THERMAX™ Sheathing

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)</td>
<td>Canada (mm)</td>
<td>R-Value</td>
<td>Rsi</td>
</tr>
<tr>
<td>0.50</td>
<td>*</td>
<td>3.3</td>
<td>0.58</td>
</tr>
<tr>
<td>0.75</td>
<td>*</td>
<td>5.0</td>
<td>0.88</td>
</tr>
<tr>
<td>1</td>
<td>*</td>
<td>6.5</td>
<td>1.14</td>
</tr>
<tr>
<td>1.5</td>
<td>*</td>
<td>9.8</td>
<td>1.73</td>
</tr>
<tr>
<td>1.55</td>
<td>39</td>
<td>10.1</td>
<td>1.78</td>
</tr>
<tr>
<td>2</td>
<td>51</td>
<td>13.0</td>
<td>2.29</td>
</tr>
<tr>
<td>2.5</td>
<td>64</td>
<td>15.8</td>
<td>2.78</td>
</tr>
<tr>
<td>3</td>
<td>76</td>
<td>18.6</td>
<td>3.28</td>
</tr>
<tr>
<td>3.5</td>
<td>89</td>
<td>21.3</td>
<td>3.75</td>
</tr>
<tr>
<td>4</td>
<td>102</td>
<td>24.0</td>
<td>4.22</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 E3357 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

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 Values</td>
<td></td>
</tr>
<tr>
<td>Compressive strength</td>
<td>ASTM D1621 25 psi min</td>
<td>ASTM D1621 170 kPa</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>ASTM C203 40 psi min</td>
<td>ASTM C203 275 kPa min</td>
</tr>
<tr>
<td>Thermal resistance</td>
<td>ASTM C518 (see table)</td>
<td>ASTM C518 (see table)</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>ASTM D1623 24 psi min</td>
<td>ASTM D1623 170 kPa min</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>ASTM D2126 0.2% max</td>
<td>ASTM D2126 0.2% max</td>
</tr>
<tr>
<td>Water absorption</td>
<td>ASTM C209 0.1 max</td>
<td>ASTM D2842 3.5 max</td>
</tr>
<tr>
<td>Water vapor transmission</td>
<td>ASTM E96 &lt; 0.3 perm</td>
<td>ASTM E96 &lt; 15 ng/Pa-s-m²</td>
</tr>
</tbody>
</table>

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

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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 1-866-583-4400.

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.

6. AVAILABILITY

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

7. WARRANTY

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

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


FMVSS No. 302 – Flammability of Interior Materials – Passenger Cars, Multipurpose Passenger Vehicles, Trucks and Buses (Docket No. 3-3; Notice 4)

Miami-Dade NOA 08-0320.01 Interior Insulation on CMU Block

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