

Uniaxial Geogrid



Description

Uniaxial (UX) Geogrids are made from select grades of high-density polyethylene (HDPE) resins that are highly oriented and are designed to resist elongation (creep) when subjected to heavy loads for long periods of time. These geogrids are also highly resistant to installation damage as well as long-term chemical or biological degradation. In fact, UX Geogrids have shown no degradation in soils with pH levels measuring as high as 12 and can be used in both dry and wet environments. Given the inert properties of HDPE resins, they can be designed for use with a variety of backfill materials, including on-site soils and recycled concrete.

Uniaxial Geogrids can carry high tensile loads applied in one direction (along the roll). Their open aperture structure interlocks with fill material to provide superior load transfer from soil to geogrid. These geogrids are made by punching and drawing a homogenous polymer sheet to create a uniform product that does not require weaving, coating or welding to maintain structural integrity. This results in superior junction strength, which allows durable connection to other rolls of installed geogrid or to facing components.

Features

- Easy to handle and install,
- Uniaxial Geogrids are used for high-strength soil reinforcement in wall and slope applications;
- More than 100 million square feet of grade separation structures in service today are reinforced with them.