SecureTherm® Composite Roof Insulation is a high performance, light weight and water resistant Foam-Control® expanded polystyrene (EPS) roof insulation that is factory laminated to a durable fiberglass facer to meet UL Class A requirements. ACH Foam’s SecureTherm® is the preferred roofing solution among architects and contractors for low-sloped applications employing all mechanically fastened or ballasted singly ply, modified bitumen and built-up roof systems.

SecureTherm® Composite Roof Insulation offers energy efficiency, durability and saves installation labor by eliminating the need for a cover board in many membrane applications. ACH Foam Technologies has a 35 year history of proven thermal performance in the roofing industry. SecureTherm® has a stable R-value and is available with a 50-year thermal warranty.

ACH Foam Technologies’ SecureTherm® Composite Roof Insulation is available in a variety of thicknesses to meet virtually any R-value. Environmentally friendly EPS contains no ozone depleting agents, is available with recycled content and is used in LEED certified projects.

**Benefits**

- **Energy Efficient**
  - 35 Year History of Consistent and Proven Performance.
  - 50-Year Thermal Warranty.
- **Lower Cost per R-Value**
  - Available in a variety of thicknesses to meet virtually any R-Value.
- **Labor Savings**
  - Saves installation time by eliminating the need for a cover board.
- **Durable & Versatile**
  - Easy to Handle & Install.
- **Moisture Resistant**
  - Low Rate of Permeability.
- **Used in Class A Assemblies**
- **Environmentally Friendly**
  - Contains no ozone depleting agents and is available with recycled content.
- **UL Listed**
  - Meets & Exceeds ASTM C578

**System Compatibility**

Membranes
- Single Ply (TPO, EPDM, PVC, CSPE)
- Modified Bitumen
- Built-Up Systems

Attachment Method
- Ballasted
- Mechanically Fastened

*Consult membrane manufacturer for system requirements. SecureTherm™ is not intended to be used in a fully adhered system.

**Physical Properties**

Physical Properties provided for Foam-Control® Type VIII EPS. 50-year R-Value warranty available upon request. Other sizes and densities available to suit project requirements. Reference ACH Foam Technologies’ Roofing Tech Data for more information.

<table>
<thead>
<tr>
<th>R-Value</th>
<th>R-6</th>
<th>R-8.5</th>
<th>R-13</th>
<th>R-17</th>
<th>R-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>1 1/2”</td>
<td>2”</td>
<td>3”</td>
<td>4”</td>
<td>5 1/2”</td>
</tr>
<tr>
<td>Compressive Strength¹ (psi, 10% compression)</td>
<td>13.0</td>
<td>13.0</td>
<td>13.0</td>
<td>13.0</td>
<td>13.0</td>
</tr>
<tr>
<td>Water Vapor Permeance¹, min.</td>
<td>2.3</td>
<td>1.8</td>
<td>1.2</td>
<td>0.9</td>
<td>0.6</td>
</tr>
<tr>
<td>Water Absorption¹, (volume %), max.</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>

¹See ASTM C578 Standard for test methods and complete information.

Caution: EPS contains a flame retardant; however, it should be considered combustible and not exposed to sources of ignition. Foam-Control® EPS has a flame spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E84 / UL 723 for densities from 0.70 - 2.0 lb/ft³. Refer to UL certificate for complete information.

**Quality Assurance**

Thorough evaluations conducted by ICC-ES, combined with ACH’s strict manufacturing specifications and quality control, assures our customers receive a consistently superior product. SecureTherm® meets and exceeds requirements of ASTM C578. ACH Foam Technologies provides quality UL labeled EPS for roofing applications.