



TSP-3

Insulation for the Building Envelope

ROOF
WALL
SPECIALTY

PRODUCT DESCRIPTION

Rmax TSP-3 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
- International Building Code (IBC) Section 2603, Foam Plastic
- ASHRAE 90.1
- Miami-Dade County Product Control Approved
- California Code of Regulations, Title 24 (BHFTI License T1523)
- Tested per NFPA 286 (ICC-ES AC12 Appendix B)

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.

²Includes the ASHRAE assigned 2.77 R-value of a ¾" air tight space against a reflective foil in a typical wall assembly.

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 Also Available in 25 psi Upon Request
Flexural Strength	ASTM C203	60 psi
Flame Spread, Faced ²	ASTM E84	75 or Less
Smoke Developed, Faced ²	ASTM E84	< 450
Air Barrier	ASTM E2178	<0.02 L/(s.m ²)
Water Vapor Transmission	ASTM E96	< 0.03 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

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 TSP-3 and related components under actual fire conditions.

TSP-3 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-3 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-3 is not a structural panel. It must not be used as a nailing base for any other building products. Furthermore, walls insulated with TSP-3 must be properly braced for lateral loads according to the requirements of local Building Codes.

WARNING

DO NOT leave TSP-3 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" and applicable 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: All Rmax products must be tarped, placed on skids and kept dry before and throughout construction.

Rmax Sales Offices and Plant Locations

Central:

13524 Welch Road
Dallas, Texas 75244

Phone: 972-387-4500

Fax: 972-387-4673

Toll Free: 1-800-527-0890

E-mail us at rmax@rmax.com or visit our website www.rmax.com

East:

1649 South Batesville Road
Greer, South Carolina 29650

Phone: 864-297-1382

Fax: 864-234-7548

Toll Free: 1-800-845-4455

West:

210 Lyon Drive
Fernley, Nevada 89408

Phone: 775-575-4849

Fax: 775-575-5035

Toll Free: 1-800-762-9462



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