**STYROFOAM™ Brand CAVITYMATE™ Ultra Extruded Polystyrene Foam Insulation** uses patented carbon black materials in the foam for greater thermal performance and features the highest R-value of any extruded polystyrene foam insulation products. Available in 15 3/4" and 16" widths making it easy to fit between brick ties in cavity wall applications.

### STANDARD SIZE
15 3/4" x 96", 16" x 96"

*15 3/4" board width is the standard size used in the Ultra Wall Air Barrier System.*

### PROPERTIES

<table>
<thead>
<tr>
<th>Nominal Board Thickness, in</th>
<th>R-Value(1)</th>
<th>Ultra Air Barrier Wall System Board Size, in</th>
<th>Board Size, in</th>
<th>Edge Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>10.0</td>
<td>15 3/4&quot; x 96</td>
<td>16&quot; x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>2.125</td>
<td>12.0</td>
<td>15 3/4&quot; x 96</td>
<td>16&quot; x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>2.5</td>
<td>14.0</td>
<td>15 3/4&quot; x 96</td>
<td>16&quot; x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>3.0</td>
<td>16.8</td>
<td>15 3/4&quot; x 96</td>
<td>16&quot; x 96</td>
<td>Square Edge</td>
</tr>
</tbody>
</table>

- **Thermal Resistance(1)**, ASTM C518, ft²•h•°F/Btu, R-value, min.
  - @ 75°F (24°C) mean temp. ........................................ 10.0 ....... 12.0 .......... 14.0 .......... 16.8
  - @ 40°F (4°C) mean temp. ................................. 10.8 .......... 13.0 .......... 15.0 .......... 18.0
  - @ 25°F (-4°C) mean temp. ........................................ 11.2 .......... 13.4 .......... 15.8 .......... 18.9

- **Compressive Strength(2)**, ASTM D1621, psi, min. .................................................. 25.0

- **Water Absorption**, ASTM C272, % by volume, max. ................................................... 0.3

- **Water Vapor Permeance(3)**, ASTM E96, perm, max  
  - 1.0" ........ 1.75" ........ 2.125" ....... 2.5" ........ 3.0" 
  - 1.5 ..... 1.1 ..... 0.9 ..... 0.8 ..... 0.8

- **Maximum Use Temperature, °F** .......................................................... 165

- **Coefficient of Linear Thermal Expansion**, ASTM D696, in/in•°F ........................................ 3.5x10⁻⁵

- **Flexural Strength, ASTM C203, psi, min.** .................................................. 50.0

- **Dimensional Stability, ASTM D2126, % linear change, max.** ................................ 2.0

- **Surface Burning Characteristics, ASTM E84** ......................................................... Flame Spread(3) 0, Smoke Developed 155(3)

- **Complies with ASTM C578, Type** ................................................................. IV

1. Values are consistent with the criteria of ASTM C578 and the FTC R-value rule. R means resistance to heat flow. The higher the R-value, the greater the insulating power.
2. Vertical compressive strength is measured at 10% deformation (5% for STYROFOAM™ Brand PLAZAMATE™ Insulation and for STYROFOAM™ Brand HIGHLOAD 40, 60, and 100 Insulation products) or at yield, whichever occurs first. Since STYROFOAM™ Brand Extruded Polystyrene Foam and Dow polyisocyanurate insulation products are visco-elastic materials, 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.
3. 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.

**Not all sizes are available in all areas. Consult your Dow representative about other sizes and lead-time requirements.**

**CAUTION:** This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. 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.

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.

**THE DOW CHEMICAL COMPANY • Dow Building Solutions • 1-866-583-BLUE (2583)**

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