

Standard Guidelines for Product Review
Subgrade Reinforcement Geogrids;
Section 02320.10

December 7, 2010

02320.10 – Subgrade Reinforcement Geogrids

ODOT maintains a list of approved subgrade reinforcement geogrids on the Qualified Product List (QPL). These products are for use in mechanical stabilization of unstable materials.

Subgrade reinforcement geogrids shall consist of a regular network of integrally connected polymer tensile elements with aperture geometry sufficient to permit adequate mechanical interlock with the surrounding soil or rock. Subgrade reinforcement geogrids shall be dimensionally stable and able to retain their geometry under manufacture, transport, and installation.

To Apply for inclusion on the QPL, submit the following information for each product that you wish us to evaluate:

- [Preliminary Information for Product Evaluation Form.](#)
- Independent Test Results showing compliance with Specs listed below. Provide test results measured in both the machine and cross-machine direction.
- Furnish a current list of 5 recent projects utilizing the type of geogrid. Include names and contact information for the owner of the projects.
- Submit 3 product samples. (6" by 8")

Specifications: The minimum average roll values determined in accordance with ASTM D4759 shall meet or exceed each of the following property values when tested in the weakest principal direction:

1. Aperture Size (Nominal value)
Minimum 1 inch, maximum 1.5 inch
2. Tensile Strength at 2% Strain (ASTM D6637)
Minimum 410 lb/ft
3. Ultimate Tensile Strength (ASTM D6637)
Minimum 1,300 lb/ft
4. Junction Strength (GRI-GG2)
Minimum 60 lb/junction

Submit documentation to:

Oregon DOT – Materials Laboratory
Product Evaluation Coordinator
800 Airport Rd SE
Salem, OR 97301-4798

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>