H-SHIELD CG
Flat Premium Performance Faced Polyisocyanurate Insulation For
New and Retrofit Low-slope and Steel Deck Roofing Applications

H-Shield CG
Manufactured by Hunter Panels

PRODUCT DESCRIPTION
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).

FEATURES AND BENEFITS
- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, 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
- Achieves a UL Class A combustible deck assembly rating without the use of a fire rated slip sheet or gypsum cover board when applied at a thickness of 1” or greater. Insulation joints must be staggered a minimum of 12” from the combustible deck joints. Maximum roof slope = ½:12

PANEL CHARACTERISTICS
- Available in 4’x4’ (1220mm x 1220mm) and 4’x8’ (1220mm x 2440mm) panels in thicknesses of 1” (25mm) to 4.5” (114mm)
- ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)

APPLICATIONS
- Constructions requiring UL Class A ratings

LEED POTENTIAL CREDITS FOR POLYISO USE

Energy and Atmosphere
- Optimize Energy Performance

Materials & Resources
- Building Life-Cycle Impact Reduction
- Environmental Product Declarations
- Materials Reuse
- 9% Pre-consumer Recycled Content
- Construction and Demolition Waste Management
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Indoor Environmental Quality
- Thermal Comfort

H-SHIELD CG THERMAL VALUES

<table>
<thead>
<tr>
<th>THICKNESS (INCHES)</th>
<th>LTTR (MM)</th>
<th>R VALUE*</th>
<th>FLUTE SPANABILITY</th>
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<td>1.00</td>
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*Long Term Thermal Resistance Values are based on ASTM C 1289.

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 #TI-1420
- Miami Dade County Product Control Approved

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS
- UL Class A at 1” thickness
- 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 13460-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, concrete, and gypsum roof deck constructions for 1-60 to 1-270. Refer to FM Approval’s RoofNav for details on specific systems
THE USE OF METAL ROOFING UNDERLAYMENTS

PAC-CLAD strongly suggests the use of Carlisle’s WIP 300HT on all warranted projects.

VAPOR RETARDERS

In building construction, vapor retarders are used to inhibit or block the passage of moisture into roofing assemblies. Vapor barriers also serve as air barriers to limit the movement of moisture-laden air from the interior to the exterior. This is especially important during the construction phase where excessive moisture drive is present. To determine whether a vapor retarder is necessary it is recommended that calculations on the building’s interior relative humidity, interior temperature conditions and outside temperature fluctuations during the various seasons be performed prior to the completion of the design. Excessive moisture migration can cause unwanted condensation that will potentially damage the system or infiltrate the occupied space. PAC-CLAD strongly suggests the use of a vapor retarder with a perm value of 0.5 or less on all projects except in extreme cooling conditions. Consult a licensed design professional, architect or engineer to establish whether or not a vapor retarder is necessary and to specify its type and location within the assembly. This criteria varies with geographical location and is therefore specific to each project.

FASTENING GUIDELINES

PAC-CLAD requires the use of a SIP SD Panel Fastener for steel deck applications, the SIP WD for plywood deck applications, and SIP HD for heavy-duty steel decks. Additional information on fasteners and fastening patterns are available on pac-clad.com.

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. PAC-CLAD 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 pac-clad.com, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation at www.polyiso.org.