

Product Description:

An extruded polystyrene foam featuring smooth, high-density skins and a closed cellular structure. Designed with a positive slope for drainage, it has a higher compressive strength than other commonly used foam plastic insulations in order to provide additional membrane support for conventional low-slope roof applications. Designed for fully adhered roofing systems, Styrofoam™ Deckmate™ Plus FA Tapered boasts excellent insulating characteristics, low water absorption, and excellent compressive strength.

Size/Packaging:

- Available in 2' x 8' panels with standard slopes of 1/8" per foot or 1/4" per foot.

Features:

- Specially designed smooth, high-density skins
- Hydrochlorofluorocarbon (HCFC) free with zero ozone depletion potential
- Excellent insulating characteristics
- Hydrophobic nature of polystyrene provides high resistance to both water and water vapor
- Excellent freeze-thaw resistance
- Excellent compressive strength
- Long-term durability
- Reusable in many applications
- Covered component under the IB Total Systems Warranty

Application:

The XPS rigid insulation boards can be installed over approved substrates, directly on structural steel decks or beneath an approved cover board or thermal barrier. **Note:** Requires use of approved cover board or non-polystyrene insulation board as top layer; or use of approved separation sheet between the IB membrane and polystyrene insulation. Refer to IB Specifications and Construction Details for additional installation instructions.

Approvals:

- Meets or exceeds the requirements of ASTM C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- UL Standard 790 (ASTM E108) Roofing Systems Classification for various recover applications.
- FM Standard 4450

Limitations/Precautions:

When stored outdoors, keep insulation boards covered with white plastic film or light-colored tarps to protect from weather and weighted down to prevent boards from being blown around by the wind. Store above standing water. Do not leave Styrofoam™ Deckmate™ Plus FA Tapered exposed to direct sunlight for more than 90 days. Consult manufacturer if exposure is expected to be longer than 90 days. **Caution:** Use a temporary white covering over dark membranes or immediately cover with pavers or stone to prevent excessive heat exposure to the foam board.



STYROFOAM™ Brand Foam Insulation

| Typical Physical Properties* | | |
|---|--------------------|------------|
| Property | Test Method | Type IX |
| R-value ¹ | | |
| Resistance | ASTM C518 | 5.00 |
| @75°F | | |
| Compressive Strength, (psi, 10% deformation) ² | ASTM D1621 | 25 |
| Flexural Strength (psi) | ASTM D203 | 50 |
| Dimensional Stability ³ | ASTM D2126 | 2.0 |
| Water Vapor Permeance (max perm, 1") ⁴ | ASTM E96 | 1.1 |
| Water Absorption (max % vol) | ASTM C272 | 0.1 |
| Coefficient of Linear Thermal Expansion, in/in°F | ASTM D696 | 3.5 x 10-5 |
| Flame Spread ⁵ | ASTM E84 (10 min.) | 15 |
| Smoke Development ⁵ | ASTM E84 (10 min.) | 165 |
| Surface Burning Characteristics for both foam core and finished product | ASTM E84 (10 min.) | |
| Flame Spread ⁴ | | 25 |
| Smoke Developed ⁴ | | <450 |

*R means resistance to heat flow. The higher the R-value, the greater the insulating power.

²Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.

³These numerical flame spread, and smoke developed ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions

⁴Based on 1" thickness.

⁵Tested at 158°F/97% RH/7 days

*Physical properties shown are based on data provided by resin manufacturers, independent test agencies and insulation manufacturers.

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