



Twining Consulting Inc.
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Listing No.
RAD-1368

Twining Consulting Inc. Listing Report

Issued Date: Oct 2022
Revision Date: Feb 2024
Subjected to Renewal: Feb 2027

Product: Expanded Polystyrene
Report Holder: Creative Foam Products
1301 East 8TH Street,
North Little Rock, AR 72114
www.creativefoamusa.com
(501)-273-3623
Plant Location: 1301 East 8TH Street,
North Little Rock, AR 72114

SECTION 1: INTRODUCTION

At the request of Creative Foam Products, Twining Consulting Inc. evaluated their Expanded Polystyrene (EPS) Foam Insulation Board produced Creative Foam Products, and for conformance to the requirements of the model codes, and ASTM C 578-22.

SECTION 2: DESCRIPTION

The listed products are molded, closed cell, expanded polystyrene (EPS) foam insulation boards made from modified beads to achieve a Class 1 flame spread rating in various densities, thicknesses, thermal conductivity values and are available in a variety of sizes and configurations.

Note: *The modified beads which are used are listed by one or more of the Code Bodies for a Class I flame spread rating and smoke development at the thickness and densities stated in the Code Body evaluation report or listing. Twining Consulting Inc. only permits the use of modified expandable polystyrene beads covered by a current valid Code Body evaluation report or listing.*

Their EPS boards are used as insulation in roof systems, exterior walls, interior wall coating systems and ceiling systems. The types of foam boards listed are identified in Table I. Testing for the various types of foam boards is in accordance with applicable sections of ASTM C578.

SECTION 3: INSTALLATION

Installation of EPS boards are to be in accordance with Manufacturer's Specifications and with the respective Model Code Requirements for protection and separation of foam products from the interior of buildings and for maximum thickness limitations, fastening and installation of exterior finish products

over the foam as defined in the Evaluation Service Reports.

SECTION 4: EVIDENCE SUBMITTED

- A) Flame Spread: Reports of tests in compliance with ASTM Standard E 84 (UBC Standard 8-1) for the various bead suppliers, densities, and thicknesses.
- B) Thermal Conductivity Values - Laboratory tests performed by Twining Consulting Inc. in accordance with ASTM Standard C518.
- C) Density, Flexural, Compressive, Dimensional, Dimensional Stability, Water Absorption and Water Vapor transmission values and Oxygen Index; - Laboratory tests are performed in accordance with ASTM C578 by Twining Consulting Laboratory.
- D) Quality Control - Quality control manuals for each listed facility have been developed and evaluated along with an in-plant certification check by Twining Consulting Inc. made to determine the capability to control and develop products in accordance with the requirements and specifications contained in the quality control manual.
- E) Ongoing Audits – 4 inspections per every 3 months will be conducted unannounced to verify that Creative Foam Products, is following their quality assurance program through their quality control manual. Samples selection at random will be conducted at the time of the audit, and they will be sent to Twining Consulting laboratory to ensure that the listed products selected are conforming to the ASTM C578.

SECTION 5: MARKINGS / IDENTIFICATION

Boards are to be Identified with one of the following criteria:

- A) For expanded polystyrene foam used as a component of an Exterior Wall Coating System each insulation board must be identified along one edge (for approved products see Table I) and one board in each package shall be marked on both faces with the following information:
- 1) Product Name:
 - 2) Nominal Density: _____ pcf.
 - 3) Address:
 - 4) Listing Evaluation No. (Ex. RAD-XXXX)
 - 5) Class I Flame Spread Rating
 - 6) Flame Spread and Smoke Developed Rating (FS<25 SD<45) ASTM E-84
 - 7) Lot No.: _____
 - 8) Twining Consulting Inc. name and compliance agency number (AA-650).
 - 9) In addition, the following information is to be included: "Flame Spread and Smoke Developed Ratings derived are not intended to reflect hazards under actual fire conditions".
 - 10) Twining Consulting Inc. Logo



- B) Creative Foam Products will also put Twining Consulting logo on their website to show that their

quality assurance program is being monitored by a ISO/IEC 17020 inspection agency AA-650.

SECTION 6 - RECOMMENDATIONS

Twining Consulting Inc. recommends that the board produced by the Creative Foam Products molder facilities be accepted for the applications described provided that:

- 1) Installation is in conformance with manufacturer's requirements and applicable sections of the Basic Building Code: Southern Building Code and the Uniform Building Code, as applied to foam products.
- 2) Boards and/or bundles are marked as identified in this listing and/or applicable Model Code Evaluation Reports.
- 3) The Quality Control system be maintained in the plant and all changes to the system approved by Twining Consulting Inc.
- 4) Twining Consulting Inc. follow up plant audit and testing program be continued at the prescribed frequencies.

SECTION 7: APPROVAL:

This listing is subject to annual re-examination and renewal.

**TABLE 1
LISTED PRODUCT IDENTIFICATION**

- A) 0.90 pcf min., Type I, Standard, per ASTM C578
- B) 0.95 pcf min., Type I, BASF Construction Chemicals LLC Firestone- ESR-2186, Senergy-ESR-1878
- C) 0.95 pcf min., Type I, Dryvit Systems, Inc, ESR-1232, ESR-1543, ESR-1547 &
- D) ESR-1821
- E) 0.95 pcf min., Type I Parex USA Inc. ESR-2562, ESR-2563,
- F) ESR-1821, Teifs, ESR-1935,
- G) 0.91 pcf min., Type I Sto Corp, ESR-1720, ESR-1748, ESR-1030

Twining Consulting Inc. conducts annual thermal testing from a random selection of these samples. The insulation board molded for use in EIFS (Exterior Insulation Finish Systems) applications shall meet the requirements of ASTM E2430-19. Boards intended for use in EIFS shall also meet the applicable EPS specifications of the EIFS proponent. Where the requirements of ASTM E2430 and the EIFS proponent's EPS specification differ, the latter shall govern.

