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ICC-ES Listing Report

ESL-1061

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Issued 03/2016

This listing is subject to renewal 03/2017.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 21 00—THERMAL INSULATION

REPORT HOLDER:

ASTOR GROUP LTD.

7F, NO. 200, SEC. 2
JINSHAN S. ROAD, DA'AN DISTRICT
TAIPEI CITY 10643
TAIWAN

EVALUATION SUBJECT:

EXPANDABLE POLYSTYRENE (EPS) BEADS, GRADE F



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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, Grade F

Listee: ASTOR GROUP LTD.
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Evaluation: Expandable Polystyrene (EPS) Beads, Grade F, when molded into EPS insulation boards with nominal densities and thicknesses no greater than those specified in Table 1 below, were evaluated when tested to the following standards:

- UL723-03 (revisions through May 2005), Standard for Test for Surface Burning Characteristics for Building Materials, Underwriters Laboratories, Inc.
- ASTM E84-04, Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM International.

TABLE 1—NOMINAL DENSITY AND MAXIMUM THICKNESS OF EPS PRODUCT MADE WITH ASTOR GROUP BEADS

EPS TYPE ¹	NOMINAL DENSITY (pcf)	MAXIMUM THICKNESS (inches)
I	1.0	5
VIII	1.25	5
II	1.5	5

For SI: 1 pcf = 16.02 kg/m³, 1 inch = 25.4 mm.

¹Type as designated in ASTM C 578-06.

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

- 2006 *International Building Code*®
Applicable Section: 2603.3
- 2006 *International Residential Code*®
Applicable Section: R314.3

Identification: Each container of beads bears a label with the Astor Group Ltd. Name and address, the bead identification, and the ICC-ES Evaluation Report number (ESR-2124) and/or the ICC-ES Listing Report number (ESL-1061).

Installation: The product must be installed in accordance with the Astor Group's published installation instructions and applicable codes.

Conditions of Listing:

1. Additional attributes and their applications can be found in the ICC-ES Evaluation Report, ESR-2124.
2. The listing 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 applies only to the materials tested and as submitted for review by ICC-ES.