



DIVISION 03 CONCRETE PRE-ENGINEERED EPS BLOCKS

SECTION 03123 – EPS GEOFOAM

PART 1 – GENERAL DESCRIPTION

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections and manufacturer's shop drawings apply to this section.

1.02 SUMMARY

A. Provide EPS Geofoam blocks that have been factory fabricated to fit project dimensions minimizing field cutting and site generated waste.

B. Related Sections include the following:

1. Division 3 Section "Cast-in-Place Concrete" for concrete reinforcing and slabs poured on top of permanent riser forms.

1.03 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide Molded, Rigid Cellular Polystyrene EPS Geofoam Blocks: Comply with manufacturer's requirements, ASTM D6817 or ASTM C578

1. Design Loads: As indicated.

1.04 SUBMITTALS

A. Shop Drawings: Show layout and dimensions of each Geofoam fill area. Indicate location, size, and elevation. Provide cross section of each platform area indicating height and depth of each fill area. Provide plan view of each layer of EPS with each part identified and dimensioned per the Geofoam Component Schedule.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect Geofoam EPS Block as follows:

1. Do not expose to sunlight, except to extent necessary for period of installation and concealment;
2. Protect against ignition at all times;
3. Do not deliver EPS materials to project site before installation time;
4. Complete installation and concealment of EPS materials as rapidly as possible in each area of construction.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Available Manufacturer's: Subject to compliance with requirements, assembly methods that may be incorporated into the work include the following:

Geofoam International LLC
9325 Sky Park Court, Suite 250
San Diego, CA 92123
Phone: 844.773.3626
info@geofoamintl.com
www.geofoamintl.com

2.02 MATERIALS

A. Molded, Rigid Cellular Polystyrene EPS Geofoam Blocks: Comply with manufacturer's requirements, ASTM D6817 or ASTM C578

2.05 FABRICATION

A. Fabricate EPS blocks, square, and true to dimension.

1. Factory cut block for delivery to jobsite and installation without the need for excessive field cutting.

2. Retrofit Projects, fabricate block with slope consistent to existing floor slope;

3. Ramp areas, fabricate block with slope consistent with ramp slope requirements.

B. Marking and Identification: Individual Geofoam EPS blocks shall be marked corresponding to shop drawings for installation

PART 3 - EXECUTION

EXAMINATION

A. Examine supporting substrates and abutting structural framing for compliance with requirements for elevations, installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.01 GENERAL INSTALLATION

A. Install system in compliance with Architects plans and installation/shop drawings as prepared by manufacturer.

B. EPS Geofoam Block Installation: Install blocks in layers and locations as specified on shop drawings. Hold dimensions on shop drawings and Architect's plans.

1. Place non-solvent based adhesive between each layer of EPS to tack in place during assembly;

NOTE: Do not weld with torch in the same room as installed or stored EPS. Protect EPS against ignition at all times.

END OF SECTION