

Twining Consulting Inc.

Listing Report—

Geo Foam EPS-19

Date First Published: Aug 2026**Last Updated:** N/A**Renewal Due By:** Feb 2027

This listing has been issued by Twining Consulting Inc. as an ISO/IEC 17065 accredited product certification body based on evaluation, testing, and inspection activities conducted in accordance with its established product certification scheme. Supporting technical data has been reviewed in accordance with ISO/IEC 17025 principles to ensure the reliability of compliance evidence. A certification decision has been made in accordance with Twining Consulting Inc.'s certification procedures, confirming that the product complies with the applicable codes and standards described herein.

The product is subject to Twining Consulting Inc.'s ongoing surveillance program, conducted in accordance with ISO/IEC 17020, which includes periodic follow-up inspections and evaluations to monitor continued conformity with the requirements of this listing.

Field	Information
Product	Geofoam EPS-19
Applicant / Evaluated Entity	Creative Foam Products
Address	1301 E. 8th Street North, N. Little Rock, AR, 72114
Website	www.creativefoamusa.com
Contact Number	(501) 273-3626
Manufacturing Location	1301 E. 8th Street North, N. Little Rock, AR, 72114

1. Introduction

At the request of Creative Foam Products, Twining Consulting Inc. has evaluated the Geofoam EPS-19 for compliance with the relevant requirements for its intended use in lightweight fill and load-bearing geotechnical applications installed at or below grade. The evaluation has been conducted in accordance with the following applicable codes and standards, as adopted by the jurisdictions in question:

- 2024 International Building Code (IBC), Section 2614 — Geofoam
- 2024 International Residential Code (IRC), as applicable to the intended use and installation
- ASTM D6817/D6817M — Standard Specification for Rigid Cellular Polystyrene Geofoam

Scope: This listing report verifies that the Geofoam EPS-19 complies with the applicable provisions of the above codes and standards for its intended use as described herein. It is intended to serve as documentation of product compliance in accordance with code requirements, subject to the conditions and limitations stated in this report.

2. Product Description

The Geofoam EPS-19 is a molded closed-cell expanded polystyrene geofoam block and pad product designed for use as lightweight fill for embankments, slope stabilization, void fill, and similar at-grade or below-grade geotechnical applications. It consists of rigid EPS geofoam blocks or cut pads that function together to ensure proper performance under applicable loading or environmental conditions.

Materials: Manufactured using expanded polystyrene conforming to ASTM D6817 Type EPS19 or equivalent. Corrosion protection is provided via the closed-cell structure of the EPS in accordance with ASTM D6817.

Design: The Geofoam EPS-19 is engineered to perform in compliance with structural, mechanical, or environmental loading conditions applicable to its intended use. The system utilizes compressive bearing resistance of the geofoam to ensure performance under vertical gravity loads in accordance with the requirements of ASTM D6817 and the IBC and IRC, as applicable.

Performance: The components have been tested or evaluated to support up to 5.8 psi (835 psf) at 1 percent strain, or as required by ASTM D6817 Type EPS19. The product is suitable for use in conditions outlined by at-grade and below-grade geotechnical fill applications, when installed per the manufacturer's instructions and applicable code requirements.

Category	Test Method / Condition	Values
Density (minimum)	ASTM D1622	1.15 pcf (18.4 kg/m ³)
Compressive Resistance	ASTM D1621 at 1 percent strain	5.8 psi (835 psf)
Compressive Resistance	ASTM D1621 at 5 percent strain	13.1 psi (1,886 psf)
Compressive Resistance	ASTM D1621 at 10 percent strain	16.0 psi (2,304 psf)
Flexural Strength (minimum)	ASTM C203	30 psi (207 kPa)
Oxygen Index (minimum)	ASTM D2863	24.0 percent by volume

Use Cases: The Geofoam EPS-19 may be used in accordance with applicable federal, state, or local codes. This includes but is not limited to compliance with specific provisions such as:

- IBC Chapter 18, IBC Section 2603, ASTM D6817, and ASCE 7

It may also be used in other engineered applications (e.g., embankments, slope stabilization, void fill, and below-grade lightweight fill), provided the use is consistent with the product's design, limitations, and jurisdictional approval requirements.

3. Installation Requirements

Installation: Installation of the Geofoam EPS-19 must be performed in accordance with Creative Foam Products' published installation instructions and any additional requirements specified in this listing report. All procedures including site preparation, placement, leveling, cutting to fit, and protection from UV and hydrocarbons shall comply with both the manufacturer's guidelines and applicable code provisions. In the event of a conflict between the installation instructions and this listing report, the more restrictive requirement shall apply.

Installer Qualifications: Installation shall be carried out by personnel qualified and experienced in geotechnical fill placement and lightweight fill construction, and familiar with the specific requirements of the Geofoam EPS-19.

Inspection: A copy of this listing report and the manufacturer's installation manual shall be made available on-site for reference by installers or code officials, as required by the authority having jurisdiction.

Site Conditions: The product is intended for use under conditions consistent with those evaluated in its design and testing. This includes placement on a firm, level, prepared subgrade and applied bearing stress not exceeding 5.8 psi (835 psf). If site conditions fall outside the product's evaluated scope such as applied loads exceeding 5.8 psi (835 psf) at 1 percent strain, high groundwater or buoyancy conditions, or exposure to hydrocarbons then site-specific engineering shall be provided by a registered design professional, and acceptance by the local building official may be required.

Supplemental Requirements (if applicable): Where necessary, additional information such as block layout, lift thickness, cover requirements for UV protection, protection from hydrocarbons, buoyancy restraint, thermal-barrier details when used inside a building, or structural diagrams shall be included in the manufacturer's instructions or appended to this listing report.

4. Evidence of Compliance

The following evidence was submitted and evaluated to support compliance of Geofoam EPS-19 with the applicable requirements:

Product Testing: Independent test reports were provided, demonstrating that the Geofoam EPS-19 meets the performance requirements of ASTM D6817 Type EPS19. Testing was conducted to verify density, compressive resistance, flexural strength, and oxygen index in accordance with ASTM D1622, ASTM D1621, ASTM C203, and ASTM D2863.

Supporting test documentation includes:

- Test Report No. 236095.R L5875 Creative Foam- 7.13.2026 – ASTM D6817 Type EPS19 Physical Property Testing (Twining Consulting Inc.)

Quality Documentation: The manufacturer's quality assurance and process control documentation was reviewed by Twining Consulting Inc. An adequate method of component traceability is maintained by the manufacturer, and a follow-up quality control audit program is implemented under Twining Consulting Inc's supervision. This includes bi-annual in-plant inspections (see Section 6) to ensure the product continues to be manufactured in conformity with the approved design and specifications.

(All documentation is on file with Twining Consulting Inc. Testing and evaluation were conducted in accordance with ISO/IEC 17025 and 17020 procedures, as applicable.)

5. Identification and Markings

Each Geofoam EPS-19 device or its packaging shall be marked to facilitate identification and field inspection. Markings must include at minimum:

- The Report Holder's name and one of the approved Twining Consulting Inc Conformity Mark/Logo, the product name/model, and the listing identification number (e.g., *Listing No. [XXXX]*). These markings may be applied via durable labels, stamping, or molding on the product as appropriate.



- **Twining Consulting Inc Conformity Mark/Logo:** The Twining Consulting Inc. listing conformity mark/logo (if applicable) may be applied to the product or packaging, and in the manufacturer's product literature, to indicate the product is listed and under surveillance by Twining Consulting Inc. The official mark of conformity for Twining Consulting Inc. found above. When used, the mark must be applied in accordance with Twining Consulting Inc. guidelines.
- **Traceability Info:** Each product unit or batch shall be clearly marked with identifying information—such as a lot number, serial number, or manufacturing date code—to ensure full traceability. This information must enable verification that the product was manufactured in accordance with the conditions evaluated and should be readily available during inspections. Traceability records shall allow the product to be traced back to its original production and quality control documentation.
- **Website Disclosure Requirement:** Creative Foam Products shall display the Twining Consulting Inc. conformity logo and reference to listing program on its official website to indicate that its quality assurance program is actively monitored by an ISO/IEC 17020 accredited inspection agency (Accreditation No. AA-650). This digital display serves to enhance transparency and promote public assurance of ongoing code compliance and third-party oversight.

Marking Validity Statement: The presence of the required identification indicates that the product has been manufactured under the inspection and quality assurance program of Twining Consulting Inc., in accordance with ISO/IEC 17020. The absence, misuse, or illegibility of the required markings or website reference may render this listing report invalid and may be cause for rejection by the authority having jurisdiction (AHJ).

6. Conditions of Listing (Use Limitations)

For this listing to remain valid and in compliance, the following conditions and guidelines must be observed by the Creative Foam Products, their manufacturing team, and any authorized installers:

1. **Continued Quality Assurance:** The Twining Consulting Inc. follow-up inspection and testing program must be maintained at the prescribed frequency bi-annual, to evaluate the ongoing compliance of the Geofoam EPS-19. Twining Consulting Inc. representatives shall be granted

access to conduct periodic audits at the manufacturing facility to verify that the product continues to meet the requirements of this listing report.

2. Product Traceability: All components of the Geofoam EPS-19 shall be clearly marked (see Section 5. Identification and Markings) with identifying information such as lot numbers, production dates, or batch codes. This ensures full traceability to original production records and is essential for quality control and field inspections.

3. Installation Documentation: Installation instructions and technical documentation provided by Creative Foam Products must be kept current. If applicable codes, standards, or the product design are revised, corresponding updates to the manuals and training materials shall be made. Only the latest approved instructions shall be used by installers and inspectors.

4. Re-evaluation: Re-evaluation or re-testing of the product is required only when there are changes to the product's original design, composition, or intended use. Any such modifications shall be promptly reported to Twining Consulting Inc. for review and approval to ensure continued compliance with this listing report. Failure to notify Twining Consulting Inc. of such changes shall render this listing report invalid as of the date the unapproved change was implemented.

5. Environmental Limitations: The product is intended for use in environments consistent with those specified in this report (e.g., at-grade and below-grade geotechnical fill, protected from prolonged UV exposure and contact with hydrocarbons). Conditions such as prolonged sunlight exposure without cover, contact with petroleum products or solvents, open flame or high heat, or unaddressed buoyancy from high groundwater are outside the scope of this listing unless specifically evaluated. Additional protection or engineering may be required for such applications.

6. Code Compliance at Use Location: The use of Geofoam EPS-19 must be approved by the local building official (Authority Having Jurisdiction). A copy of this listing report and the current installation instructions must be provided to them. If the project has specific conditions like custom plans or unique loads—then additional documents (such as structural calculations or site-specific drawings) must also be submitted to show the product meets code requirements.

7. Design Parameters: The conditions, limitations, and design values provided in this listing report are based on the applicable codes and standards referenced in Section 1 – Introduction. For each project, the design loads, installation details, and application-specific requirements shall be determined in accordance with the locally adopted building code by a registered design professional or other qualified individual.

This listing is valid only when the product is used strictly within the scope and limitations described in this report. Any use of the product beyond the evaluated conditions or for applications not addressed in this report is not permitted and shall be considered non-compliant. Such use renders this listing report invalid and may be grounds for rejection by the Authority Having Jurisdiction.

7. Limitations and Renewal

This listing report is applicable only to the product(s) named and models listed herein, manufactured by the report holder at the location(s) noted. It is not transferable to any other product or manufacturer. Any modifications to the product design, components, or quality control

procedures require notification to Twining Consulting Inc. and may necessitate a re-evaluation or revision of the listing to ensure continued compliance.

Duration: This listing is subject to re-examination and renewal by Twining Consulting Inc. The report is valid up to the Expiration/Renewal Date noted above, provided that all conditions of this report and the applicable surveillance activities are maintained. Prior to the renewal date, Twining Consulting will review the product and quality system for continued compliance. Continuation of the listing after the renewal date is contingent upon successful renewal evaluation and approval by Twining Consulting Inc.

Authority Approval: This report confirms that Twining Consulting Inc. has reviewed the product and determined it complies with the aforementioned requirements, however, the final acceptance of Geofoam EPS-19 for a particular installation is at the discretion of the local building official. This listing report should be used in conjunction with the approved installation plans and applicable code requirements to aid in that approval process. The report holder remains responsible for the proper use of the product and for conforming to all conditions in this report as well as any other code obligations of the jurisdiction.