ICC EVALUATION SERVICE®

ICC-ES Listing Report

ESL-1088

Reissued March 2022

This listing is subject to renewal October 2022.

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A Subsidiary of the International Code Council®

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 21 00—Thermal Insulation

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: Expandable Polystyrene (EPS) Beads

Listee: BVPV STYRENICS LLC

Evaluation: The expandable polystyrene (EPS) beads, when molded into EPS insulation products with nominal densities and maximum thicknesses no greater than those specified in Table 1 below, were evaluated when tested to the following standards:

- ASTM E84-09 and ASTM E84-07, Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM International.
- UL 723-2008 and UL723-03 (revisions through May 2005), Standard for Test for Surface Burning Characteristics for Building Materials, Underwriters Laboratories, Inc.

TABLE 1—EPS PRODUCT NOMINAL DENSITY AND MAXIMUM THICKNESS WHEN MADE WITH BVPV STYRENICS BEADS

EPS TYPE[1]	NOMINAL DENSITY (pcf)	MAXIMUM THICKNESS (inches)		
		33M	35M	M77
XI	0.75	—	—	
I	1.0	5	5	6
VIII	1.25	5	5	6
II	1.5	6	6	6
IX	2.0	5	5	6
XIV	2.5	6	—6	6
XV	3.0	—6	—6	6

For **SI:** 1 inch = 25.4 mm, 1 pcf = 16.02 kg/m^3.

[1]Type as designated in ASTM C 578.

Findings: Expandable Polystyrene (EPS) beads, when molded into EPS insulation products, have a flame-spread index of 25 or less and a smoke-developed index of 450 or less, based on testing in accordance with ASTM E84/UL 723, as referenced in the applicable sections of the following code editions:

- 2012 and 2009 *International Building Code®*
  Applicable Section: 2603.3
- 2012 and 2009 *International Residential Code®*
  Applicable Section: R316.3

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

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Identification:

1. Each container of beads must bear a label with the BVPV Styrenics LLC name and address, the bead type, the lot number, the ICC-ES evaluation report number (ESR-1798) and ICC-ES listing report number (ESL-1088), and when applicable, and the ICC-ES Listing Mark.

2. The report holder's contact information is the following:

   BVPV STYRENICS LLC
   400 FRANKFORT ROAD
   MONACA, PENNSYLVANIA 15061
   (724) 770-1000
   www.styropek.com

Installation: The product must be installed in accordance with applicable codes.

Conditions of listing:

1. Additional attributes and their applications can be found in the ICC-ES Evaluation Report, ESR-1798.

2. The listing report addresses only conformance with the standards and code sections noted above.

3. Approval of the product's use is the sole responsibility of the local code official.

4. The listing report applies only to the materials tested and as submitted for review by ICC-ES.