Rmax TSX-8500 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 both sides. The exposed side of the board has a heavy 1.5mil aluminum reflective surface. The other side is marked in production to ensure proper installation. TSX-8500 utilizes a CFC-, HCFC- and HFC-free blowing agent that has zero Ozone Depletion Potential (ODP) and negligible Global Warming Potential (GWP). This insulation is suitable for use in walls, ceilings and some limited roofing applications in new construction for commercial, residential, agricultural and industrial buildings and in thermal retrofit construction within existing buildings. It is also suitable within pre-engineered metal buildings, laminate panels and other similar applications. TSX-8500 is designed for use without a thermal barrier to provide an attractive interior finish.

CONSTRUCTION APPLICATIONS
• Select NFPA 285 assemblies; masonry walls; stud walls; pre-engineered metal buildings; agricultural, farm, storage buildings and other light commercial structures; laminate panels

INCENTIVE OPPORTUNITIES
• Reduces energy costs
• Reduces material and labor costs
• Contributes toward LEED® credits
• Offers tax credits, where applicable

TSX-8500 is shipped in bundles that are approximately 48 inches high and wrapped in plastic for easy handling. Visit www.rmax.com/resources.asp for a complete list of thicknesses and packaging information.

<table>
<thead>
<tr>
<th>Nominal Thickness</th>
<th>Thermal R-Value</th>
<th>R/Inch</th>
<th>System R-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>°F-ft²-hr/ft²</td>
<td>°F-ft²-hr/ft²</td>
<td>°F-ft²-hr/ft²</td>
</tr>
<tr>
<td>1.00</td>
<td>6.0</td>
<td>6.0</td>
<td>8.77</td>
</tr>
<tr>
<td>1.50</td>
<td>9.6</td>
<td>6.40</td>
<td>12.37</td>
</tr>
<tr>
<td>1.60</td>
<td>10.3</td>
<td>6.44</td>
<td>13.07</td>
</tr>
<tr>
<td>2.00</td>
<td>13.1</td>
<td>6.55</td>
<td>15.87</td>
</tr>
<tr>
<td>2.50</td>
<td>16.7</td>
<td>6.68</td>
<td>19.47</td>
</tr>
<tr>
<td>3.00</td>
<td>20.3</td>
<td>6.77</td>
<td>23.07</td>
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<tr>
<td>3.50</td>
<td>23.9</td>
<td>6.83</td>
<td>26.67</td>
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<tr>
<td>4.00</td>
<td>27.4</td>
<td>6.85</td>
<td>30.17</td>
</tr>
<tr>
<td>4.50</td>
<td>31.0</td>
<td>6.89</td>
<td>33.77</td>
</tr>
</tbody>
</table>

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

Includes the ASHRAE assigned 2.77 R-value of a ¾” dead-air space against a reflective foil in a typical wall assembly.
Masonry Wall Construction - TSX-8500 is applied to the interior face of concrete or concrete masonry walls to provide a layer of continuous insulation (ci) over the entire surface. It may be attached directly to the furring strips. For example, TSX-8500 is an excellent product for use in insulating basement walls, parking structures and standard cavity walls. It can also be used in conjunction with tilt-up wall panels.

Stud Wall Construction - TSX-8500 may be applied to the interior face of wood or metal studs to provide a layer of continuous insulation (ci) over the entire surface. Simply secure the TSX-8500 directly to the framing members. For example, TSX-8500 is an outstanding product for use in insulating the walls or ceilings of attics and crawl spaces. Consult your local Building Code for ventilation requirements within attics and crawl spaces.

**APPLICATION / INSTALLATION**

**General** - TSX-8500 passed UL1715 (walls only or ceilings only) without joint treatment of any kind. Therefore, the boards only need to be tightly butted. However, taping the seams is acceptable using Venture Tape 1520CW® or 1525CW®, or equivalent. TSX-8500 may be covered with an interior finish product provided it is compliant with the requirements of IBC Chapter 8.

TSX-8500 can be specified in exterior walls of buildings of any height utilizing brick veneer, stucco, limestone or natural stone veneer, cast artificial stone veneer or terracotta cladding. TSX-8500 has been tested per NFPA 285 and successfully passed with the exposed side, as marked in production, facing the exterior. Approval is dependent on all components of the assembly. All details, including components and installation of the tested assembly, should be followed during construction. For a full explanation of the tested assembly and acceptable components, refer to Rmax Architectural Solutions: NFPA 285 and Exterior Walls with Rmax TSX-8500. Final test reports and third party listings should also be consulted for specific instructions.

**Water-Resistive Barrier** - When TSX-8500 is installed over steel studs with the joints sealed, it serves as a Water-Resistive Barrier. TSX-8500 has been tested per the guidelines set forth in the ICC-ES Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water-Resistive Barriers (AC71). Consult Rmax Technical for required installation guidelines.

**Air Barrier Material** - The air permeance of an air barrier material is defined by the Air Barrier Association of America (ABAA) as being no greater than 0.02 L/(s.m²) at 75 Pa pressure difference when tested in accordance with ASTM E2178, Standard Test Method for Air Permeance of Building Materials. TSX-8500 has been tested per ASTM E2178 and exceeds this requirement.

**TYPICAL PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density, Overall, Nominal</td>
<td>ASTM D1622</td>
<td>2.0 pcf</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D1621</td>
<td>20 psi</td>
</tr>
<tr>
<td>Flame Spread, Faced</td>
<td>ASTM E84</td>
<td>25 or Less</td>
</tr>
<tr>
<td>Smoke Developed, Faced</td>
<td>ASTM E84</td>
<td>&lt; 450</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96</td>
<td>&lt; 0.3 perm</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C209</td>
<td>&lt; 1% Vol.</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D2126, 7 days, 158°F, 98% rh</td>
<td>&lt; 2% Linear Change</td>
</tr>
<tr>
<td>Air Permeance</td>
<td>ASTM E2178</td>
<td>&lt; 0.02 L/(s.m²)</td>
</tr>
<tr>
<td>Service Temperatures</td>
<td></td>
<td>-40°F to +250°F</td>
</tr>
</tbody>
</table>

1 Also available in 25 psi upon request.
2 Flame spread and smoke numbers are shown for comparison purposes only and are not intended to represent the performance of TSX-8500 and related components under actual fire conditions.
**Limitations**

TSX-8500 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-8500 is not a structural panel. It must not be used as a nailing base for any other building products. Furthermore, stud walls insulated with TSX-8500 must be properly braced for lateral loads according to the requirements of local Building Codes.

**Warning**

Polyiso foam 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-8500 as an exposed product.

The interior and/or exterior of the building should be protected with a suitable vapor retarder and/or a water resistive barrier, if required, based on local Building Codes and climate zone.

**Warranty**

See Rmax “Sales Policy” for warranty 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.

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**Pre-Engineered Metal Buildings** - TSX-8500 provides a layer of continuous insulation (ci) for pre-engineered metal buildings in one easy step. The TSX-8500 is simply fastened to the face of the girts or between the girts and the metal exterior skin of the building.

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**Agricultural, Farm, Storage Buildings and Other Light Commercial Structures** - TSX-8500 is pressure washable and may be used as an exposed, finished, continuous insulation (ci) system in agricultural, farm, storage buildings and other light commercial structures where local Building Codes will permit such use.

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*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 feet from the surface of the insulation board. Pressures greater than 1000 psi may result in damage to the insulation facer.
LIMITED WARRANTY

No warranty exists as to the contrary, neither Rmax Operating, LLC, nor any of its employees, representatives, agents or other affiliates (collectively, “Rmax”) makes any representation or warranty whatsoever, whether express or implied, concerning the Product, except that the Product was manufactured in accordance with specifications set forth in ASTM C1289, at the time of purchase is free from any lien or encumbrance, and, for a period of one (1) year from the date of the delivery of the Product, is free from defects in materials and workmanship.

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CHOICE OF LAW

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WARNING

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

LEGEND

Terms and Definitions: Polyisocyanurate - a material with an open cell structure, which burns rapidly and with heat released, becomes a source of flame, and is classified as Polyisocyanurate. Polyisocyanurate is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity, and may contribute to flames spreading.

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ANY DISPUTE ARISING OUT OF OR RELATING TO THIS TRANSACTION SHALL ONLY BE LITIGATED IN AN APPROPRIATE FEDERAL OR STATE COURT LOCATED IN DALLAS COUNTY, TEXAS.

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