Envirosheet Rigid Board Insulation

HIGH DENSITY BOARDS

Envirosheet is a non-structural, rigid insulation board made from closed cell Expanded Polystyrene (EPS) offering cost effective performance.

Designed to be installed as continuous insulation, reduce thermal bridging and directly improve building envelope performance.

Envirosheet’s exceptionally low, long term, in-service water absorption properties allow it to maintain its specified thermal performance and durability when installed for slab on grade or below grade applications.

Amvic Advantage

- Exceptional Long-Term Thermal Resistance (LTTR).
- Increased thermal resistance in lower temperatures.
- High vapor permeance allowing wall assemblies to dry over time.
- Does not promote growth of mold and mildew.
- No off-gassing and does not contain HFCs, CFCs or HCFCs.
- Each panel is easy to handle due to the low weight and can be easily cut.
- The availability of larger panels help improve job site efficiency and reduce labor costs.

QAI Listing #B1061-1
### Physical Properties Table

<table>
<thead>
<tr>
<th>Specification for Rigid Polystyrene Insulation</th>
<th>Standard</th>
<th>Units</th>
<th>EN12 (HD)</th>
<th>EN16 (HD)</th>
<th>EN20 (HD)</th>
<th>EN30 (HD)</th>
<th>EN40 (HD)</th>
<th>EN60 (HD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN/ULC-S701</td>
<td>Type 1</td>
<td>Type 2</td>
<td>Type 2</td>
<td>Type 3</td>
<td>Type 3</td>
<td>Type 3</td>
<td>Type 3</td>
<td>Type 3</td>
</tr>
<tr>
<td>ASTM C578</td>
<td>Type I</td>
<td>Type II</td>
<td>Type II</td>
<td>Type IX</td>
<td>Type XIV</td>
<td>Type XV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal Resistance</td>
<td>F.ft².hr/Btu (m²K/W)</td>
<td>3.9 (0.69)</td>
<td>4.2 (0.74)</td>
<td>4.2 (0.74)</td>
<td>4.4 (0.77)</td>
<td>4.4 (0.77)</td>
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</tr>
<tr>
<td>Compressive Strength</td>
<td>psi (kPa)</td>
<td>12 (83)</td>
<td>16 (110)</td>
<td>22 (152)</td>
<td>30 (207)</td>
<td>40 (276)</td>
<td>60 (414)</td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>%</td>
<td>4.0</td>
<td>3.0</td>
<td>3.0</td>
<td>1.4</td>
<td>1.3</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Water Vapor Permeance</td>
<td>US perms (ng/Pa.s.m²)</td>
<td>5.00 (287)</td>
<td>3.50 (200)</td>
<td>3.50 (200)</td>
<td>2.27 (130)</td>
<td>2.27 (130)</td>
<td>2.27 (130)</td>
<td>2.27 (130)</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>psi (kPa)</td>
<td>26.2 (181)</td>
<td>34.8 (240)</td>
<td>39.6 (273)</td>
<td>55.0 (379)</td>
<td>63.7 (439)</td>
<td>105.0 (726)</td>
<td></td>
</tr>
<tr>
<td>Dimensional Stability (Max.)</td>
<td>%</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Limiting Oxygen Index</td>
<td>%</td>
<td>&gt;24</td>
<td>&gt;24</td>
<td>&gt;24</td>
<td>&gt;24</td>
<td>&gt;24</td>
<td>&gt;24</td>
<td>&gt;24</td>
</tr>
<tr>
<td>Density</td>
<td>lb/ft³ (kg/m³)</td>
<td>1.00 (16.0)</td>
<td>1.35 (21.6)</td>
<td>1.50 (24.0)</td>
<td>2.00 (32.0)</td>
<td>2.50 (40.0)</td>
<td>3.50 (56.0)</td>
<td></td>
</tr>
</tbody>
</table>

### Applications
- Under concrete slab
- Foundation walls
- Ice rinks
- Frost walls
- Exterior above grade walls
- Agricultural buildings

The maximum continuous operating temperature for Envirosheet is 158°F (70°C). EPS exposure to ultra violet (UV) is limited to a thin layer causing slight discoloration and surface dusting. The material underneath remains unaffected maintaining its properties. Prolonged exposure may cause minimal reduction in thickness. To avoid membrane adhesion issues, apply membrane right after board installation or remove the UV affected material by brushing/rasping the surface to expose unaffected EPS (avoid hydrocarbons and petroleum based products).

### Warranty
Amvic supports building owners, designers and contractors by offering a 20-year, limited thermal warranty on Envirosheet product line. This warranty is available to the building owner at the time the building is completed and is transferable to any subsequent owner during the 20-year period.

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1. EN25 in the US
2. For thicknesses up to 4”
3. For thicknesses up to 100mm