1. PRODUCT NAME
STYROFOAM™ Brand Extruded Polystyrene Foam (XPS) Square Edge Insulation

2. MANUFACTURER
The Dow Chemical Company
Dow Building Solutions
200 Larkin Center,
Midland, MI 48674
1-866-583-BLUE (2583)
Fax 1-989-832-1465
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3. PRODUCT DESCRIPTION
STYROFOAM™ Brand Square Edge Insulation is an extruded polystyrene foam insulation board that meets the needs of the commercial foundation and building floor slab market. This insulation can also be used for attics, foundations/slabs and crawl spaces in residential applications.

STYROFOAM™ Brand Square Edge Extruded Polystyrene Foam (XPS) Insulation has more than 60 years of proven performance in wet environments. The closed-cell structure of STYROFOAM™ Brand Square Edge Extruded Polystyrene Foam (XPS) Insulation resists water pickup, enabling it to retain a high R-value* over time – a necessary property in wet, below-grade commercial foundation applications.

Basic Use
STYROFOAM™ Brand Square Edge Extruded Polystyrene Foam (XPS) Insulation helps protect foundation damp-proofing and waterproofing, especially during backfilling. It also provides a secondary barrier against groundwater leakage. With STYROFOAM™ Brand Square Edge Insulation, freeze-thaw cycling of the foundation wall is minimized, reducing the potential for cracking. And a warmer foundation can reduce the potential for condensation.

STYROFOAM™ Brand Square Edge Insulation can be used against commercial interior walls and exterior foundation walls in above- and below-grade applications. STYROFOAM™ Brand Square Edge Insulation can be used under the slab or over the deck or subfloor. STYROFOAM™ Brand Square Edge Insulation is suitable for use in pervious, semi-pervious and practically impervious soils.

Sizes
Square Edge Width and length: 2’ x 8’ and 4’ x 8’
Thickness: .75”, 1”, 1.5”, 2”, 2.5”, 3”, 4”
Not all product sizes are available in all parts of the country. Contact your local Dow representative for details.

4. TECHNICAL DATA
Applicable Standards
STYROFOAM™ Brand Square Edge Insulation meets ASTM C578, Type IV – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. Applicable standards include:
• D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
• E96 – Standard Test Methods for Water Vapor Transmission of Materials
• D696 – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer
• C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
• D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
• C272 – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions

Code Compliances
STYROFOAM™ Brand Square Edge Insulation complies with the following codes:
• International Residential Code (IRC) and International Building Code (IBC)

TABLE 1: Physical Properties of STYROFOAM™ Brand Square Edge Insulation

<table>
<thead>
<tr>
<th>Property And Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance(^1) per inch, ASTM C518, ft^2•h•°F/Btu, R-value, min. @ 75°F mean temp.</td>
<td>5.0</td>
</tr>
<tr>
<td>@ 40°F mean temp.</td>
<td>5.4</td>
</tr>
<tr>
<td>@ 25°F mean temp.</td>
<td>5.6</td>
</tr>
<tr>
<td>Compressive Strength(^2), ASTM D1621, psi, min.</td>
<td>25</td>
</tr>
<tr>
<td>Water Absorption, ASTM C272, % by volume, max.</td>
<td>0.3</td>
</tr>
<tr>
<td>Water Vapor Permeance(^3), ASTM E96, perm, max.</td>
<td>1.5</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F</td>
<td>165</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion, ASTM D696, in/in•°F</td>
<td>3.5 × 10^-5</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min.</td>
<td>50</td>
</tr>
</tbody>
</table>

* R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-value determined by ASTM C518.

(1) R-values are consistent with criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460).
(2) Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.
(3) Based on 1” thickness.
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Technical Information: 1-866-583-BLUE (2583)
Sales Information: 1-800-232-2436

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CAUTION: This product is combustible and shall only be used as specified by the local building code with respect to flame spread classification and to the use of a suitable thermal barrier. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

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Printed in U.S.A.
Form No. 179-04454-0615 CDIP