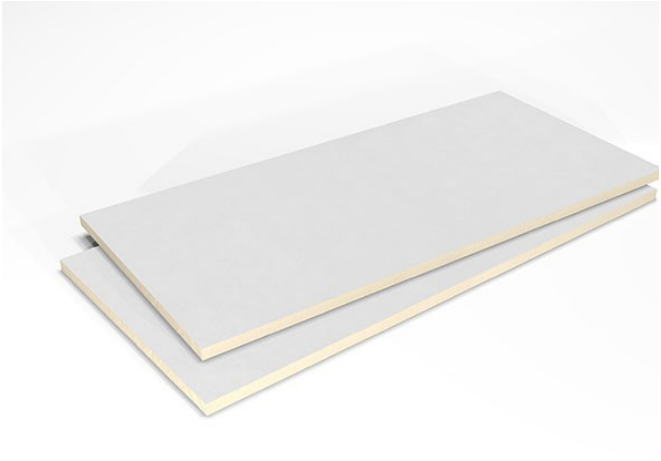
DuPont™ Thermax™ White Finish NH Insulation

Non-Halogenated (NH), Embossed White Acrylic Coated, Glass-Fiber Reinforced Polyiso Foam Insulation

OVERVIEW

Description

DuPont™ Thermax™ White Finish NH Polyisocyanurate Insulation is designed for use as both an insulation and interior finish system. It is suitable for interior masonry or concrete walls, as well as walls and ceilings in metal, wood post frame, and concrete or masonry buildings, adhering to building code requirements.



Thermax™ White Finish NH Insulation features a glass-fiber-reinforced polyisocyanurate foam core, with one side faced with 1.25 mil embossed white acrylic-coated aluminum and the other with 0.9 mil smooth aluminum. The white embossed surface is aesthetically pleasing and easy to clean, capable of withstanding pressure washing up to 1,000 psi. It also meets USDA requirements for incidental food contact when used on surfaces like floors, walls, and ceilings.

Thermax™ Brand Insulations are manufactured using an exclusive free-rise process, resulting in a closed-cell foam with enhanced fire performance. This foam core, combined with durable facers, provides high R-value, excellent dimensional stability, and moisture resistance. When paired with the appropriate joint closure system, **Thermax™ White Finish NH Insulation's** low perm rating effectively prevents moisture condensation within and behind the insulation.

Features and Benefits

- **Ease of Installation:** Can be installed exposed to the interior without a thermal barrier. Able to be adhered directly to masonry walls with a construction grade adhesive. Is lightweight, easy to cut, handle and install. Can be sawed or cut with a knife, small hand saw or circular saw.
- **High Performance Durability:** Composed of white acrylic facers that resist damage. Zero ozone-depleting potential. R-Value of 6.6 at 1" thickness.
- **Moisture Resistant and UV Stability:** Helps reduce the potential for condensation within the wall assembly. Reduces light energy cost and air infiltration. Pressure washable up to 1,000 psi.

Sustainable Solutions

- Ozone and Global Warming: Zero ozone-depleting potential (ODP) and negligible global warming potential.
- Thermax™ White Finish NH Insulation is a continuous polyisocyanurate (polyiso) insulation engineered to fulfill key sustainability criteria;
- Continuous Insulation (CI): Aids in meeting IECC and ASHRAE 90.1 energy standards.
- Halogen-Free: Manufactured with halogen-free flame retardants.

Applications

DuPont™ Thermax™ White Finish NH Insulation is an ideal solution for the following building types:

- Thermax™ White Finish NH Insulation is an ideal solution for interior applications over steel stud, masonry, and CMU/concrete walls for the following building types:
- Institutional Buildings
- Metal Buildings
- High Rise Buildings.
- Multifamily Buildings
- Mixed-Use and Retail Buildings.
- Public Municipal Buildings.

Warranty

- In the US, a 20-year thermal warranty is available. For additional warranty information, please visit building.dupont.com or contact your DuPont representative for details.

- Energy Efficiency: Glass fiber-reinforced foam core with high R-value. Reduces the carbon footprint by minimizing energy consumption for comfort.
- Red List Approved: 99% of ingredients in the final product, present at or above 100 ppm, are free from Red List chemicals and qualify for LEED v4 and v4.1 credits.
- Sustainable Manufacturing: Made from 100% renewable electricity. (DuPont has offset electricity usage with Renewable Energy Credits since 2016.)
- Safer by Design: Low VOC, HFC free, can be left exposed without a thermal barrier (UL 1715).

Standard Sizes

Standard Sizes, R-Values and Edge Treatments for Thermax™ White Finish NH Insulation

Thickness	Width	Length	R-Value	Edge Treatment
0.5 in.	4 ft.	8 ft.	3.6	Square Edge
0.75 in.	4 ft.	8 ft.	5.1	Square Edge
1.0 in.	4 ft.	8 ft.	6.6	Square Edge
1.55 in.	4 ft.	8 ft.	10.0	Square Edge, Shiplap
2.0 in.	4 ft.	8 ft.	13.0	Square Edge, Shiplap
2.5 in.	4 ft.	8 ft.	16.0	Square Edge
3.0 in.	4 ft.	8 ft.	18.5	Square Edge, Shiplap
3.25 in.	4 ft.	8 ft.	20.0	Square Edge, Shiplap

Note: Please be advised that additional sizes may be available. Availability of all sizes varies by region and is subject to change. For further information, please contact your local DuPont Sales Representative or call us at 1-866-338-7668.

TESTING AND CODE COMPLIANCE

Thermax™ White Finish NH Insulation exhibits the properties and characteristics indicated in the table below when tested as represented. 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.

TEST METHOD	TEST TITLE	PROPERTY	RESULTS
FIRE			
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Surface Burning Characteristics[1]	Flame Spread ≤ 25 Smoke Developed ≤ 450 Core and Finished Product
UL 1715	Standard for Safety Fire Test of Interior Finish Material	Fire Progagation - Interior	Pass
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Fire Progagation - Exterior[2]	Pass
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	Fire Progagation - Interior	Pass
NFPA 268	Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source	Ignitabiilty - Exterior	Pass
THERMAL			
ASTM C518	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus	Thermal Resistance 1 inch @ 75°F mean temp[3]	6.6 ft^2 •h•°F/Btu, R-value, min.
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging	Dimensional Stability	0.2% linear (length & width)
STRENGTH			
	Standard Test Method for Compressive Properties of Rigid Cellular		

ASTM D1621	Plastics	Compressive Strength[4]	20 psi
ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation	Flexural Strength	50 psi
ASTM D1623	Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics	Tensile Strength	500 psf, min.
AIR			
ASTM E2178	Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	Leakage rates less than 0.0001 L/s/m^2 at a test pressure of 75 Pa.	Pass
ASTM E2357	Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies	Air Leakage	No Leakage
WATER			
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Water Vapor Permeance.	0.01 perm
ASTM C209	Standard Test Methods for Cellulosic Fiber Insulating Board	Water Absorption	0.1% volume, max.
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference	Water Penetration	Pass

[1]Calculated flammability values for this or any other material are not intended to represent hazards that may be present under actual fire conditions.

[2]See Jensen Hughes engineering judgement

[3]R-value of 1.0-inch of foam measured @ 75°F mean temperature, determined in accordance with ASTM C518 after aging for 90 days @ 140°F.

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

CODE COMPLIANCE

Thermax™ White Finish NH Insulation complies with the following codes:

CODE	DESCRIPTION
US Product Listings & Verifications	ASTM C1289 - Type I, Class 2 2021, 2018, 2015, 2012, 2009 International Building Code (IBC) 2021, 2018, 2015, 2012, 2009 International Residential Code (IRC) 2021, 2018, 2015, 2012, 2009 International Energy Conservation Code (IECC) 2021, 2018, 2015, 2012 International Green Construction Code (IGCC)
Regional Code Listings & Reports	2022 California Green Standards Code California Bureau of Household Goods And Services Directory of Certified Insulation Materials - T 1534
US Code Reports	Intertek CCRR-0440 DrJ TER 1506-03

HANDLING

Warning

- **WARNING: For Professional Use Only** - Read and follow the entire Safety, Handling, and Storage section carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont products.

  Due to the critical technical design aspects of many of its applications, DuPont recommends that qualified designers or consultants design your system. Follow all applicable federal, provincials, territories, local and employer regulations.

Precautionary Statements

- **CAUTION:** Thermax™ Brand Insulation is combustible. 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

Product Limitations

- 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.

Cleanup & Disposal

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

Life & Storage

- During shipment, storage, installation and use, this material should not be exposed to flame or other ignition sources.

  Store above standing water

866-583-2583 or contact your local building inspector. For emergencies contact Chemtrec 800-424-9300, CCN (Contract Number) 7442.

- Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.
- If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate.

Supplemental Information

- The product meets the definition of an article and is exempt from US TSCA and Canadian DSL inventory requirements.

  Compliant with Title 42 Chapter 85 Clean Air Act: Subchapter VII American Innovation and Manufacturing Act of 2020, and Section 612 US EPA Significant New Alternative Policy. Global Warming Potential <150. This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Handling & Use

- Use gloves to protect from mechanical injury.
- Before installation, substrate must be clean, dry, smooth and free from oil, grease, rust, frost and snow. Since dust would impair the performance of adhesives and finishes, dusty surfaces should be brushed off before products are applied.
- When cutting or sawing DuPont™ Thermax™ White Finish NH (WF) Insulation, care should be taken not to mar the surface.

For more information, visit us at
building.dupont.com
or call us at 1-833-338-7668

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