**DuPont™ Thermax™ Sheathing**

Nonstructural, Glass-Fiber-Infused Rigid Polyiso Insulation

**FEATURES/BENEFITS**

**Description**

DuPont™ Thermax™ Sheathing is a non-structural, rigid board insulation consisting of a glass-fiber-infused polyisocyanurate foam core laminated between 1 mil smooth, reflective aluminum facers on both sides. The glass-fiber reinforcement contributes to improved fire performance and dimensional stability.

Thermax™ Sheathing also offers high, long-term thermal resistance, with facers that help prevent water and water vapor intrusion into the insulation foam allowing it to stabilize at a higher R-value. In the USA, Thermax™ Sheathing can be installed as exterior continuous insulation and also installed exposed to the interior without a thermal barrier. Used in conjunction with the appropriate joint closure system for the application, Thermax™ Sheathing – with its low perm rating – can help to reduce moisture condensation within and behind the insulation.

**Ease of Installation**

Thermax™ Sheathing:
- Does not separate sheathing membrane or housewrap
- Can be installed on walls and ceilings while exposed to the interior without any thermal barrier
- Contains UV-stable technology – can remain uncovered up to six months
- Reduces the potential for condensation within the wall assembly
- Is lightweight – easy to cut, handle and install

**Available Sizes**

Sizes, R-values and edge treatment options for Thermax™ Sheathing can be found in Table 1. Contact your local sales representative for additional sizes.

**Sustainable Solutions**

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

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*Thermax™ Sheathing is a former product of The Dow Chemical Company.*
TABLE 2: Physical Properties of Thermax™ Sheathing

<table>
<thead>
<tr>
<th>Properties</th>
<th>US (per ASTM C1289)</th>
<th>Canadian (per CAN/ULC S704)</th>
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</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 (see table)</td>
<td></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>01 max</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96</td>
<td>&lt; 0.01 perm</td>
</tr>
</tbody>
</table>

Surface Burning Characteristics: ASTM E84 for both foam core and finished product
Flame Spread: Class A
Smoke Developed: 25<br>450<br>25<br>130

1 Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.
2 Calculated flammability values for this or any other material are not intended to represent hazards that may be present under actual fire conditions.

TESTING

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
- D2842 – Standard Test Method for Water Absorption of Rigid Cellular Plastics

Notice
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
- NBCC 9.25.2.2
- ICC-ES ESR-1659
- CAN/ULC S704-03/11
- CCMC listing 08433-L
- FM 4880 – Wall-Ceiling Construction Metal-Faced – Class 1 Fire Rated to Max. 30' Exposure High, 4.25' Thick, 4' Wide, When Installed as Described in the Current Edition of FMRC Approval Guide. Contact Dupont Technical Support for most current FM 4880 attachment requirements.
• FM 4450 Approval Standard for Class 1 Insulated – Steel Deck Roofs
• ThermaMax™ products are covered under Underwriters Laboratories Inc. (UL) File R5622
• UL 1256 – Fire Test of Roof Deck Constructions, Roof Deck Construction No. 120 and No. 123
• Class A UL 723 (ASTM E84) Surface Burning Characteristics of Building Materials
• 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
• NFPA 285 compliant when installed as part of exterior wall assemblies in ICC-ES ESR-1659 or valid engineering judgement reports
• FMVSS No. 302 – Flammability of Interior Materials – Passenger Cars, Multipurpose Passenger Vehicles, Trucks and Buses (Docket No. 3-3; Notice 4)
• Miami-Dade NOA 02-0703.02 Interior Insulation on CMU Block
• Miami-Dade NOA 02-0703.03 Insulated Wall
• Miami Dade NOA 02-0703.05 Insulated Roof Assembly 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
Contact your DuPont sales representative or local authorities for state and local building code requirements and related acceptances.

**Warranty**
In the USA a 15 year thermal warranty is available. Visit building.dupont.com/warranties or contact your DuPont representative for details.

**HANDLING**

**WARNING: For Professional Use Only** – Read and follow the entire Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of ThermaMax™ Brand products. Follow all applicable federal, state, local and employer regulations.

**Precautionary Statements**
- In Canadian construction, DuPont™ ThermaMax™ Sheathing exposed to the interior must be covered with a thermal barrier.
- ThermaMax™ Brand products should be used only in strict accordance with product application instructions.
- ThermaMax™ Brand products, when used in a building containing combustible materials, may contribute to the spread of fire. For more information, consult MSDS and/or call DuPont at 1-866-583-2583.

**Disposal**
Dispose of any residual ThermaMax™ Brand product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.
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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 call the DuPont Contact Center at 866-583-2583 or contact your local building inspector. For emergencies contact Chemtrec 800-424-9300, CCN (Contract Number) 7442.

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 DuPont can give assurance that mold will not develop in any specific system.

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