

TSP®

INSULATION FOR THE BUILDING ENVELOPE

PRODUCT DESCRIPTION

Rmax TSP® is an energy-efficient thermal insulation board composed of a closed-cell polyisocyanurate (polyiso) foam core bonded to glass fiber reinforced aluminum foil facers on each side.

COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- ASHRAE 90.1
- International Building Code (IBC) Section 2603, Foam Plastic
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Miami-Dade County Product Control Approved
- Tested per NFPA 286 (ICC-ES AC12 Appendix B)

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

APPLICATIONS

Industrial laminate panel (e.g. tanks)

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
0.75	5.0
1.00	6.0
1.10	6.7
1.25	7.8
1.50	9.6
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.

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	ASTM D1621	20 psi ¹
Flexural Strength	ASTM C203	60 psi
Flame Spread, Faced ²	ASTM E84	75 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 C209	< 0.2% Vol.
Dimensional Stability Length and Width	ASTM D2126	< 1% Linear Change
Mold Resistance	ASTM D3273	10, no defacement
Service Temperatures		250°F max

¹Available in 25 psi upon request. Less 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 TSP® and related components under actual fire conditions.

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

LIMITATIONS

TSP 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. TSP is not a structural panel. It must not be used as a nailing base for any other building products. Furthermore, walls insulated with TSP must be properly braced for lateral loads according to the requirements of local Building Codes.

WARNING

DO NOT leave TSP exposed. Polyiso foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flame spreading. Consult your local Authorities for specific governing codes and requirements.

WARRANTY

See Rmax "Sales Policy" 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.**



RMAX SALES OFFICES / PLANT

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PRODUCT DATA SHEET

TSP®

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2 / 2



BUILDING TRUST

