STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI Extruded Polystyrene Foam Insulation

1. PRODUCT NAME
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Extruded Polystyrene Foam Insulation

2. MANUFACTURER
The Dow Chemical Company
Dow Building Solutions
200 Larkin Center, 1605 Joseph Drive
Midland, MI 48674
1-866-583-BLUE (2583)
Fax 1-989-832-1465
www.insulateyourhome.com

3. PRODUCT DESCRIPTION
Basic Use
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Extruded Polystyrene Foam Insulation is a versatile, utility-grade product manufactured for applications that require a high R-value* and outstanding moisture resistance without the need for high compressive strength.

STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI Insulation is designed for use when a Type X, or lower-compressive strength, product is needed. If the superior properties of a Type IV 25 psi product are not required, STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI Insulation is a good choice for your application.

4. TECHNICAL DATA
Applicable Standards
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Insulation meets ASTM C578, Type X – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. Applicable standards include:


Typical Physical Properties
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Insulation exhibits the physical properties characteristics indicated in Table 2 when tested as represented.

Prolonged exposure to ultraviolet radiation may cause the surface of STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI Insulation to become faded and dusty. A light-colored, opaque protective covering should be used if excessive solar exposure is expected. The surface degradation will have no measurable effect on the insulating value of the plastic foam unless the deterioration is allowed to continue until actual foam thickness is lost. Since the dust would impair the performance of adhesives and finishes, the dusty surface should be brushed off before these products are applied.

Environmental Data
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Insulation is manufactured with a zero ozonedepleting (ODP), no-VOC (volatile organic compound) foaming agent technology. STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI Insulation is reusable in many applications.

Table 1: Sizes, R-values and edge treatments for STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Extruded Polystyrene Foam Insulation

<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>2 x 8, 4 x 8, 4 x 9</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.5</td>
<td>7.5</td>
<td>2 x 8, 4 x 8, 4 x 9</td>
<td>Square Edge</td>
</tr>
<tr>
<td>2.0</td>
<td>10.0</td>
<td>2 x 8, 4 x 8, 4 x 9</td>
<td>Tongue and Groove, Scoreboard</td>
</tr>
<tr>
<td>3.0</td>
<td>15.0</td>
<td>2 x 8, 4 x 8, 4 x 9</td>
<td>Square Edge</td>
</tr>
</tbody>
</table>

(1) Not all product sizes are available in all regions. Additional product sizes are available by custom order. Consult your Dow sales representative about other sizes and lead-time requirements.

(2) Aged R-value at 1” cured foam @ 75°F mean temperature. R-value expressed in ft²•h•°F/Btu. R-value determined by ASTM C518 using the aging process in ASTM C1289 (90 days @ 140°F).
Fire Protection
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI 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.

5. INSTALLATION
Boards of STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Insulation are easy to handle, cut and install. Contact a local Dow representative or access the literature library at www.dowstyrofoam.com/architect or www.insulateyourhome.com for more specific instructions.

6. AVAILABILITY
STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Insulation is manufactured in several locations across North America and is distributed through an extensive network. For more information, call 1-800-232-2436.

7. WARRANTY
Not applicable.

8. MAINTENANCE
Not applicable.

9. TECHNICAL SERVICES
Dow can provide technical information to help address questions when using STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI insulation. Technical personnel are available to assist with any insulation project. For technical assistance, call 1-866-583-BLUE (2583).

10. FILING SYSTEMS
• www.dowstyrofoam.com/architect
• www.insulateyourhome.com
• www.sweets.com

### TABLE 2: Typical Physical properties (U.S.) of STYROFOAM™ Brand UTILITYFIT™ XPS 15 PSI™ Extruded Polystyrene Foam Insulation

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance per inch, ASTM C518 @ 75°F mean temp., f°/°F/Blu, R-value(1), min.</td>
<td>5.0</td>
</tr>
<tr>
<td>Compressive Strength(2) ASTM D1621, psi, min.</td>
<td>15</td>
</tr>
<tr>
<td>Water Absorption, ASTM C272, % by volume, max.</td>
<td>0.3</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F</td>
<td>165</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion, ASTM D696, in/°F</td>
<td>3.5 x 10^-6</td>
</tr>
</tbody>
</table>

(1) Values are consistent with the criteria of ASTM C578 and the FTC R-value rule (16 CFR Part 460); R means resistance to heat flow.

(2) Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first. Since STYROFOAM™ Brand Extruded Polystyrene Foam Insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep and fatigue deformation. For static loads, 3:1 is suggested. For dynamic loads, 5:1 is suggested. Contact Dow for design recommendations.