DuPont™ Thermax™ White Finish (WF) Insulation

White-Embossed, Glass-Fiber-Reinforced Polyiso Foam Insulation

FEATURES/BENEFITS

Description
DuPont™ Thermax™ White Finish (WF) Insulation* is a polyisocyanurate insulation designed as an insulation and interior finish system for interior masonry or concrete walls, plus walls and ceilings in metal, wood post frame, and concrete or masonry buildings, as governed by building codes.

The glass-fiber-reinforced polyisocyanurate foam core of Thermax™ White Finish is faced with nominal 1.25 mil embossed white acrylic coated aluminum on one side and 0.9 mil smooth aluminum on the other. The white embossed surface of Thermax™ White Finish is aesthetically pleasing and easy to clean, able to be pressure-washed up to 1,000 psi with a 15-degree or greater spray tip (at minimum 3’ distance). Thermax™ White Finish meets the USDA requirements for “Incidental Food Contact Materials” when used as surfaces not in direct contact with food, such as floors, walls, ceilings etc.)

Thermax™ Brand insulations are created through an exclusive free-rise manufacturing process, which produces a closed-cell foam that is specially formulated for improved fire performance. The combination of the closed-cell foam core and sturdy facers produces boards that deliver high R-value** (see Table 2) plus excellent dimensional stability and moisture resistance. Used in conjunction with the appropriate joint closure system for the application, Thermax™ White Finish with its low perm rating helps to prevent moisture condensation within and behind the insulation.

Ease of Installation
Thermax™ White Finish is:
- Lightweight and easy to handle – can be sawed or cut with a knife, small hand saw or circular saw
- Composed of white acrylic facers that resist damage, are pressure-washable, and reduce light energy cost and air infiltration
- Able to take the place of a membrane or building wrap, saving installation costs
- Able to be installed exposed to the interior without a thermal barrier
- Able to be adhered directly to masonry walls with a construction grade adhesive.
- UV-stable– can remain uncovered up to six months

Available Sizes
Available sizes for Thermax™ White Finish include:
- Width and length: 4’ x 8’, 4’ x 9’ or 4’ x 10’
- Edge treatment: Square edge, shiplap

Product thicknesses and R-values are shown in Table 1. Not all products are available in all parts of the country. Additional product sizes are available by custom order. Contact your DuPont representative about other sizes and lead-time requirements.

Table 1: Sizes, R-Values And Edge Treatments For Thermax™ White Finish Insulation

<table>
<thead>
<tr>
<th>Nominal Foam Thickness, in.</th>
<th>R-Value</th>
<th>Board Size (ft.)</th>
<th>Edge Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50</td>
<td>3.3</td>
<td>4 x 8</td>
<td>Square Edge</td>
</tr>
<tr>
<td>0.75</td>
<td>5.0</td>
<td>4 x 8</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.0</td>
<td>6.5</td>
<td>4 x 8</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.25</td>
<td>8.0</td>
<td>4 x 8</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.5</td>
<td>9.8</td>
<td>4 x 8</td>
<td>Square Edge</td>
</tr>
<tr>
<td>1.55</td>
<td>10.0</td>
<td>4 x 9</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>1.75</td>
<td>11.4</td>
<td>4 x 8</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>2.0</td>
<td>13.0</td>
<td>4 x 8</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>2.5</td>
<td>15.0</td>
<td>4 x 8</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>3.0</td>
<td>18.0</td>
<td>4 x 8</td>
<td>Square Edge, Shiplap</td>
</tr>
<tr>
<td>3.5</td>
<td>21.0</td>
<td>4 x 8</td>
<td>Square Edge, Shiplap</td>
</tr>
</tbody>
</table>

* Thermax™ White Finish is a former product of The Dow Chemical Company.
** R means resistance to heat flow: The higher the R-value, the greater the insulating power.

Notes:
- Stabilized R-values of core foam @ 75°F mean temperature determined in accordance with ASTM C518.
- R-values expressed in ft²•h•°F/Btu.
- Thermax™ Brand insulation has a higher R-Value at lower temperatures. At 40°F and 1” board thickness, R-Value is 6.6, and for 2” board thickness, R-Value is 13.2.
**Sustainable Solutions**

Thermax™ White Finish is manufactured with a zero ozone depleting potential. The use of Thermax™ White Finish helps reduce the carbon footprint of commercial buildings.

**PROPERTIES**

Thermax™ White Finish exhibits physical properties as indicated in Tables 1 and 2 when tested as represented. For chemical resistance properties of Thermax™ White Finish, see Table 3. 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™ White Finish (WF) 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>25.0</td>
</tr>
<tr>
<td>Flexural Strength, ASTM C203, psi, min</td>
<td>40.0</td>
</tr>
<tr>
<td>Dimensional Stability, ASTM D2126</td>
<td>0.2% max</td>
</tr>
<tr>
<td>Water Vapor Permeance, ASTM E96, perms, max</td>
<td>0.03</td>
</tr>
<tr>
<td>Maximum Use Temperature, °F.</td>
<td>250</td>
</tr>
<tr>
<td>Surface Burning Characteristics, ASTM E84 for both foam core and finished product</td>
<td>Class A</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>25</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td>&lt;450</td>
</tr>
</tbody>
</table>

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

(2) Based on 1” thickness.

(3) Calculated flammability values for this or any other material are not intended to represent hazards that may be present under actual fire conditions.
TESTING

Notice

Thermax™ White Finish complies with the following codes:

- FM 4880 – Wall-Ceiling Construction Metal-Faced – Class 1 Fire Rated to Max. 30’ High, 4.25” Thick, 4’ Wide, When Installed as Described in the Current Edition of FMRC Approval Guide
- Thermax™ products are classified by Underwriters Laboratories Inc. (UL)
- 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
- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies – no leakage
- The following designs are 1, 2, 3 or 4 hour wall rated assemblies as listed in the UL Fire Resistance Directory: U026, U324, U325, U326, U330, U354, U355, U460, U902, U905, U906, U907
- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies – no leakage

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.

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

- When cutting or sawing DuPont™ Thermax™ White Finish (WF) Insulation, care should be taken not to mar the surface.
- Butt joints must be installed over structural members. When installing Thermax™ White Finish in high-humidity environments, best practice includes continuously sealing the surface of the insulation at all joints with a DuPont joint closure system.
- 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 1-519-339-3711 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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For more information visit us at thermawallsystem.com or call 1-866-583-2583

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