

1732 – GEOFOAM

SECTION 1732

GEOFOAM

1732.1 DESCRIPTION

This specification covers the geof foam lightweight Expanded Polystyrene (EPS) fill for use at locations as designated in the Contract Documents. This includes lightweight embankment fill and abutment drainage systems.

1732.2 MATERIALS

a. **General.** Provide EPS blocks complying with ASTM D 6817 designated EPS 22 or higher with the minimum requirements in **TABLE 1732-1**:

Property	Requirement
Density	1.35 lb/cu ft;
Compressive Resistance	7.3 psi at 1% deformation
Flexural Strength	35 psi

Use EPS blocks in standard sizes that are typically from 4 feet wide x 2.5 feet thick x 8 to 16 feet long. Treat all EPS blocks with a tested and proven EPA registered material complying with ICC ES EG239 for termite treatment with a minimum 3 year field exposure limit.

Provide a minimum of 4 Geogripper Plates per block to restrain the EPS from moving laterally in layer over layer applications. Make the plate of galvanized or stainless steel with two-sided multi-barbed design capable of piercing the EPS. Make each plate capable of holding a lateral load of 60 lbs.

Use Grade 2.5 concrete for the cap that complies with the **SECTION 401**.

b. **Abutment Drainage System.** Provide EPS blocks complying with ASTM D 6817 designated EPS 12 or higher.

1732.3 TEST METHODS

Test in accordance with ASTM D 6817.

1732.4 PREQUALIFICATION

None required.

1732.5 BASIS OF ACCEPTANCE

a. Receipt and approval of a Type B certification as specified in **DIVISION 2600**.

b. **Verification Testing.** Perform of random sampling and testing for compressive strength and density in accordance with **TABLE 1732-2**. Failure of the samples to meet the compressive strength or density specification will serve as a basis for rejection of the entire lot.

Embankment Volume (cubic yards)	Number of EPS Blocks Sampled
< 650	3
650 – 1300	4
> 1300	5