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 foil facers on both sides. The exposed side of the board has a heavy 1.5mil white aluminum surface. The other side is marked in production to ensure proper installation. TSX-8510 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 panel products and other similar applications. TSX-8510 is designed for use without a thermal barrier to provide an attractive interior finish.

CONSTRUCTION APPLICATIONS
• Masonry walls; stud walls; pre-engineered metal buildings; agricultural, farm, storage buildings and other light commercial structures; laminate panel products

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

THERMAL PROPERTIES / PRODUCT DATA
"R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

<table>
<thead>
<tr>
<th>Nominal Thickness</th>
<th>Thermal R-Value¹</th>
<th>R/Inch</th>
<th>System R-Value²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>°F·ft²·hr/Btu</td>
<td></td>
<td>°F·ft²·hr/Btu²</td>
</tr>
<tr>
<td>1.00</td>
<td>6.0</td>
<td>6.00</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>
</tr>
<tr>
<td>3.50</td>
<td>23.9</td>
<td>6.83</td>
<td>26.67</td>
</tr>
<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>

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” dead-air space against a reflective foil in a typical wall assembly.

TSX-8510 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.
**TYPICAL PHYSICAL PROPERTIES**

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

<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 psi²</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, 96% rh</td>
<td>&lt; 2% Linear Change</td>
</tr>
<tr>
<td>Service Temperatures</td>
<td></td>
<td>-40°F to +250°F</td>
</tr>
</tbody>
</table>

¹Also available in 25 psi upon request.
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 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 1558HT or equivalent. TSX-8510 may be covered with an interior finish product provided it is compliant with the requirements of IBC Chapter 8.

**Masonry Wall Construction** - TSX-8510 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-8510 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-8510 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-8510 directly to the framing members. For example, TSX-8510 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.

**Pre-Engineered Metal Buildings** - TSX-8510 provides a layer of continuous insulation (ci) for pre-engineered metal buildings in one easy step. The TSX-8510 is simply fastened to the face of the girts or between the girts and the metal exterior skin of the building.
Agricultural, Farm, Storage Buildings and Other Light Commercial Structures - TSX-8510 is pressure washable* and may be used as an exposed, finished, continuous insulation (ci) system in agricultural, farm and other light commercial structures where local Building Codes will permit such use.

**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. It must not be used as a nailing base for any other building products. Furthermore, stud walls insulated with TSX-8510 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-8510 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 tared, placed on skids and kept dry before and throughout construction.

*Pressure washable up to 1000 psi using a cleaning spray rig. 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

Notwithstanding anything 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 delivery of the Product, is free from defects in materials and workmanship. BUYER ACKNOWLEDGES AND AGREES THAT, EXCEPT AS PROVIDED ABOVE, THE PRODUCT IS BEING DELIVERED IN AN “AS IS, WHERE IS” CONDITION WITH ALL FAULTS, INCLUDING WITHOUT LIMITATION, ALL MAJOR AND MINOR DEFECTS, WITH ALL IMPLIED WARRANTIES, THEORIES OF LIABILITY AND DEFECTS AND ERRORS OF RMAX AGAINST EXPRESSOR IMPLICIT, AND WHETHER ARISING BY LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, AND USAGE OF TRADE, ANY WARRANTY REGARDING THE CONDITION OR PERFORMANCE OF THE PRODUCT, ANY PROVISION OF SECTION 23123 OF THE UNIFORM COMMERCIAL CODE, AND ANY AND ALL LIABILITY WITH RESPECT TO THE PRODUCT OR SERVICES RENDERED OR PROVIDED BY RMAX. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE WARRANTIES EXpressed HEREIN ARE EXCLUSIVE AND ARE GIVEN IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, AND (ii) ANY OBLIGATION, LIABILITY, RIGHT, CLAIM OR REMEDY, IN CONTRACT, TORT OR STRICT LIABILITY, WHETHER OR NOT ARISING OUT OF THE STATE OF NEGLIGENCE, ACTUAL OR IMPUTED. THE WARRANTIES EXPRESSED HEREIN SHALL BE THE EXCLUSIVE REMEDY FOR A DEFECT IN OR DAMAGES RELATED TO THE PRODUCT.

LIMITATION OF LIABILITY AND BUYER’S REMEDIES

In the event of a defect in the Product covered by this LIMITED WARRANTY SET FORTH ABOVE, RMAX SHALL, AT RMAX’S OPTION AND EXPENSE, REPAIR OR REPLACE THE DEFECTIVE PRODUCT OR REFUND THE AMOUNT PAID BY THE BUYER FOR THE DEFECTIVE PRODUCT. THE LIABILITY OF RMAX, IF ANY, AND BUYER’S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT, CONTRACT, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. WITHOUT LIMITATION THE FOREGOING, RMAX SHALL NOT BE LIABLE FOR BUYER’S LOSS OF USE, REVENUE OR PROFIT, OR FOR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING, WITHOUT LIMITATION, LOSS OF GOODWILL OR ANTICIPATED PROFITS); OR ANY OTHER INJURY TO PERSON OR PROPERTY OF THE BUYER HEREBY WAIVES ANY RIGHT IT MAY HAVE TO SUCH DAMAGES.

This LIMITED WARRANTY shall not be applicable to defects or damages which, upon inspection by Rmax, are determined by Rmax to be caused by any of the following:

a) Normal wear and tear.

b) Intentional vandalism or abuse, or negligent use, misuse or abuse (including any usage not in accordance with the product instructions).

c) Use of parts not manufactured or sold by Rmax.

d) Accident or natural disasters, including, but not limited to, fire, flood, lightning, earthquake, tornadoes, hail, hurricanes, wind storms, acts of war, acts of terrorism or acts of God;

e) Improper installation, operation, handling, storage, application or design, modification, alteration, structural movement or maintenance.

Claims against Rmax under the provisions of the LIMITED WARRANTY must be made within thirty (30) days after the alleged defect to which the claim relates is discovered or should have been discovered, by written notice to Rmax at the following address: 15324 Welch Road, Dallas, Texas, 75244; Attention – Technical Services. The written notice must be accompanied by the dated invoice or receipt received by the Buyer at the time of purchase. Rmax shall have sixty (60) days from receipt of such notice to inspect and analyze the alleged defective material. Unless such material is to be disposed of or to be returned be delivered to Rmax unless the Buyer has received written instructions to do so. Buyer shall have no right to deduct the amount of any claim from Rmax’s invoice until the claim is allowed or adjusted. Failure on the part of the Buyer to follow these provisions shall waive all rights under this LIMITED WARRANTY. If the claim is allowed, unless modified in writing signed by both Rmax and Buyer, this LIMITED WARRANTY is understood to be the complete and exclusive agreement between the parties, and supersedes all prior agreements, oral or written, and all other communications between the parties regarding the subject matter of this LIMITED WARRANTY. Some states and certain federal laws do not allow limitations on how long an implied warranty lasts, so such limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

GENERAL CONDITIONS

Descriptions, specifications, and recommendations described herein are subject to change without notice. Consult with Rmax Sales for the latest information. The design and construction of a roof deck and supporting structure are the responsibility of the general contractor. The general contractor and the building owner. The selection and use of Rmax Insurance and other roofing system components to meet the requirements for a project is at the sole discretion of the owner or his designated agent or representative.

Rmax does not assume any responsibility or liability for the performance of any product other than those manufactured by Rmax.

ACCEPTANCE OF ORDERS

All orders are subject to acceptance by Rmax at its corporate office in Dallas, Texas, and are not binding on Rmax unless so accepted. This acceptance constitutes a complete and binding contract which cannot be modified or canceled without written consent of both parties. The conditions stated herein shall take precedence over any other conditions, and no contrary, additional or different provisions or conditions shall be binding on Rmax unless accepted by Rmax in writing. An order has been accepted by Rmax has been written in acceptance or writing or shipped. No order will be accepted or produced until the manufacturing plant has accumulated orders of at least 15,000 board feet of any one product in any one week. Orders of less than 15,000 board feet can only be accepted if the manufacturing plant can coordinate the order with another order of similar thickness.

REVISION OF ORDERS

Change and/or cancellations of orders will be accepted providing the plant is notified five working days in advance of the requested shipping date. Notification of changes and/or cancellations must be verified in writing. On cancellations that occur after the fifth working day limit, the Buyer will be charged a restocking charge of 20% of the material has already been produced.

RETURN OF ORDERS

Returns to request material to Rmax’s plant must be cleared in advance by Rmax’s Plant Manager. Credit for approved requests to return material, when such requests are for reasons other than material of workmanship, will be issued on the basis of the price of which the goods were originally invoiced, less the actual price of re-conditioning and restocking as determined by Rmax. Such restocking charges will be no less than 20% of the invoice price of the goods. All return freight is the Buyer’s responsibility.

TITLE, SHIPMENT, RISK OF LOSS

Title to all goods furnished under this contract of sale pass to the Buyer upon delivery by Rmax to the Carrier at Rmax’s shipping point. All deliveries of goods are F.O.B. Rmax’s shipping point, unless otherwise noted in the face of the order. Rmax accepts no responsibility or liability for the performance of any product other than those manufactured by Rmax.

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.

TERMS OF PAYMENT

Payment due per terms as listed on the invoice and contingent upon the Buyer having made prior satisfactory credit arrangements. Interest at the maximum rate permitted by law will be added to all invoices not paid within the stated terms as listed on the invoice.

OUTSIDE THE USA, Rmax reserves the right to require the Carrier and customer or other parties relating to the subject matter of this LIMITED WARRANTY. Rmax Operating, LLC; 210 Lyon Drive; Fernley, Nevada 89408

TRADEMARKS – The fifty states of the United States of America, Mexico and Canada.

SHIPPING POINTS AND MANUFACTURING PLANTS – (1) Rmax Operating, LLC; 1649 S. Batesville Road; Greer, South Carolina 29650. (2) Rmax Operating, LLC; 13524 Welch Road, Dallas, Texas 75244. (3) Rmax Operating, LLC; 210 Lyon Drive; Fernley, Nevada 89408

SHIPPING METHOCS – Rmax reserves the right to require the Carrier and customer or other parties relating to the subject matter of this LIMITED WARRANTY.

TRUCKLOAD QUANTITIES

1. 4’ X 8’ panels– twenty-four (24) units per forty-eight (48) foot flatbed trailer;
2. 4’ X 20’ panels– forty-eight (48) units per forty-eight (48) foot flatbed trailer;
3. Custom length panels–Orders for lengths other than those standards noted above usually cannot be accommodated on standard flatbed trailers to permit loading of the full truckload quantity required. Buyers ordering other than standard or forty eight foot panels are required to order a variable item of standard length and size to fill out the load, or pay any increase in freight due to any inability to load full truckload (40,000 lbs) per the carrier’s standard(s) noted above.

SPECIAL ORDERS – No order will be accepted or produced until the manufacturing plant has accumulated orders of at least 15,000 board feet of any one product in any one thickness. Orders of less than 15,000 board feet can only be accepted if the manufacturing plant can coordinate the order with another order of like thickness.

LEAD TIMES – Lead time for the standard insulation products shall be five (5) to ten (10) working days from the receipt of the order at Rmax’s manufacturing plant. Lead time for non-standard length insulation products shall be ten (10) days for orders (200) working days from the receipt of the order at Rmax’s plant. This is based upon minimum orders of 30,000 board feet. Lead time for stopover or pooled freight loads shall be as noted above except that the time shall apply only from the time that Rmax can arrange the required pool truck.

LTL SHIPMENTS

LTL shipments are subject to the following conditions:

1. Minimum order is approximately 15,000 board feet.
2. All LTL shipments are invoiced at the applicable list price plus a carbon charge.
3. All LTL shipments are shipped via Rmax standard freight service, unless requested for the shipper’s insurance.

CUSTOMER PICKUP – Customer pickup of ordered goods shall be permitted provided that the Buyer makes prior arrangement with Rmax’s Plant Order Department. The Buyer shall be required to pick up goods ordered for Customer Pickup within 48 hours of Notice of availability. The minimum pickup shall be ten (10) bundles.

GENERAL PROVISIONS

This document with all attachments constitutes the entire agreement between Rmax Operating, LLC, and the Buyer and is intended as a final, complete and exclusive expression of the agreement. This agreement supersedes all previous representations, understandings and agreements. Any failure on the part of Rmax Operating, LLC to insist upon the performance of any term herein shall not be construed as a waiver or relinquishment of Rmax Operating, LLC’s right to such performance and Buyer’s obligation shall continue in full force and effect.

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

CHOICE OF LAW

The AGREEMENT SHALL BE GOVERED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS, WITHOUT REGARD TO ITS CONFLICTS OF LAW OR CHOICE OF LAW PRINCIPLES.

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.

WAIVER OF JURY

EACH PARTY HEREBY IRREVCOLVABLY WAIVES ANY AND ALL RIGHTS TO TRIAL BY JURY WITH RESPECT TO ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS TRANSACTION.