



LISTING & TESTING DIVISION

PRODUCT: EXTRUDED POLYSTYRENE THERMAL INSULATION

Issued: November 1995
Revised: April 2014
Renewed: November 2013

MANUFACTURER: Owens Corning Foam Insulation, LLC
1 Owens Corning Pkwy.
Toldeo, OH 43569

PLANT LOCATION: 170 South Avenue / P.O. Box 37 2710 Laude Drive 542 Gaetan Street
Tallmadge, OH 44278 Rockford, IL 61109 Grande-Ile, Quebec, J6S 4V3, Canada

18456 NE Wilkes Road
Portland, OR 97230

CATEGORY: FOAM PLASTIC INSULATION BOARDS

APPLICATION: Insulation for Wall, Floor, Roof, and Below Grade Systems

SECTION 1: INTRODUCTION

At the request of Owens Corning, **RADCO** investigated the possibility of listing Foamular Extruded Polystyrene (XPS) Foam Insulation Board Material produced by Owens Corning, and for conformance to the requirements of the building codes (IBC, IRC), and ASTM C-578.

SECTION 2: DESCRIPTION

The listed products are closed cell, continuous skin, extruded polystyrene (XPS) foam insulation boards made from a blend of crystal polystyrene and other components.

The Boards are used as insulation in wall, floor, roof, and below grade 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 XPS boards are to be in accordance with manufacturer's specifications and with the respective building 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 ICC-ES Reports.

SECTION 4: EVIDENCE SUBMITTED

- A) Flame Spread: Reports of tests in compliance with ASTM Standard E84 (UL 723).
- B) Thermal Values - Laboratory tests performed by **RADCO** in accordance with ASTM Standard C-518.
- C) Densities, Flexural, Compressive & Dimensional Values; Water Absorption and Water Vapor Permeance; Dimensional Stability; 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 ASTM C-578.

SECTION 5: MARKINGS / IDENTIFICATION

Boards are to be Identified with the following criteria:

For all applications, the acceptable markings will either be applied to each bundle of XPS board product through use of at least one label, or stamped on at least one board per bundle. The marking label is to include:

- 1) The Manufacturer's Identification (logo, etc)
- 2) The Manufacturer's plant code or location
- 3) The **RADCO** logo and compliance agency number (AA-650)
- 4) **RADCO** identifying listing number
- 5) Board Type - UM71a.
- 6) Material identification lot number
- 7) UL logo with: UNDERWRITERS LABORATORY INC. CLASSIFIED - See Classification Certificate U-197.

SECTION 6: RECOMMENDATIONS

RADCO recommends that the board produced by the Owens Corning manufacturing facilities be accepted for the applications described provided that:

- 1) Installation is in conformance with manufacturer's requirements and applicable sections of the IBC and/or IRC codes, as applied to foam products.
- 2) Boards and/or bundles are marked as identified in this listing and/or applicable building code evaluation reports, under ICC-ES.
- 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**

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| A. | 1.30 pcf min., Type X FOAMULAR Insulation Products, per ASTM C-578 |
| B. | 1.55 pcf min., Type IV FOAMULAR Insulation Products, per ASTM C-578 |
| C. | 1.80 pcf min., Type VI FOAMULAR Insulation Products, per ASTM C-578 |
| D. | 2.20 pcf min., Type VII FOAMULAR Insulation Products, per ASTM C-578 |
| E. | 3.00 pcf min., Type V FOAMULAR Insulation Products, per ASTM C-578 |