H-Shield

Description
H-Shield is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to fiber reinforced facers on each side (GRF).

Premium Performance Attributes
- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, HFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- Approved for direct application to steel decks
- Approved under all major roof covering systems – BUR, Modified and Single-Ply

Applications
- Constructions requiring FM Class 1 and UL Class A ratings
- Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)
- Standing Seam Metal Roof Systems
- Modified Bitumen Systems
- Built-Up Roofing: Asphalt and Coal Tar

Panel Characteristics
- Available in two grades of compressive strengths per ASTM C1289 Type II, Class 1 Grade 2 (20 psi) or Grade 3 (25 psi)
- Available in 4’x4’ (1220mm x 1220mm) and 4’x8’ (1220mm x 2440mm) panels in thicknesses of 1” (25mm) to 4.5” (114mm)
- Also available as special cut products - straight cut and flute fill. For more information please see Hunter Panels product data sheets for these products.

Potential LEED Credits for Polyiso Use

Energy and Atmosphere
- Optimize Energy Performance

Materials & Resources
- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality
- Thermal Comfort

H-Shield Thermal Values

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<th>THICKNESS</th>
<th>LTTR</th>
<th>FLUTE SPANABILITY</th>
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<tr>
<td>(INCHES)</td>
<td>(MM)</td>
<td>(INCHES)</td>
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<tr>
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<tr>
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*Long Term Thermal Resistance Values are based on ASTM C 1289.

Codes and Compliances
- ASTM C 1289 Type II, Class 1 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 #TI-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
- CCMC 13-460-L
- UL Certified for Canada, CAN/ULC-S126, CAN/ULC-S101, CAN/ULC- S107
- 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 deck constructions for 1-60 to 1-270. Refer to FM Approval’s RoofNav for details on specific systems

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Single-Ply Systems

Ballasted Single-Ply Systems
Each H-Shield panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer’s specifications.

Mechanically Attached Single-Ply Systems
Each H-Shield panel must be secured to the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer’s specifications.

Fully Adhered Single-Ply
Each H-Shield panel must be secured to the roof deck. Maximum 4'x4' (1220mm x 1220mm) panels of H-Shield 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 H-Shield panel must be secured to the roof deck. Maximum 4'x4' (1220mm x 1220mm) panels of H-Shield 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.

To achieve optimal thermal performance, Hunter Panels recommends installation of a multi-layered system with staggered joints.