Product Information Sheet

DuPont™ Thermax™ White Finish Insulation

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

FEATURES/BENEFITS

Description

DuPont™ Thermax™ White Finish 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 1) 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 helps reduce light energy cost and air infiltration
- 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.

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.

Sustainable Solutions

Thermax™ White Finish Insulation is manufactured with a zero ozone depleting potential blowing agent. The use of Thermax™ brand insulation helps reduce the carbon footprint of commercial buildings. Thermax™ is compliant with California Department of Public Health (CDPH) VOC emissions requirements.

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

Nominal Foam Thickness, in.	R-Value[1][2]	Board Size (ft.)	Edge Treatment
3.25	20.5	4 x 8	Square Edge
3.5	22	4 x 8	Square Edge

[1] Stabilized R-values of core foam @ 75°F mean temperature determined in accordance with ASTM C518.
[2] R-values expressed in $ft^2 \cdot h \cdot °F/Btu$.

* R means resistance to heat flow. The higher the R-value, the greater the insulating power.

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 2. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-833-338-7668 when additional guidance is required for writing specifications that include this product.

Table 2: Physical Properties of Thermax™ White Finish Insulation

Property and Test Method	Value
Compressive Strength[1,] ASTM D1621, psi, min.	25.0
Flexural Strength, ASTM C203, psi, min.	40.0
Dimensional Stability, ASTM D2126	0.2% max.
Water Vapor Permeance[2,] ASTM E96, perms, max.	<0.01
Maximum Use Temperature, °F.	250
Surface Burning Characteristics[3], ASTM E84 for both foam core and finished product Flame Spread Smoke Developed	 Class A 25 <450

[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

DuPont™ Thermax™ White Finish complies with the following codes:

- **C203** – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- **C209** – Standard Test Methods for Cellulosic Fiber Insulating Board
- **C518** – Standard Test Method for Steady- State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
- **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 Methods for Water Vapor Transmission of Materials
- **D1623** – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics)

Notice

Thermax™ White Finish complies with the following codes:

- ASTM E2178 Standard Test Method for Air Permeance of Building Materials – leakage rates less than 0.001 L/s/m^2 at a test pressure of 75 Pa.
- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- 2021, 2018, 2015, 2012 and 2009 International Residential Code (IRC) Section 316
- 2021, 2018, 2015, 2012 and 2009 International Building Code (IBC) Section 2603.
- 2019 California Green Building Standards Code
- 2020 ICC 700 National Green Building Standard
- Thermax™ 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
- Intertek CCRR-0435
- Miami-Dade County approved

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

Warranty

In the USA, a 20-year limited thermal warranty is available. Visit building.dupont.com/warranties or contact your DuPont representative for details.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 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 1-833-338-7668.

Disposal

Dispose of any residual Thermax™ Brand product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.

For more information visit us at thermaxwallsystem.com or call 1-833-338-7668

FOR PROFESSIONAL USE ONLY

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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