1. PRODUCT NAME
THERMAX™ Sheathing

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
THERMAX™ Sheathing is a non-structural, rigid board insulation consisting of a glass-fiber-infused polyisocyanurate foam core laminated between 1.0 mil smooth, reflective aluminum facers on both sides. The glass-fiber reinforcement contributes to improved fire performance and dimensional stability. In the USA THERMAX™ Sheathing can be installed exposed to the interior without a thermal barrier. In Canadian construction THERMAX™ exposed to the interior must be covered with a thermal barrier.

SUSTAINABILITY DATA
THERMAX™ Sheathing is manufactured from 100% renewable power and has a zero ozone depleting potential. The use of THERMAX™ Sheathing helps reduce the carbon footprint of commercial buildings and can contribute to LEED Credits.

4. TECHNICAL DATA
APPLICABLE STANDARDS
THERMAX™ Sheathing meets ASTM C1289 – Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board, Type I, Class 2 and CAN/ULC S704-11. Applicable standards include:
- C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- C209 – Standard Test Methods for Cellulosic Fiber Insulating Board
- D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging

FIRE INFORMATION
THERMAX™ Sheathing products should be used only in strict accordance with product application instructions. THERMAX™ products are combustible and must be installed in accordance with local building codes. For more information, consult (M)SDS and/or call Dow at 1-866-583-BLUE (2583). In an emergency, call 1-989-636-4400.

TABLE 1: SIZES, R-VALUES AND EDGE TREATMENTS FOR THERMAX™ SHEATHING

<table>
<thead>
<tr>
<th>Nominal Thickness</th>
<th>Thermal Properties</th>
<th>*Board Size Availability</th>
<th>Edge Treatment Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>US (in) Canada (mm)</td>
<td>R-Value RSI</td>
<td>US (ft) Canada (mm)</td>
<td></td>
</tr>
<tr>
<td>0.50</td>
<td>* 3.3 0.58</td>
<td>4 x 8, 4 x 12 1220 x 2440</td>
<td>Square Edge</td>
</tr>
<tr>
<td>0.75</td>
<td>* 5.0 0.88</td>
<td>4 x 8, 4 x 12 1220 x 2440</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1</td>
<td>* 6.5 1.14</td>
<td>4 x 8, 4 x 12 1220 x 2440</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.5</td>
<td>* 9.8 1.73</td>
<td>4 x 8, 4 x 12 1223 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>1.55</td>
<td>39 10.1 1.78</td>
<td>4 x 8, 4 x 12 1224 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>2</td>
<td>51 13.0 2.29</td>
<td>4 x 8, 4 x 12 1225 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>2.5</td>
<td>64 15.8 2.78</td>
<td>4 x 8, 4 x 12 1226 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>3</td>
<td>76 18.6 3.28</td>
<td>4 x 8, 4 x 12 1227 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>3.5</td>
<td>89 21.3 3.75</td>
<td>4 x 8, 4 x 12 1228 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>4</td>
<td>102 24.0 4.22</td>
<td>4 x 8, 4 x 12 1229 x 2440</td>
<td>Square Edge, Shiplap</td>
</tr>
</tbody>
</table>
CODE COMPLIANCES
THERMAX™ Sheathing complies with the following codes:
• ASTM E2178 Standard Test Method for Air Permeance of Building Materials - leakage rates less than 0.001 L/s/m² at a test pressure of 75 Pa.
• ASTM E283 Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under specified Pressure differences across the specimen. Results were <0.02 L/s/m².
• ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies - no leakage
• ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference - no leakage
• 2009 International Residential Code (IRC) Section 316

The following designs are 1, 2, 3 or 4 hour wall rated assemblies as listed in the UL Fire Resistance Directory: U026, U326, U330, U354, U355, U424, U425, U460, U902, U904, U905, U906, U907, V454, V482, V499

TABLE 2: TYPICAL PHYSICAL PROPERTIES OF THERMAX™ SHEATHING

<table>
<thead>
<tr>
<th>Properties</th>
<th>US (per ASTM C1289)</th>
<th>Canadian (per CAN/ULC S704)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Test Method</td>
<td>Values</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>ASTM D1621</td>
<td>25 psi min</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>ASTM C203</td>
<td>40 psi min</td>
</tr>
<tr>
<td>Thermal resistance</td>
<td>ASTM C518</td>
<td>(see table)</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ASTM D1623</td>
<td>24 psi min</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>ASTM D2126</td>
<td>0.2% max</td>
</tr>
<tr>
<td>Water absorption</td>
<td>ASTM C209</td>
<td>0.1 max</td>
</tr>
<tr>
<td>Water vapor transmission</td>
<td>ASTM E96</td>
<td>&lt;0.3 perm</td>
</tr>
</tbody>
</table>

In the USA a 15 year THERMAL warranty is available. Visit www.dow.com/building for warranty documentation.

6. AVAILABILITY
Manufactured in United States. Contact your local sales representative for availability or call 1800-232-2436.

7. WARRANTY
In Canada

In Canada
Dow Chemical Canada Inc.
Dow Building Solutions
2400, 215 - 2 Street S.W.,
Calgary, Alberta T2P 1M4

Technical Information
1-866-583-BLUE (2583)
dowbuildingsolutions.com

Sales Information
1-800-232-2436

dowbuildingsolutions.com

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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 1-888-638-4400.

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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