Tapered H-Shield CG

PRODUCT DESCRIPTION
Tapered H-Shield CG is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a premium performance coated glass facer on both sides (CGF). For best results, request assistance from Hunter Panels Tapered Design Team.

PREMIUM PERFORMANCE ATTRIBUTES
- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, HFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- Provides improved dimensional stability, fire performance and resistance to mold growth. Passed (10) Resistance to Mold test ASTM D 3273
- Has achieved FM 4450 and UL 1256 for direct application to steel deck constructions
- Provides wind uplift ratings in fully adhered systems from FM 1-60 to FM 1-270
- Achieves a Class A combustible deck assembly rating without the use of a fire rated slip sheet or the presence of a gypsum cover board when applied at a thickness of 3" or greater in a single layer or in combination of multiple layers (ie: two layers of 1.5")
- Achieves a Class B combustible deck assembly rating without the use of a fire rated slip sheet or gypsum cover board when applied at a thickness of 1.9" or greater in a single layer

PANEL CHARACTERISTICS
- Available in two grades of compressive strengths per ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)
- Available slopes are ¼" (2mm), ⅜" (3mm), ⅝" (5mm), ¼" (6mm), ⅜" (10mm) and ⅝" (13mm) per foot
- Available in 4’x4’ (1220mm x 1220mm) and 4’x8’ (1220mm x 2440mm) panels in thicknesses of 0.5" (13mm) to 4.5" (114mm) maximum in a single layer

ROOFING APPLICATIONS
- Specified for Single-Ply membranes (Ballasted, Mechanically Attached and Fully Adhered), BUR, Modified Bitumen, Coal-Tar

Codes and Compliances
- ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- California Code of Regulations, Title 24, Insulation Quality Standard License #T1-1420
- Miami Dade County Product Control Approved

Underwriters Laboratories Inc Classifications
- UL 1256
- Insulated Steel Deck Construction Assemblies – No. 120, 123, 292
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies

UL Classified for use in Canada
- Refer to UL Directory of Products Certified for Canada for more details
- CAN/ULC-S704 Type 2, Class 3 (20 psi) or Type 3, Class 3 (25 psi)

Factory Mutual Approvals
- FM 4450, FM 4470
- Approved for Class 1 insulated steel, concrete, and gypsum roof deck constructions for 1-60 to 1-270. Refer to FM Approval’s RoofNav for details on specific systems

LEED Potential Credits for Polyiso Use
Energy and Atmosphere
- Optimize Energy Performance

Materials & Resources
- Building Life-Cycle Impact Reduction
- Environmental Product Declarations
- Materials Reuse
- Recycled Content
- Construction and Demolition Waste Management

WWW.HUNTERPANELS.COM • 888.746.1114
**INSTALLATION**

**Single-Ply Systems**

**Ballasted Single-Ply**
Tapered H-Shield CG panels are loosely laid on the roof deck. Butt the edges of the insulation panels and stagger the joints. Install the roof covering according to the manufacturer’s specifications.

**Mechanically Attached Single-Ply Systems**
Tapered H-Shield CG must be secured to the roof deck. Butt the edges of the insulation panels and stagger the joints. Install the roof covering according to the manufacturer’s specification.

**Fully Adhered Single-Ply**
Each Tapered H-Shield CG panel must be secured to the roof deck. Maximum 4'x4' (1220mm x 1220mm) panels of Tapered H-Shield CG may be adhered to a prepared concrete deck or subsequent layers of insulation with a full mopping of hot steep asphalt, insulation adhesive or cold applied mastic. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer’s specifications.

**Built Up, Coal Tar And Modified Bitumen Systems**
**APP, SBS**
Each Tapered H-Shield CG panel must be secured to the roof deck. Maximum 4'x4' (1220mm x 1220mm) panels of Tapered H-Shield CG may be adhered to a prepared concrete deck or subsequent layers of insulation with a full mopping of hot steep asphalt, insulation adhesive or cold applied mastic. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer’s specifications.

**WARNINGS AND LIMITATIONS**

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof covering material. Hunter Panels will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. For more information refer to the Storage and Handling Technical Bulletin at www.hunterpanels.com, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation at www.polyiso.org.

**TYPICAL PHYSICAL PROPERTY DATA CHART PER ASTM C 1289 - POLYISO 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 D 1621</td>
<td>20 psi* (138kPa, Grade 2)</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D 2126</td>
<td>2% linear change (7 days)</td>
</tr>
<tr>
<td>Moisture Vapor Transmission</td>
<td>ASTM E 96</td>
<td>&lt; 1 perm (57.5ng/(Pa<em>s</em>m²))</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C 209</td>
<td>&lt; 1% volume</td>
</tr>
<tr>
<td>Flame Spread**</td>
<td>ASTM E 84</td>
<td>&lt; 75</td>
</tr>
<tr>
<td>Smoke Developed**</td>
<td>ASTM E 84</td>
<td>&lt; 450</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-</td>
<td>-100° to 250° F (-73°C to 122°C)</td>
</tr>
</tbody>
</table>

*Also available in 25 psi, Grade 3

**FASTENING REQUIREMENTS***

<table>
<thead>
<tr>
<th>FM RATING</th>
<th>MINIMUM THICKNESS</th>
<th># OF FASTENERS PER 4X8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FIELD PERIMETER CORNER</td>
</tr>
<tr>
<td>1-60</td>
<td>2.0</td>
<td>8 20 20</td>
</tr>
<tr>
<td>1-75</td>
<td>2.0</td>
<td>8 20 32</td>
</tr>
<tr>
<td>1-90</td>
<td>2.0</td>
<td>8 20 32</td>
</tr>
<tr>
<td>1-105</td>
<td>2.0</td>
<td>12 24 32</td>
</tr>
<tr>
<td>1-150</td>
<td>2.0</td>
<td>20 32</td>
</tr>
<tr>
<td>1-270</td>
<td>2.0</td>
<td>32</td>
</tr>
</tbody>
</table>

* Contact your membrane manufacturer for their specific fastening requirements