FlintBoard™ Polyisocyanurate Roof Insulation Products

FlintBoard™ roof insulation products from CertainTeed are proven energy-efficient systems. Available in a variety of thicknesses, FlintBoard features long-term thermal resistance (LTTR) values from 6.0 to 25.0. FlintBoard reduces energy demands and is compatible with most roofing membranes.

Performance
All FlintBoard products are manufactured with closed-cell polyisocyanurate, which ensures:
• Dimensional stability for years of performance
• High R-values per inch for maximum energy efficiency
• Superior ratings in fire safety performance
• Less weight for easy handling and installation

Adaptability
CertainTeed polyisocyanurate roof insulation systems are engineered for use with:
• Built-up roofing systems
• Modified bitumen roofing systems
• Single ply systems
• Shingles
• Tile
• Slate

Versatility
There’s a FlintBoard insulation product suitable for the following uses:
• Insulation for cold storage and metal building applications
• Positive drainage tapered systems
• Composite polyisocyanurate systems (available with perlite high density wood fiberboard or DensDeck®), which eliminate the need for cover boards and reduce installation labor

CertainTeed FlintBoard polyisocyanurate roof insulation products are environmentally sensitive and available for virtually every type of construction system.

Highest R-value per inch of any insulation
EPA compliant -
Zero ODP expansion agents used
Post-industrial recycled content
Complies with ASHRAE standards
Qualifies for LEED certification credits
**FlintBoard ISO (and ISO-T)**  
Polyisocyanurate roof insulation  
**Applications:**  
- BUR, Modified Bitumen, Single Ply Systems  
**Features:**  
- 4’ x 4’ and 4’ x 8’ panels  
- Thicknesses of 1.0” – 4.0”  
- UL Class A, FM Class 1  
- Standard black-faced facer  
- 20 and 25 psi  
- Available in tapered panels

**FlintBoard ISO CV**  
Cross ventilating polyisocyanurate roof insulation  
**Applications:**  
- Non-insulated cathedral or vaulted ceilings, exposed ceiling designs under steel, wood or tongue and groove decks, log homes, post and beam construction  
- Ideal for steep slope applications  
3:12 or greater  
**Features:**  
- Bottom layer polyisocyanurate  
- Middle layer of wood spacers  
- Top layer OSB or plywood  
- Thicknesses of 2.5” – 6.0”  
- Standard 1” airspace, 1.5” and 2” also available  
- Available with top substrates of 7/16”, 5/8” OSB, 5/8”, 3/4” plywood  
- 20 and 25 psi  
- Not a structural panel

**FlintBoard ISO NB**  
Polyisocyanurate bonded to OSB  
(Oriented Strand Board)  
**Applications:**  
- Suitable for new construction or re-roofing where a durable insulating panel is needed under tile, slate or a heavyweight shingle  
- Single Ply Systems  
**Features:**  
- 4’ x 4’ and 4’ x 8’ panels  
- Thicknesses of 1.0” – 5.0”  
- UL Class A, FM Class 1  
- Standard black-faced facer  
- 20 and 25 psi  
- Available in tapered panels

**FlintBoard ISO DD**  
Polyisocyanurate bonded to a coated glass facer for direct to wood deck applications  
**Applications:**  
- BUR, Modified Bitumen, Single Ply Systems  
**Features:**  
- 4’ x 4’ and 4’ x 8’ panels  
- Thicknesses of 1.0” – 4.0”  
- UL Class A, FM Class 1  
- Fiber-reinforced felt facer on bottom side

**FlintBoard ISO Cold (and ISO-T Cold)**  
Polyisocyanurate bonded to a coated glass facer  
**Applications:**  
- Designed for Cold Applied and Spray Applied applications  
- BUR, Modified Bitumen, Self-adhered and Single Ply Systems  
**Features:**  
- 4’ x 4’ and 4’ x 8’ panels  
- Thicknesses of 1.0” – 4.0”  
- UL Class A, FM Class 1  
- Mold resistant polymer coated facer – moisture resistant  
- 20 and 25 psi  
- Available in tapered panels

**Typical Physical Property Data Chart — Polyisocyanurate Foam Core Only**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>ASTM D1621 – ASTM 1289-06</td>
<td>20 psi* minimum – (138kPa, grade 2)</td>
</tr>
<tr>
<td>Dimensional stability</td>
<td>ASTM D2126</td>
<td>&lt; 2% linear change (7 days)</td>
</tr>
<tr>
<td>Moisture vapor transmission</td>
<td>ASTM E96</td>
<td>&lt; 1 perm (85.0ng/[Pa·s·m²])</td>
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<tr>
<td>Water absorption</td>
<td>ASTM C209</td>
<td>&lt; 1% volume</td>
</tr>
<tr>
<td>Flame spread (foam core)</td>
<td>ASTM E84</td>
<td>40-60</td>
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<tr>
<td>Service temperature</td>
<td>—</td>
<td>-40° to 200°F</td>
</tr>
</tbody>
</table>

*Also available in 25 psi minimum, grade 3