1. PRODUCT NAME
STYROFOAM™ CAVITYMATE™ Plus Extruded Polystyrene Foam Insulation

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

3. PRODUCT DESCRIPTION
Basic Use
STYROFOAM™ CAVITYMATE™ Plus Extruded Polystyrene Foam Insulation is a moisture-resistant, durable and lightweight foam board designed specifically for use in wet cavity wall environments. Sized to fit snugly between wall ties, STYROFOAM™ CAVITYMATE™ Plus Insulation saves time and money on the job site. Its closed-cell structure provides exceptional long-term thermal performance and moisture control.

4. TECHNICAL DATA
Applicable Standards
STYROFOAM™ CAVITYMATE™ Plus Insulation meets ASTM C578 – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation, which includes:
- 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
- D2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics

Physical Properties
STYROFOAM™ CAVITYMATE™ Plus Insulation exhibits the properties and characteristics indicated in Tables 3 and 4 when tested as represented.

Environmental Data
STYROFOAM™ CAVITYMATE™ Plus insulation is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential. STYROFOAM™ CAVITYMATE™ Plus insulation is reusable in many applications.

Fire Protection
STYROFOAM™ CAVITYMATE™ Plus insulation 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.

Code Compliances
STYROFOAM™ CAVITYMATE™ Plus insulation complies with the following codes:
- International Residential Code (IRC) and International Building Code (IBC); see ICC-ES ESR 2142, BOCA-ES RR 21-02
- Underwriters Laboratories, Inc. (UL) Classified, see Classification Certificate D369

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

5. INSTALLATION
Boards of STYROFOAM™ CAVITYMATE™ Plus insulation are easy to handle, cut and install. Contact a local Dow representative or access the literature library at www.dowbuildingsolutions.com for more specific instructions.

TABLE 1: U.S. Sizes, R-Values and Edge Treatments for STYROFOAM™ CAVITYMATE™ Plus 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>16 x 96</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.5</td>
<td>7.5</td>
<td>16 x 96</td>
<td>Butt Edge</td>
</tr>
<tr>
<td>2.0</td>
<td>10.0</td>
<td>16 x 96</td>
<td>Butt Edge</td>
</tr>
<tr>
<td>3.0</td>
<td>15.0</td>
<td>16 x 96</td>
<td>Butt Edge</td>
</tr>
</tbody>
</table>

(1) Not all product sizes are available in all regions.
(2) R means resistance to heat flow. The higher the R-value, the greater the insulating power. R-values are expressed in ft²•h•°F/Btu. R-value determined by ASTM C518.
6. AVAILABILITY
STYROFOAM™ CAVITYMATE™ Plus 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
In the United States, a 50-year thermal limited warranty is available on STYROFOAM™ Insulation products 1.5 inches and greater. For thickness less than 1.5 inches, other warranties may apply. Warranties are available as described at http://building.dow.com/na/en/tools/warranty.htm

8. MAINTENANCE
Not applicable.

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

10. FILING SYSTEMS
www.dowbuildingsolutions.com
www.sweets.com

### TABLE 2: Physical Properties of STYROFOAM™ CAVITYMATE™ Plus 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 @ 75°F mean temp., ft²•h•°F/Btu, R-value, min.</td>
<td>5.0</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. ASTM D2842, % by volume, max.</td>
<td>0.3 &lt;0.7</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 x 10⁻⁵</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min.</td>
<td>50</td>
</tr>
</tbody>
</table>

(1) Values are consistent with the criteria of ASTM C578 and the requirements of the FTC R-value rule (16 CFR Part 460). R means resistance to heat flow. The higher the R-value, the greater the insulating power.
(2) Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first. Since STYROFOAM™ extruded polystyrene insulations are visco-elastic materials, adequate design safety factors should be used to prevent long-term creep and fatigue deformation.
(3) Based on 1” thickness.