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THERMAX SHEATHING

THERMAX Sheathing polyisocyanurate insulation is a non-structural, rigid board insulation consisting of a glass-fiber reinforced polyisocyanurate foam core laminated between pinhole-free aluminum foil facers. The glass-fiber reinforcement, along with chemical modifications, contributes to improved fire performance and enhanced dimensional stability.

Install THERMAX Sheathing in a range of applications including:

- New frame wall construction behind masonry, siding, exterior stucco or other compatible finishes
- Interior basement applications
- Exposed installation in attics, the interior side of basement foundation walls, crawl space walls without a thermal barrier

CODE COMPLIANCE

THERMAX Sheathing complies to the following standards and codes:

- IRC/IBC - International Residential Code, Section 318, International Building Code, Section 2603
- BOCA - Section 2603.0 and Research Report #98-25
- ICBO - Section 2602 and Evaluation Report #3223
- SBCCI - Section 2603 and Evaluation Report #9574 C
- CCMC - Canadian Construction Materials Centre Evaluation Listing No. 08433-L
- FHA - Federal Housing Administration Minimum Property Standards
- Federal Specification HH-I-1972/1, Class 2
- ASTM C 1289, Type I, Class 2
- Underwriters Laboratories Inc. Classified 26P9, 42P1, 43M3
- Factory Mutual System approved (see current edition of the FMRC Approval Guide for installation details)

Feature	Benefit
High long-term R-Value ¹	Reduces energy costs by using thermally efficient, closed-cell polyisocyanurate foam
Pinhole-free aluminum facers	Can be detailed as an air barrier; prevent air penetration and water vapor intrusion
¹ R-Value means resistance to heat flow. The higher the R-Value, the greater the insulating power	

Because of its improved fire performance, THERMAX Sheathing is especially appropriate for time-rated assemblies.

PROPERTIES

THERMAX Sheathing is available in the following dimensions:

- Thicknesses from 1/2" to 2"
- Lengths from 8', 9', and 10' are standard
- Standard widths of 48"

Physical Properties of THERMAX Sheathing	
Property and Test Method	Value
Nominal density, ASTM D 1622, pcf	2
Water vapor permeance, ASTM E 96 (desiccant method), perms	<.03
Water absorption as percent increase by volume max., ASTM C 209 (2 hr), % max	0.3
Compressive strength, ASTM D 1621 (thickness direction), psi, min.	25
Tensile strength, ASTM D 1623, psi, min.	25
Shear strength, ASTM C 273 @ 74°F (parallel and perpendicular), psi, min.	24
Shear modulus, ASTM C 273 (parallel and perpendicular), psi, min.	250
Flexural strength, ASTM C 203, (modulus or rupture), psi	1" = 88/59 2" = 63/54
Dimensional stability, ASTM D 2126 (length or width), % change	200°F < 1.0 40°F < 1.0 158°F at 97% RH: <1.0
Flash ignition temperature, ASTM D 1929, °F	900
Self ignition temperature, ASTM D 1929, °F	1025
Operation temperature range, °F	-100 to +250

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Nominal Board Thickness (in.)	.5	.75	1.0	1.25	1.55	1.75	2.0	2.5	3.0	4.0
R-Value	3.3	5.0	6.5	8.0	10.0	11.4	13.0	15.8	19.0	25.3

AVAILABILITY & PACKAGING

- 3/4" x 4' x 8' - 60 pcs. per bundle
- 1" x 4' x 8' - 44 pcs. per bundle
- 1 1/2" x 4' x 8' - 30 pcs. per bundle
- 1 3/4" x 4' x 8' - 22 pcs. per bundle
- 2" x 4' x 8' - 22 pcs. per bundle
- 2 1/2" x 4' x 8' - 18 pcs. per bundle
- 3" x 4' x 8' - 14 pcs. per bundle

The sizes listed here represent the current inventory. Other sizes are available by request. This list subject to change without notice.

