



# ICC-ES Listing Report

## ESL-1588

Reissued December 2024

This listing is subject to renewal December 2025.

**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:** EPS SELF-EXTINGUISHING GRADE (NON-HBCD) BRAND: MING DIH EPS

**Listee:** SHINYUAN INDUSTRY CO., LTD.

**Evaluation:** The EPS Self-extinguishing Grade (non-HBCD): Ming Dih EPS expandable polystyrene beads are used by independent manufacturers to produce expanded polystyrene (EPS) insulation products. The expandable polystyrene beads are designated as Ming Dih EPS. The EPS insulation products manufactured from the beads are produced through the introduction of heat. This process expands the beads which are then molded into insulation boards with minimum thickness and thermal resistance values as specified in Table 1 below, were evaluated when tested to the following standards:

- CAN/ULC-S701.1-2017, Standard for Thermal Insulation, Polystyrene Boards, Underwriters Laboratories of Canada (ULC) Standards.

**Findings:** The EPS Self-extinguishing Grade (non-HBCD): Ming Dih EPS expandable polystyrene beads, when molded into EPS insulation boards with the minimum thickness and thermal resistance values as specified in Table 1 below, have met the performance criteria in Table 1 of CAN/ULC-S701.1 as referenced in the applicable sections of the following code editions:

- *National Building Code of Canada*® 2020  
Applicable Section: Volume 2, Division B, Section 9.25.2.2., Item 1(d)
- *National Building Code of Canada*® 2015  
Applicable Section: Volume 2, Division B, Section 9.25.2.2., Item 1(d)

**TABLE 1—INSULATION BOARD PROPERTIES**

| EPS TYPE | MINIMUM THICKNESS (mm) | THERMAL RESISTANCE (R-VALUE) |
|----------|------------------------|------------------------------|
| Type 2   | 25                     | 0.72                         |
| Type 3   | 25                     | 0.75                         |

Listings 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 listing 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 listing, or as to any product covered by the listing.



**Identification:**

1. The ICC-ES mark of conformity, electronic labeling, or the listing report number (ICC-ES ESL-1588), and when applicable the ICC-ES Listing Mark, along with the name, registered trademark, or registered logo of the listee (Shinyuan Industry Co., Ltd) must be included in the product label.
2. In addition, packaging of the EPS Self-extinguishing Grade (non-HBCD): Ming Dih EPS beads are labeled with manufacturing location, the bead type (Ming Dih EPS), and the lot number.
3. The report holder's contact information is the following:

**SHINYUAN INDUSTRY CO., LTD.**  
**1F., NO. 78 QIXIAN 1<sup>ST</sup> ROAD, XINXING DISTRICT**  
**KAOHSIUNG CITY 80053**  
**TAIWAN R.O.C.**  
**+866-8-8686077**  
[www.mingdiheps.com](http://www.mingdiheps.com)  
[shinyuan1034@gmail.com](mailto:shinyuan1034@gmail.com)

**Installation:** Installation must be as noted in the corresponding ICC-ES listing on the EPS insulation product, the insulation board manufacturer's published installation instructions and the applicable code.

**Conditions of listing:**

1. The listing addresses only conformance with the standards and code sections noted above.
2. Additional attributes and their applications can be found in the ICC-ES Listing Report [ESL-1589](#).
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.
5. Products manufactured from the EPS beads must be described in a current ICC-ES listing for compliance with CAN/ULC-S701.1.
6. The EPS Self-extinguishing Grade (non-HBCD): Ming Dih EPS beads are manufactured under a quality control program with inspections by ICC-ES.