

## Product Description:

A durable XPS foam insulation board made of a high-performance extruded polystyrene (XPS featuring a planed surface with smooth, high-density skins and a closed cellular structure. Designed for fully adhered roofing systems, Styrofoam™ Deckmate™ Plus FA boasts excellent insulating characteristics, low water absorption, and excellent compressive strength.

## Size/Packaging:

- Available in 2' x 8' panels
- Available thicknesses range from 1.5" to 4.0"

## 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.

## Multi-Layer Installation:

Improved insulation thermal performance and a reduction of thermal bridging can be obtained by the installation of two or more layers with all joints offset. Avoid continuous vertical joints on all multi-layer applications by staggering and offsetting the joints of each layer from those of preceding layers.

## 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 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.



Typical Physical Properties*		
Property	Test Method	Type IX
R-value <sup>1</sup> Resistance @75°F	ASTM C518	5.00
Compressive Strength, (psi, 10% deformation) <sup>2</sup>	ASTM D1621	25
Flexural Strength (psi)	ASTM D203	50
Dimensional Stability <sup>3</sup>	ASTM D2126	2.0
Water Vapor Permeance (max perm, 1") <sup>4</sup>	ASTM E96	1.5
Water Absorption (max % vol)	ASTM C272	0.1
Flame Spread <sup>5</sup>	ASTM E84 (10 min.)	15
Smoke Development <sup>5</sup>	ASTM E84 (10 min.)	165
Surface Burning Characteristics for both foam core and finished product Flame Spread <sup>4</sup> Smoke Developed <sup>4</sup>	ASTM E84 (10 min.)	25 <450

<sup>1</sup>R means resistance to heat flow. The higher the R-value, the greater the insulating power.  
<sup>2</sup>Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.  
<sup>3</sup>These numerical flame spread, and smoke developed ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions  
<sup>4</sup>Based on 1" thickness.  
<sup>5</sup>Tested at 158°F/97% RH/7 days  
\*Physical properties shown are based on data provided by resin manufacturers, independent test agencies and insulation manufacturers.

Product Information			
Thickness <sup>1</sup>	R-Value <sup>2</sup>	Size	Edge Style
1.5	7.5	2' x 8'	Square Edge
2.0	10.0	2' x 8'	Square Edge
2.5	12.5	2' x 8'	Square Edge
3.0	15.0	2' x 8'	Square Edge
4.0	20.0	2' x 8'	Square Edge

<sup>1</sup>Not all product sizes are available in all regions.  
<sup>2</sup>R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-values are expressed in ft<sup>2</sup> • h • °F/Btu. RSI values are expressed in m<sup>2</sup>°C/W. R-value determined by ASTM C518.

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