



**GEOFOAM  
3-PART SPECIFICATION IN ACCORDANCE WITH  
CONSTRUCTION SPECIFICATION INSTITUTE (CSI)  
GUIDELINES**

**SECTION 31 23 00 Excavation & Fill**

**Rev #0609**

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**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Section Includes: Lightweight Expanded Polystyrene GeoFoam

**1.02 REFERENCES**

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated.

- B. American Society for Testing and Materials (ASTM):

1. ASTM D6817-07: Standard Specification for Rigid Cellular Polystyrene GeoFoam.

**1.03 SYSTEM DESCRIPTION**

- A. Performance Requirements: Provide termite resistant lightweight expanded polystyrene GeoFoam which has been manufactured and installed to withstand loads [ Specify code/standard reference. ] and to maintain [ Specify performance criteria. ] performance criteria stated by manufacturer without defects, damage or failure.

**1.04 SUBMITTALS**

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

- B. Product Data: Submit product data, including manufacturer's Product DataSheet.

- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components.

- D. Quality Assurance Submittals: Submit the following:



1. Test Compliance: Summary of test compliance with specified performance characteristics and physical properties.

## 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.

B. Regulatory Requirements: [ Specify applicable requirements of regulatory agencies. ]

*Specifier Note: (1) Installation must comply with the requirements of all applicable local, state and national jurisdictions. (2) Approvals: EPS (GeoFoam) is made to exacting standards monitored by Underwriters Laboratories. Contact R-Control for applicable compliance information.*

C. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, substrate conditions, installation instructions, and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.

## 1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirements Sections.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original packaging with identification marks intact.

D. Storage and Protection: Store materials protected from damage.

*Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.*

END OF SECTION

## PART 2 PRODUCTS

*Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards, and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal," or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.*



## 2.01 GEOFOAM

- A. Manufacturer: Dyplast Products.
- Contact: 12501 NW 38th Avenue, Miami, FL 33054; Phone Direct: **(305) 921-0100** Toll-Free: **800-433-5551** Fax: (305) 687-8013 Email: [info@dyplastproducts.com](mailto:info@dyplastproducts.com)
  - Dyplast Products Plant Facility [Same as above ]
- B. Proprietary Product(s): **dP™** GeoFoam.

Specifier Note: (1) Please refer to **dP™** GeoFoam DataSheet for detailed performance properties. (2) Limitations: EPS contains a flame retardant additive; however, it should be considered combustible. It should not be stored near open flames or any source of ignition.

Expanded Polystyrene Block: Expanded polystyrene block shall be “**dP™** GeoFoam” as manufactured by an Dyplast Products. The EPS Block shall conform to ASTM D-6817 and shall be Type [ Specify ] with a density of [ Specify ] lbs per cubic foot and a minimum compressive stress of [ Specify ] at 1% deformation. The other properties shall be as follows:

Thermal Resistance (1.0 in. thickness), min.

At 40F	[ Specify ] F ft2 h/BTU
At 75F	[ Specify ] F ft2 h/BTU
Compressive Strength (at 10% deformation), min.	[ Specify ] psi
Flexural Strength, min.	[ Specify ] psi
Modulus of Elasticity, min.	[ Specify ] psi
Dimensional Stability, max.	[ Specify ] %

*Specifier Note: Edit article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division Project Requirements (Product Substitutions Procedures) Section.*

## 2.02 PRODUCT SUBSTITUTIONS

Substitutions: No substitutions permitted.

## 2.03 RELATED MATERIALS

Related Materials: Refer to other sections for related materials as follows:



## 2.04 SOURCE QUALITY

- A. Source Quality Assurance: Each system component required shall be supplied by manufacturer and shall be obtained from selected manufacturer or its approved supplier.
- B. Source Quality: Obtain EPS GeoFoam from a single manufacturer.

END OF SECTION

## PART 3 EXECUTION

*Specifier Note: Revise article below to suit project requirements and specifier's practice.*

### 3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, and product catalog.

### 3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
  - 1. Verify conditions of substrate, grade and other conditions which affect installation of GeoFoam. Any adverse conditions shall be reported in writing. Do not proceed with installation until adverse conditions are corrected.
  - 2. Verify details prior to starting **dP™** GeoFoam installation.
  - 3. Verify base preparation to support the **dP™** GeoFoam.

### 3.03 PREPARATION

Surface Preparation: [ Specify applicable product preparation requirements. ]

*Specifier Note: Coordinate article below with recommended installation details and requirements.*

### 3.04 INSTALLATION

*Specifier Note: Dyplast Products recommends installation shall be in accordance with published instructions, details and the drawings that are part of the contract documents for project. Conflicts between these documents shall be resolved in writing.*

- A. Installation: [ Specify instructions to suit project requirements. ]



Site Tolerances: [ Specify applicable site tolerances for specified product(s) installation. ]

Related Products Installation: Refer to other sections listed in Related Sections paragraph herein for related products installation.

### **3.06 CLEANING**

A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Remove construction debris from project site and legally dispose of debris.

### **3.07 PROTECTION**

A. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION