

INSTALLATION

Please refer to ASTM D7180, "Standard Guide for use of Expanded Polystyrene (EPS) Geofoam in Geotechnical projects."
For most applications utilizing solid subgrades the following guidelines apply.

SUBGRADE PREPARATION

1. Clear and grub site.
2. Excavate existing soil if required.
3. At design engineer's discretion, place geotextile over graded surface, i.e., soft soils, etc.
4. Dewater site as required.
5. Place a sand pad/leveling course over the prepared surface, 2" (50 mm) thickness minimum. Level to +1/2" per 10' (10 mm per 3 meters) horizontal. Sand pad surfaces should be above ground water level at time of R-Shield Geofoam placement.

PLACEMENT

1. At time of material delivery, verify identification marks on face of the product. Use material of proper Type only and as specified. Field sampling and testing of the R-Shield Geofoam will be as specified by the Engineer. Properties of density and compressive resistance shall be verified in accordance with the specification.
2. Material is placed as required by the engineer and as shown on the drawings.
3. Blocks of R-Shield Geofoam should be placed tightly on the prepared sand pad/leveling course (sand must not be frozen). If multiple layers of R-Shield Geofoam are required, orient successive layers of blocks at 90° to previous layer. Offset block joints between layers.
4. Geofoam must receive temporary ballast during all phases of construction to prevent displacement by wind or high water conditions.
5. In order to facilitate construction during precipitation or when frost or icing is encountered, horizontal restraint between layers of R-Shield Geofoam may be desired. Use of GeoGripper Plates placed between horizontal layers of blocks should occur. Consult GeoGripper Plate literature for plate specifications.
6. Commence with the placement of permanent overlying materials as quickly as practical.
7. In pavement design for cold regions where differential icing may occur, provide an adequate thickness of a well graded (must contain a high degree of fines) subbase mix which will retain moisture. Most designs are adequate with sub-base thickness of 20" to 32" (500 mm to 800 mm) placed over the R-Shield Geofoam.

Disclaimer

Guidelines provided herein give basic information and illustrate examples of R-Shield Geofoam installation. The basic information provide herein is not intended to cover every potential use and application of the R-Shield Geofoam. It is the responsibility of the installer to become familiar with his specific application and determine if the R-Shield Geofoam is suitable. By commencing work, the installer accepts full responsibility for the proper and safe installation of R-Shield Geofoam at his job site. Furthermore, it is the sole responsibility of the installer to meet all federal and local regulatory requirements for job site safety for himself, his workers and any others on the job site while in the execution of all phases of the R-Shield Geofoam installation.

Notice: R-Shield EPS insulation contains a flame retardant; however, it should be considered combustible and should not be exposed to sources of ignition. The product will ignite when exposed to open flame or welding torches.