1. PRODUCT NAME
STYROSPAN™ Extruded Polystyrene Foam Insulation

2. MANUFACTURER
Dow Chemical Canada ULC
Dow Building Solutions
450 – 1st St. SW, Suite 2100
Calgary, AB T2P 5H1
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)
www.dowbuildingsolutions.com

3. PRODUCT DESCRIPTION

Basic Use
STYROSPAN™ Extruded Polystyrene Foam Insulation is a versatile, utility-grade product manufactured for applications that require a high R-value (or RSI) and excellent moisture resistance without the need for high compressive strength.* STYROSPAN™ Insulation combines an R-value of 5.0 per inch (RSI of 0.88 per 25 mm) with high moisture resistance and a moderate compressive strength (Type 3) to serve a variety of insulation applications, such as cavity walls, frame walls, and masonry wall interiors and exteriors.

Sizes
Product thicknesses and R-values are shown in Table 1. Not all products are available in all areas. Consult your Dow representative about other sizes and lead-time requirements.

4. TECHNICAL DATA

Applicable Standards
STYROSPAN™ Insulation meets ASTM C578 – Standard Specification for Rigid Cellular Polystyrene Insulation. Applicable standards include:

- D2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics
- C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation

Code Compliances
STYROSPAN™ Insulation complies with the following codes:
- CAN/ULC S701 Type 3
- National Building Code of Canada
- CCMC – Evaluation Listing #11420-L

Contact your Dow sales representative or local authorities for state and local building code requirements and related acceptances.

PHYSICAL PROPERTIES
STYROSPAN™ Insulation exhibits the typical physical properties and characteristics indicated in Table 2 when tested as represented.

<table>
<thead>
<tr>
<th>Nominal Board Thickness(1), in.</th>
<th>R-value(2)</th>
<th>Board Size, FT</th>
<th>Edge Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>5.0</td>
<td>600 x 2400</td>
<td>Butt Edge/Shiplap</td>
</tr>
<tr>
<td>1.5</td>
<td>7.5</td>
<td>600 x 2400</td>
<td>Butt Edge/Shiplap</td>
</tr>
<tr>
<td>2.0</td>
<td>10.0</td>
<td>600 x 2400</td>
<td>Butt Edge/Shiplap</td>
</tr>
<tr>
<td>3.0</td>
<td>15.0</td>
<td>600 x 2400</td>
<td>Butt Edge</td>
</tr>
</tbody>
</table>

(1) Not all product sizes are available in all regions.
(2) R-values expressed in ft²•h•°F/Btu.

TABLE 2: Typical Physical properties STYROSPAN™ Extruded Polystyrene Foam Insulation

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance(1) per inch, ASTM C177 @ 75°F (24°C) mean temp., ft²•h•°F/Btu (m²•°C/W), R-value (RSI), min.</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td>Compressive Strength(2), ASTM D1621, psi, (kPa), min.</td>
<td>20 (140)</td>
</tr>
<tr>
<td>Water Absorption, ASTM D2842, % by volume, max.</td>
<td>0.7</td>
</tr>
<tr>
<td>Water Absorption, ASTM C272, % by volume, max</td>
<td>0.3</td>
</tr>
<tr>
<td>Water Vapour Permeance(3), ASTM E96, perm (ng/Pa•s•m²), max.</td>
<td>1.5 (86)</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F (°C)</td>
<td>165 (74)</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion, ASTM D696, in/in•°F (mm/m•°C)</td>
<td>3.5 x 10⁻⁶ (6.3 x 10⁻⁶)</td>
</tr>
</tbody>
</table>

(1) Values are consistent with the criteria of CAN/ULC S701.
(2) Vertical compressive strength is measured at 10 percent deformation or yield, whichever occurs first. Since STYROSPAN™ Extruded Polystyrene Foam Insulation is a visco-elastic material, adequate design safety factors should be used to prevent long-term creep. For static loads, 3:1 is suggested. For dynamic loads, 5:1 is suggested. Contact Dow for design recommendations.
(3) Based on 1” (25 mm) thickness.
ENVIRONMENTAL DATA
STYROSPAN® Extruded Polystyrene Foam Insulation is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential.

STYROSPAN® Extruded Polystyrene Foam Insulation is reusable in many applications.

Fire Information
STYROSPAN® Insulation is combustible; protect from high heat sources. Local building codes may require a protective or 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 1-519-339-3711.

5. INSTALLATION
STYROSPAN® Insulation boards are easy to handle and install. They can be cut with a utility knife or any sharp blade. Contact a local Dow representative or access the literature library at www.dowbuildingsolutions.com for more specific instructions.

6. AVAILABILITY
STYROSPAN® Insulation is distributed through an extensive network. For more information, call:
1-800-232-2436 (English)
1-800-565-1255 (French)

7. WARRANTY
Not applicable.

8. MAINTENANCE
Not applicable.

9. TECHNICAL SERVICES
Dow can provide technical information to help address questions when using STYROSPAN® Insulation. Technical personnel are available to assist with any insulation project. For technical assistance, call:
1-866-583-BLUE (2583) (English)
1-800-363-6210 (French)

10. FILING SYSTEMS
www.dowbuildingsolutions.com

In Canada
DOW CHEMICAL CANADA ULC
450 – 1st St. SW . Suite 2100
Calgary, AB T2P 5H1

Technical Information:
1-866-583-BLUE (2583)
1-800-363-6210 (French)

Sales Information:
1-800-232-2436
1-800-565-1255 (French)

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Dow Polyurethane Foam Insulation and Sealants

STYROFOAM™ Brand Spray Polyurethane Foam contains isocyanate, hydrofluorocarbon blowing agent and polyol. Read all the instructions and MSDS carefully before use. Wear protective clothing (including long sleeves), gloves, goggles and proper respiratory protection. Supplied air or an approved air purifying respirator equipped with an organic vapor sorbent and a P100 particulate filter is required to maintain exposure levels below ACB/G, OSHA, WEL or other applicable limits. Provide adequate ventilation. Contents under pressure. STYROFOAM™ Brand SPF should be installed by a trained SPF applicator.

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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