



## ICC-ES Listing Report ESL-1373

Reissued August 2024

This listing is subject to renewal August 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:** SEALECTION® 500 SPRAY-APPLIED POLYURETHANE FOAM INSULATION (OPEN-CELL)

**Listee:** HUNTSMAN BUILDING SOLUTIONS

**Evaluation:** SEALECTION® 500 Spray-Applied Polyurethane Foam Insulation (Open-Cell) was evaluated based on tested load bearing wall assemblies consisting of building-material components described in the Design Listings, tested in accordance with the following standards:

- ASTM E119-18B, ASTM E119-16, ASTM E119-12A, Standard Test Methods for Fire Tests of Building Construction and Materials, ASTM International
- UL 263-11 (with revisions through March 2018), UL 263-11 (with revisions through October 2015) and UL 263-11, Standard for Fire Tests of Building Construction and Materials, Underwriters Laboratories, Inc.
- CAN/ULC-S101-14, Standard Methods of Fire Endurance Tests of Building Construction and Materials, ULC Standards.

**Findings:** SEALECTION® 500 Spray-Applied Polyurethane Foam Insulation (Open-Cell) has met the performance criteria in ASTM E119/CAN/ULC-S101 as described in each Design Listing and as referenced in the applicable sections of the following code editions:

- 2021, 2018 and 2015 *International Building Code*®  
Applicable Sections: 703.2
- 2021, 2018 and 2015 *International Residential Code*®  
Applicable Sections: R302
- *National Building Code of Canada*® 2015  
Applicable Section: Volume 1- Division B: Section 3.1.7.

### Identification:

1. All components of the spray foam insulation must be labeled with the manufacturer's name (Huntsman Building Solutions), address and telephone number; the product name (SEALECTION® 500 Spray-Applied Polyurethane Foam Insulation (Open-Cell)); use instructions; the density; the flame-spread and smoke-developed indices; the date of manufacturer; thermal resistance values; the manufacturer's instructions for application; the ICC-ES listing number (ESL-1373), and the ICC-ES Listing Mark, when applicable.

- The report holder's contact information is the following:

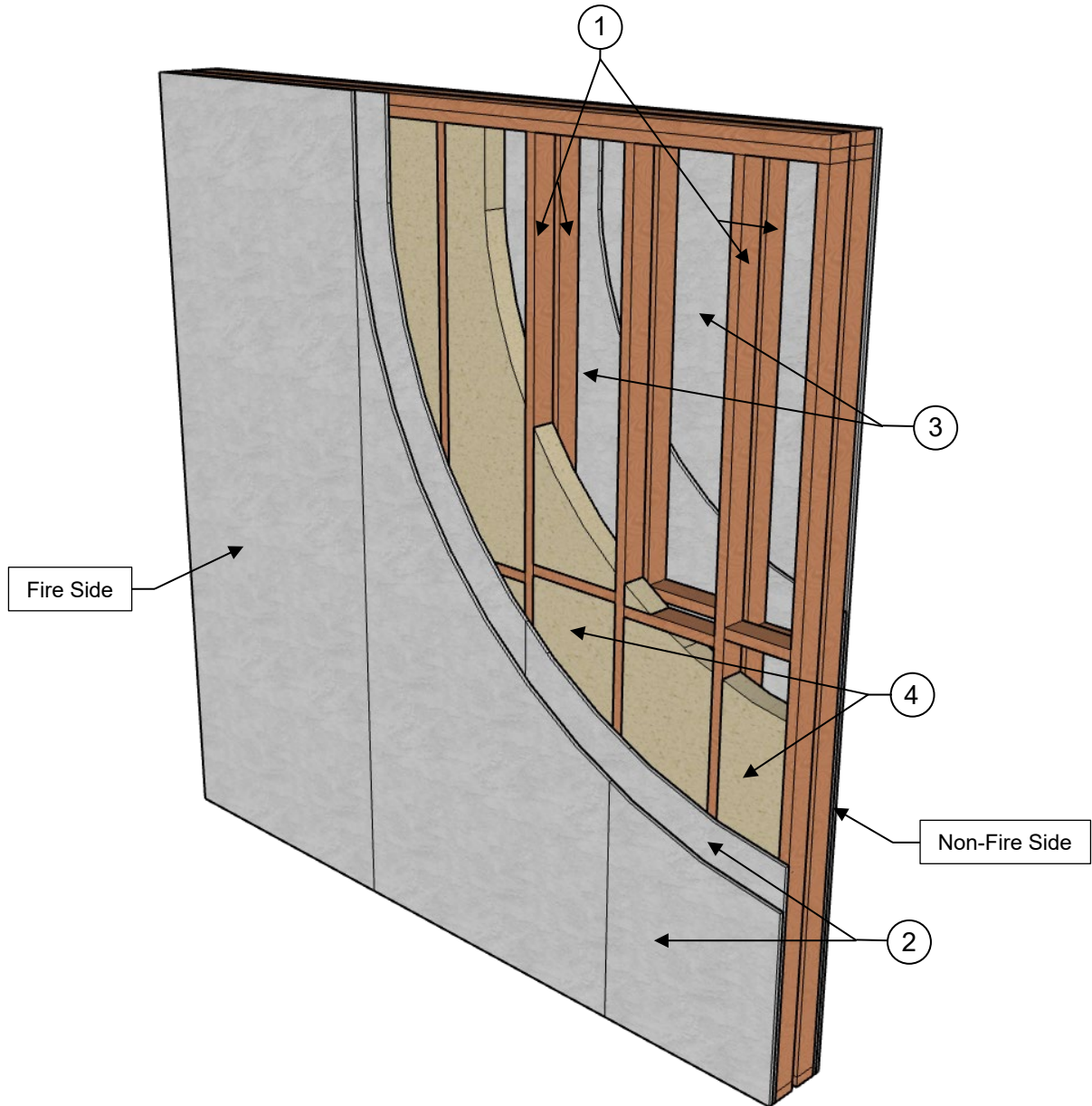
**HUNTSMAN BUILDING SOLUTIONS (USA) LLC**  
**3315 EAST DIVISION STREET**  
**ARLINGTON, TEXAS 76011**  
**(817) 640-4900**  
[www.huntsmanbuilds.com](http://www.huntsmanbuilds.com)

**Installation:** The product must be installed in accordance with the product application guide and the manufacturer's published technical data sheet, in compliance with the associated design listing and with all applicable codes.

**Conditions of Listing:**

- The listing report addresses only conformance with the standards and code sections noted above.
- Approval of the product's use is the sole responsibility of the local code official.
- The listing applies only to the materials tested and as submitted for review by ICC-ES.
- The design loads (ASD) used in testing for the load-bearing wood-framed walls are based on the allowable axial load of the wall framing studs and support bracing (if applicable) in accordance with the NDS (National Design Specification for Wood Construction), unless noted otherwise. Sheathing was not considered in the calculation of the design loads.
- For Design No. SPFI-1373-01, a load-bearing double wall assembly, the respective portion of the design load intended to be supported by each wall section, shall be applied individually to each wall to each wall section in accordance with Section 7.4.1.1(2) of ASTM E119 or Section 7.2 of CAN/ULC-S101.
- Greater stud sizes (depths) shall be permitted to be used in wood-stud systems in accordance with Section 12.5.2 of ASTM E2032 (Standard Guide for Extension of Data from Fire Resistance Tests Conducted in Accordance with ASTM E119) or ULC/ORD-C263E (Criteria for Use in Extension of Data from Fire Endurance Tests) in accordance with CAN/ULC-S101, and the principles pertaining to the fire resistance rating of wall assemblies.
- Huntsman Building Solutions' *SEALECTION*<sup>®</sup> 500 Spray-Applied Polyurethane Foam Insulation (Open-Cell) is produced in Arlington, Texas, under a quality control program with inspections by ICC-ES.

**Applicant:** HUNTSMAN BUILDING SOLUTIONS  
**Product:** SEALECTION® 500 SPRAY-APPLIED POLYURETHANE FOAM INSULATION (OPEN-CELL)  
**Standard:** ASTM E119 (UL 263) / CAN/ULC-S101  
**Assembly Rating:** 2-Hour  
**Load:** Load Bearing (100% Design Load) – See Conditions of Listing Notes #4 & #5



**COMPONENTS OF CONSTRUCTION:**

1. **Double Wall Framing (Wall Leaf)** – Each wall leaf consists of nominal 2-inch by 4-inch (50.8 mm x 101.6 mm) wood studs with a governing slenderness ratio ( $l_e/d$ ) of 38.5, spaced maximum 16 inches (406.4 mm) on center, with blocking at mid-height in the weak-axis direction, are secured to top and bottom plates with 16d – 3<sup>1</sup>/<sub>2</sub>-inch (88.9 mm) long x 0.131-inch (3.33 mm) diameter smooth shank framing nails. A double top plate is secured to the first top plate with 3-inch (76.2 mm) long x 0.131-inch (3.33 mm) diameter nails spaced 16 inches (406.4 mm) on center. Nominal 2-inch by 4-inch full-depth blocking is installed between each stud at mid-height of the wall assembly, staggered across the horizontal centerline between each wall leaf, and secured with 3-inch (76.2 mm) long x 0.131-inch (3.33 mm) diameter nails. The double wall assembly must include a 1-inch air gap between the wall leaves.

Note: See Conditions of Listing Items 4 and 6 of [ESL-1373](#).

2. **Sheathing (Fire Side)** – Two layers of minimum <sup>5</sup>/<sub>8</sub>-inch (15.9 mm) thick Type X gypsum wallboard are applied vertically to the exposed wall leaf framing, with the sheathing on the fire side. The base layer must be secured to the framing using #6 – 1<sup>5</sup>/<sub>8</sub>-inch (41.3 mm) long Type W screws spaced at 8 inches (203.2 mm) on center along the perimeter and in the field of the gypsum wallboard. The face layer, with vertical panel joints staggered from the base layer, must be secured to the framing using #8 - 2<sup>1</sup>/<sub>2</sub>-inch (63.5 mm) long Type W screws spaced at 8 inches (203.2 mm) on center along the perimeter and in the field, with the face layer screws staggered from the base layer screws. All face layer joints must be covered using paper joint tape and joint compound. All fastener heads must be covered using joint compound.
3. **Sheathing (Non-Fire Side)** – Two layers of minimum <sup>5</sup>/<sub>8</sub>-inch (15.9 mm) thick Type X gypsum wallboard are applied vertically to the unexposed wall leaf framing, with the sheathing on the non-fire side. The base layer must be secured to the framing using #6 – 1<sup>5</sup>/<sub>8</sub>-inch (41.3 mm) long Type W screws spaced at 8 inches (203.2 mm) on center along the perimeter and in the field of the gypsum board. The face layer, with vertical panel joints staggered from the base layer, must be secured to the framing using #8 - 2<sup>1</sup>/<sub>2</sub>-inch (63.5 mm) long Type W screws spaced at 8 inches (203.2 mm) on center along the perimeter and in the field, with the face layer screws staggered from the base layer screws. All face layer joints must be covered using paper joint tape and joint compound. All fastener heads must be covered using joint compound.
4. **Insulation (Fire Side)** – SELECTION® 500 Spray-Applied Polyurethane Foam Insulation (Open-Cell), with a reported density of 0.63 lbs./ft<sup>3</sup> (10.09 kg/m<sup>3</sup>), is applied to the backside of the base layer of Type X gypsum wallboard (fire side) at a nominal thickness of 3<sup>1</sup>/<sub>2</sub>-inch (88.9 mm) thick, fully filling the stud cavity.
5. **Insulation (Non-Fire Side)** – (Not Shown) Insulation is not required within the non-fire side wall leaf.