



RESOURCES,
APPLICATIONS,
DESIGNS, &
CONTROLS, INC.
3220 E. 59th Street
Long Beach, CA 90805
Tel: (562) 272-7231
Fax: (562) 529-7513

LISTING # 1224

LISTING & TESTING DIVISION

PRODUCT: EXPANDED POLYSTYRENE BOARD

Issued: May 1988
Revised: November 2010
Renewed: November 2014 to
November 2015

MANUFACTURER: DREW FOAM COMPANIES, INC.
1093 Highway 278 East
Monticello, AR 71655

PLANT LOCATIONS: Drew Foam of Arkansas Drew Foam of South Carolina
1093 Highway 278 East (1224-1) 107 Service Road (1224-2)
Monticello, AR 71655 Anderson, SC 29625

CATEGORY: FOAM PLASTIC INSULATION BOARDS

APPLICATION: Insulation for Wall & Exterior Finish Systems, Floor & Roof/Ceiling Systems

SECTION 1: INTRODUCTION

At the request of Drew Foam Companies, Inc., **RADCO** investigated the possibility of listing Expanded Polystyrene (EPS) Foam Insulation Board Material produced by Drew Foam Companies, Inc., and for conformance to the requirements of the model codes, and ASTM C-578-06.

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 and thermal 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. **RADCO** only permits the use of modified expandable polystyrene beads covered by a current valid Code Body evaluation report or listing.

The Boards are used as insulation in roof systems; as part of exterior wall coating systems; and for interior wall and ceiling systems. The types of foam boards listed are identified in Table I. Testing of the various types of foam boards is in accordance with applicable sections of ASTM C-578.

SECTION 3: INSTALLATION

Installation of EPS boards is 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 Evaluation Service Reports.

SECTION 4: EVIDENCE SUBMITTED

- A) Flame Spread: Reports of tests in compliance with ASTM Standard E84 (UBC Standard 8-1) for the various bead suppliers, densities, and thicknesses.
- B) Thermal Values - Laboratory tests performed by **RADCO** in accordance with ASTM Standard C-518.
- C) Densities, Flexural, Compressive, Dimensional, Dimensional Stability, Water Absorption and Water Vapor Transmission values, Oxygen Index; - Laboratory tests performed by **RADCO** in accordance with ASTM C-578.
- D) Quality Control - Quality control manuals for each listed facility have been developed and evaluated along with an in-plant certification check by **RADCO** made to determine capability to control and develop products in accordance with the requirements and specifications contained in the quality control manual.
- E) Ongoing Audit - Ongoing audits of procedures and tests of products are maintained by **RADCO** through unannounced visits to the facilities. Samples of listed products are selected for testing to applicable sections of ASTM C-578. In addition **RADCO** conducts annual thermal testing from a random selection of these samples.

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) Exterior Coating Company name and Evaluation Report number (where applicable).
 - 2) Flame Spread and Smoke Developed Rating (FS<25, SD<450)
 - 3) **RADCO** listing number
 - 4) **RADCO** name and compliance agency number, (AA-650)
- B) For all other applications, the acceptable markings will either be applied to each bundle of EPS boards through use of at least one label or stamped on at least one board per bundle. The marking label is to include:
 - 1) The Molder's Identification (logo, etc)
 - 2) The Molder's name and location
 - 3) "Class I flame Spread Rating"
 - 4) Flame Spread Rating E-84. Less Than 25
 - 5) Smoke Developed E-84) - Less Than 450
 - 6) The **RADCO** logo and compliance agency number (AA-650)
 - 7) **RADCO** identifying listing number
 - 8) Material identification lot numberIn 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".

SECTION 6 - RECOMMENDATIONS

RADCO recommends that the board produced by the PermaTherm, Inc., molding facility be accepted for the applications described provided that:

- 1) Installation is in conformance with manufacturer's requirements and applicable sections of the International Building Code, International Residential Code, 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 ICC-ES Evaluation Reports
- 3) The Quality Control system be maintained in the plant and all changes to the system approved by **RADCO**
- 4) **RADCO's** 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.	.90pcf min., Type I	Standard, per ASTM C 578 ^{1 2}
B.	.95pcf min., Type I	BASF Construction Chemicals, LLC ^{1 2} Acrocrete, ESR-2164 & ESR-2188 Finestone, ESR-2165 & ESR-2186 Senergy, ESR-1794 & ESR-1878 Sonowall, ESR-2163 & ESR-2187
C.	.95pcf min., Type I	Dryvit, ESR-1693, ESR-1232, ESR-1543, ESR-1547 & ESR-1821 ^{1 2}
D.	.95pcf min., Type I	Master Wall, ESR-1181 ^{1 2}
E.	.90pcf min., Type I	ParexUSA, Inc. ¹ Parex, ESR-1689, ESR-2562, & ESR-2563 El Rey and LaHabra, ESR-3186, ESR-3103 and ESR-3204 Teifs, ESR-1935 & ESR-2861
F.	.91pcf min., Type I	STO Corp, ^{1 2} STO, ESR-1720, ESR-1748, ESR-1030 (see note 1)

Note 1- Boards are produced by molders recognized in current evaluation reports issued to the molders. Boards are identified as described in the published reports.

1. Approved for Drew Foam of Arkansas Plant
2. Approved for Drew Foam of South Carolina Plant