

PRODUCT DATA SHEET

TSX-8510

INSULATION FOR EXPOSED INTERIOR USE

PRODUCT DESCRIPTION

Rmax® TSX-8510 is an energy-efficient thermal insulation board composed of a closed-cell polyisocyanurate (polyiso) foam core bonded to glass fiber reinforced aluminum facers on both sides. The exposed side of the board has a white modified acrylic coating. The other side is marked in production to ensure proper installation.

COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- ASHRAE Standard 90.1
- International Energy Conservation Code (IECC)
- International Residential Code (IRC), R316 Foam Plastic
- International Building Code (IBC) 2603, Foam Plastic Insulation
- DRJ Technical Engineering Report (TER) 1309-03
- Miami-Dade County Product Control Approved
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Class A Flame Spread and Smoke Developed Indices per IBC Chapter 8, Interior Finishes
- Tested per UL1715/NFPA 286 to comply with IBC Section 2603, Special Approval paragraph
 - Up to 4.5" without a thermal barrier on walls only
 - Up to 12" without a thermal or ignition barrier on ceilings only
 - Up to 4.5" without an ignition barrier on walls and ceilings
- 1, 2, 3 or 4 hour Fire Rated Assemblies as shown in the UL Fire Resistance Directory

NOTE: For details, requirements and/or limitations, refer to Third-Party Evaluation Reports

APPLICATIONS

Pre-engineered metal buildings; tilt-up construction; wood stud basements and crawl spaces; farm or storage buildings; parking structures; laminate panels and other similar applications

THERMAL PROPERTIES / PRODUCT DATA

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

NOMINAL THICKNESS	THERMAL R-VALUE ¹
Inches	°F·ft ² ·hr/Btu
0.50	3.2
0.75	5.0
1.00	6.0
1.10	6.7
1.25	7.8
1.50	9.6
1.55	10.0
1.75	11.4
2.00	13.1
2.10	13.9
2.30	15.3
2.50	16.7
2.90	19.6
3.00	20.3
3.50	23.9
3.70	25.3
4.00	27.4
4.50	31.0

¹Thermal values are determined by using ASTM C518 test method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.

TSX-8510 is shipped in bundles that are approximately 48" high and wrapped in plastic for easy handling. Visit rmax.com for a complete list of thicknesses and packaging information.

TYPICAL PHYSICAL PROPERTIES

Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

PROPERTY		TEST METHOD	RESULTS
Density, Overall, Nominal		ASTM D1622	2.0 pcf
Compressive Strength ¹		ASTM D1621	20 psi Standard 25 psi Available Upon Request
Flexural Strength		ASTM C203	60 psi
Flame Spread, Faced ²		ASTM E84	25 or Less
Smoke Developed, Faced ²		ASTM E84	< 450
Air Permeance		ASTM E2178	< 0.02 L/(s·m ²)
Water Vapor Permeance		ASTM E96	< 0.1 Perm
Water Absorption		ASTM C1763 Procedure B	< 0.2% Vol.
Dimensional Stability, Length & Width		ASTM D2126	< 1% Linear Change
Mold Resistance		ASTM D3273	10, no defacement
White Side	Reflectance	ASTM E408	0.44 0.56
	Emittance		
Silver Side	Reflectance	ASTM E408	0.96 0.04
	Emittance		
Service Temperatures			250°F max

¹Less than 1" is standard at 16 psi.

²Flame spread and smoke numbers are shown for comparison purposes only and are not intended to represent the performance of TSX-8510 and related components under actual fire conditions.

APPLICATION / INSTALLATION

General – TSX-8510 passes UL1715/NFPA 286 in single or multiple layers without joint treatment of any kind.* Therefore, the boards only need to be tightly butted. However, taping the seams is acceptable using R-SEAL 3000W, or equivalent. For a more professional, finished look, use Rmax's PVC insulation clip. Refer to Rmax® publication, "Joint Closure Recommendations and Installation Instructions for Interior Exposed Applications," for additional information and guidelines on installation, joint treatment and sealing techniques.

TSX-8510 may be covered with an interior finish product provided it is compliant with the requirements of IBC Chapter 8, including interior paint. A quality grade acrylic latex paint is recommended for coating the surface. While primer is not generally required, consult the paint manufacturer and/or industrial paint supply for recommendations and best practice.

Securement – TSX-8510 may be fastened to wood framing using washers with roofing nails or bugle head screws or minimum 3/4" cap nails. The fasteners shall be long enough to penetrate wood framing a minimum of 1". TSX-8510 may be fastened to metal framing using self-taping screws and plastic washers. The fasteners shall be long enough to penetrate metal framing a minimum of four threads. The insulation boards shall be installed with all edges tightly butted and vertical joints backed by framing. When the insulation boards are installed horizontally, i.e., perpendicular to framing, the maximum span shall be 5'. TSX-8510 may be secured to concrete surfaces using plastic masonry fasteners with washer or a quality grade construction adhesive. TRUFAST Walls fasteners, sold by Rmax®, are a great option for fastening TSX-8510 to wood, steel and concrete substrates. Refer to the Rmax®/TRUFAST Walls Fastener List and Installation Guide for more details.

Pressure Washable – TSX-8510 is pressure washable, up to 1000 psi using a cleaning spray rig. The wand nozzle must have a fan spray tip with an angle of at least 15 degrees. The washing wand should not be used at a distance of less than 3' from the surface of the insulation board. Pressures greater than 1000 psi may result in damage to the insulation facer.

LIMITATIONS

TSX-8510 is not recommended, nor warranted, for use as a commercial roof insulation directly under membrane systems. Consult Rmax® Sales for suitable commercial roof insulation products. TSX-8510 is not a structural panel; stud walls insulated with TSX-8510 must be properly braced for lateral loads according to the requirements of local Building Codes.

WARNING

Polyiso is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading.

Consult local building codes and insurance authorities regarding special applications or details required when using TSX-8510 as an exposed product.

Per the IBC, a WRB is required behind the exterior wall veneer. The code also has provisions regarding vapor retarders, type and location, based on the assembly, climate zone and the amount of continuous insulation. It is up to the design professional to specify an assembly that will perform adequately and meet these requirements.

WARRANTY

See Rmax® sales policy and limited warranties for terms and conditions. Rmax® does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmax. **NOTE: Factory packaging should not be relied upon as protection at job sites or other outdoor storage locations. When short-term outdoor storage is necessary, take the following precautions: Store flat above ground on raised pallets, place bundles on finished surfaces, cover with a breathable tarpaulin and secure cover to prevent wind displacement.**

*Walls only or ceilings only without a thermal barrier or walls and ceilings without an ignition barrier.

For complete details on warranties, limitations, and conditions, please refer to the Rmax® Sales Policy and applicable warranties available at rmax.com.

For sales inquiries, customer support, or technical assistance, visit rmax.com to connect with our team.



Rmax®, A Business Unit of Sika Corporation

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Manufacturing Plant Locations

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