetic polymers, composed of at least 95 percent by weight of polyolefins, polyesters, or polyamides. Fabricate the geogrid into a stable network such that the ribs, filaments, or yarns retain their dimensional stability relative to each other, including selvages. Conform to the Geogrid Property Requirements Table for subgrade stabilization geogrid property values. All property values, with the exception of maximum opening size represent minimum average roll values (MARV). Identify, store, and handle geogrids according to ASTM D 4873.

GEOGRID PROPERTY REQUIREMENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Test Methods | Units | Required Value1,2 |
| Ultimate Tensile Strength | ASTM D 6637 | lb/ft (kN/m) | Enter Value. |
| Tensile Strength at 2% Strain | ASTM D 6637 | lb/ft (kN/m) | Enter Value. |
| Geogrid Percent Open Area | CW-02215 | % | Enter Value. |
| Minimum Opening Size | Direct measure with caliper | in. (mm) | Enter Value. |
| Maximum Opening Size | Direct measure with caliper | in. (mm) | Enter Value. |
| Junction Strength | GRI GG23 | lb (N) | Enter Value. |
| Ultraviolet Stability | ASTM D 4355 | % at 500 hrs | Enter Value. |

Notes:

Values, except Ultraviolet Stability, are MARVs (average value minus two standard deviations).

Minimum strength direction

Geosynthetic Research Institute (Drexel University, Philadelphia, PA) GG2 Individual Geogrid Junction Strength

Construction. Install geogrid in accordance with the manufacturers recommendations. Place geogrid above geotextiles when both are specified, shown or directed by the Project Manager in the contract.

Follow the requirements of Subsection 622.02.4 for shipping, storage and compliance.

Measurement. Geogrid is measured by the square yard (square meter) as staked by the Project Manager. Measurement excludes laps, seems, and joints.

Basis of Payment. Payment at the contract unit price per square yard (square meter) is full compensation for all resources necessary to complete the work.