Thermax™ Light Duty Insulation

Durable, Glass-Fiber-Reinforced Insulation with Thermoset-Coated Aluminum Face

**Features/Benefits**

**Description**
Thermax™ Light Duty Insulation is designed as an insulation and interior finish system for walls and ceilings in metal, wood post frame and concrete or masonry buildings, as governed by building codes.

Thermax™ Light Duty consists of a glass-fiber-reinforced polyisocyanurate foam core faced with nominal 1.25 mil embossed white thermoset-coated aluminum on one side and 1.25 mil embossed aluminum on the other. The tough 1.25 mil white embossed aluminum surface makes it a durable insulation/finish choice for use in moderate-impact areas, and it can be pressure-washed up to 2,000 psi with a 15-degree or greater spray tip (at 3’ minimum distance).

Thermax™ Light Duty 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*. Used in conjunction with the appropriate joint closure system for the application, Thermax™ Light Duty – with its low perm rating – can help to reduce moisture condensation within and behind the insulation.

**Ease of Installation**
Thermax™ Light Duty:
- Installs quickly to walls and ceilings – inside and outside of purlins, trusses or bar joints
- Eliminates the extra step of installing a membrane or building wrap
- Can be installed exposed to the interior without a 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

**Sustainable Solutions**
Thermax™ Light Duty is manufactured with a zero ozone depleting potential. The use of Thermax™ Light Duty helps reduce the carbon footprint of commercial buildings.

**Available Sizes**
Available sizes, R-values and edge treatments for Thermax™ Light Duty can be found in Table 1.

**TABLE 1: Sizes**, R-Values And Edge Treatments For THERMAX™ Light Duty Insulation

<table>
<thead>
<tr>
<th>Nominal Board Thickness (in.)</th>
<th>R-Value</th>
<th>Board Size (ft.)</th>
<th>Edge Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3.3</td>
<td>4 x 8/4 x 12</td>
<td>Square Edge</td>
</tr>
<tr>
<td>7.5</td>
<td>5.0</td>
<td>4 x 8/4 x 12</td>
<td>Square Edge</td>
</tr>
<tr>
<td>10</td>
<td>6.5</td>
<td>4 x 8/4 x 12</td>
<td>Square Edge</td>
</tr>
<tr>
<td>15</td>
<td>9.8</td>
<td>4 x 8/4 x 12</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>2.0</td>
<td>13.0</td>
<td>4 x 8/4 x 12</td>
<td>Square Edge, Shiplap</td>
</tr>
</tbody>
</table>

1 Contact your DuPont seller for information at different R-values and other sizes and lead time requirements. Not all product sizes are available in all regions.
2 R-value means resistance to heat flow. The higher the R-value the greater the insulating power. Stabilized R-value at 75°F mean temperature determined in accordance with ASTM C518, R-values expressed in R-ft²°F/Btu.

* Thermax™ Light Duty Insulation is a former product of The Dow Chemical Company.
PROPERTIES

Thermax™ Light Duty Insulation exhibits physical properties as indicated in Table 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

TABLE 2: Physical Properties of Thermax™ Light Duty Insulation

<table>
<thead>
<tr>
<th>Property and Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength, ASTM D1621, psi, min</td>
<td>25</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min</td>
<td>55</td>
</tr>
<tr>
<td>Water Absorption, ASTM C209, % by volume, max</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Water Vapor Permeance, ASTM E96, perm, max</td>
<td>&lt;0.03</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F</td>
<td>250</td>
</tr>
<tr>
<td>Light Reflectance, Visual Light Spectrophotometer, %</td>
<td>65</td>
</tr>
</tbody>
</table>

1 Vertical compressive strength is measured at 10 percent deformation or at yield, whichever occurs first.

TESTING

Applicable Standards
Thermax™ Light Duty meets ASTM C1289 – Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board, Type I, Class 2. 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
• D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
• D2126 – Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
• E96 – Standard Test Method for Water Vapor Transmission of Materials
• D1623 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics

Notice
Thermax™ Light Duty complies with the following codes:

• 2009 International Residential Code (IRC) Section 316
• 2009 International Building Code (IBC) Section 2603
• ICC-ES ESR-1659
• 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
• Thermax™ Brand 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
• 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
• FMVSS No. 302 – Flammability of Interior Materials – Passenger Cars, Multipurpose Passenger Vehicles, Trucks and Buses (Docket No. 3-3; Notice 4)

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

**Warranty**
Fifteen-year limited thermal warranty is available. Visit building.dupont.com/warranties or contact your DuPont representative for details.

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**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 Thermax™ Brand products. Follow all applicable federal, state, local and employer regulations.

**Precautionary Statements**
• Butt joints must be installed over structural members. The surface of the insulation at all joints must be continuously sealed with tape or with one of DuPont's joint closure systems.
• Maximum product length is 30 ft. (9.1 m) with a maximum thickness of 3 inches (76.2 mm).
• Thermax™ Brand products should be used only in strict accordance with product application instructions.
• Thermax™ 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 Thermax™ 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, consult (Material) Safety Data Sheet (MSDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3771 in Canada.

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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