ALPOLIC® has partnered with Rmax Operating, LLC, a continuous insulation supplier, to test an innovative ACM wall assembly against the National Fire Protection Association 285 standard. ALPOLIC announced today that the wall assembly, which utilizes Rmax TSX-8500 continuous insulation, passed the rigid NFPA 285 standard.

Both ALPOLIC® panels and the Rmax TSX-8500 insulation meet the requirements for a Class A material when tested to ASTM E84 for surface flammability and smoke generated, providing a solution that meets new insulation requirements and the fire performance of the IBC and IEC.

ADVANTAGES

- Reduces Energy Costs
- Reduces Material and Labor Costs
- Contributes Toward LEED Credits
- Reduced Risk of Water Condensation and Moisture Intrusion
**WHAT IS CONTINUOUS INSULATION**

First, continuous insulation provides one of the most thermally efficient ways of complying with modern building/energy codes (see next section). Like water and electricity, heat moves quickly through the path of least resistance. These paths of least resistance are called “thermal bridges” and include things such as wood or steel studs or other highly heat-conductive materials that extend through a wall assembly. Continuous insulation provides thermal insulation in a way that essentially eliminates thermal bridging in walls that are not continuously insulated (see figure below). Thus, a continuously insulated wall assembly provides a more effective thermal barrier to prevent building heat loss and cold internal or interior wall surfaces which can result in moisture condensation and mold.

**PRODUCT DESCRIPTION**

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, as marked in production, has a heavier 1.5mil aluminum reflective surface. 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.

**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 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>

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-8500 and related components under actual fire conditions.

**COMPLIANCES**

- ASTM C1289 Type I, Class 1
- ASHRAE 90.1
- International Building Code (IBC) Section 2603, Foam Plastic
- ESR-1864, ICC Evaluation Service
- NOA No. 08-0530.03, Miami-Dade County, Florida, Expires July 8, 2012
- RR 25322, City of Los Angeles Research Report
- California Code of Regulations, Title 24
- Tested per UL1715 to comply with Section 2603.9, Special Approval, of the IBC
- Tested per NFPA 285, 2006 Edition to comply with Section 2603.5.5 of the IBC*
- Water-Resistive Barrier*
- Air Barrier Material

*Testing of TSX-8500 per NFPA 285 and AC71 (Water-Resistive Barrier) pending addition to ESR-1864.

**FOR TECHNICAL INFORMATION, PLEASE CALL 1.800.422.7270**

**U.S. HEADQUARTERS**

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