



Installation Guideline: BaseGrid Geogrids

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INSTALLATION PROCEDURES

1) PREPARATION

The engineer should verify the subgrade is ready for geogrid placement and that elevations are as indicated on the contract drawings. The surface should be fairly smooth and free of stumps, sharp objects and debris that may damage the geogrid. Tree stumps should be cut at ground level.

2) INSTALLATION

Unroll geogrids on the subgrade and apply tension by hand to eliminate wrinkles. Geogrid panel overlap requirements, either side-by-side, or end-to-end, should depend on the strength of the subgrade. For very soft subgrade (with CBR <1), 3 feet overlap is recommended. For soft subgrade (with CBR = 1-2), 2 feet overlap is recommended. For firm subgrade (CBR > 2), 1 foot overlap is recommended. Adjacent geogrid rolls should be overlapped in the direction of anticipated fill spreading.

3) BASE MATERIAL PLACEMENT OVER GEOGRID

A) OVER FIRM SUBGRADE

When applying the fill material over firm ground (CBR > 2), rubber tire trucks (end and belly dumps) can drive directly on the geogrid at very slow speeds (less than 5 mph) and dump the fill material as they go. Operators must not turn or make any sudden stops when driving across the geogrid. Tracked vehicles cannot be driven directly on the geogrid. A minimum of four inches of fill material should be placed between the geogrid and tracks.

B) OVER SOFT SUBGRADE

In applying fill material across soft ground (CBR between 1-2) and very soft ground (CBR <1), no equipment can drive directly on the geogrid. A minimum of four inches of fill is required between the geogrid and the operating vehicles. Tight turns, sudden stops, or spinning of tracks is prohibited.

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Low ground pressure tractors and low tire pressures (less than 4 psi) are recommended for hauling and spreading fill over soft subgrade. Back dump specified fill materials onto the geogrid where the subgrade is most stable and then spread the fill over the geogrid out toward the weaker subgrade. Haul trucks should not drive on the fill material until the total compacted fill thickness has been achieved. Any ruts developed during spreading or compacting must be filled with additional fill material to reach the design thickness. Base course material should be placed in the lift thickness and compacted in accordance with the design requirements.

4) REPAIR

Geogrid sections damaged during installation must be repaired by patching. Place a geogrid patch to cover damaged geogrid area and extend 3 feet beyond in all directions.

5) PROTECTION

The geogrid should be protected from long-term exposure to direct sunlight during transport and storage. After placement, the geogrid should not be left uncovered for more than three 3 weeks.

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