

H-SHIELD-CG

FLAT POLYISO BONDED TO COATED GLASS FACER

NE[®]XGEN
C H E M I S T R Y

PRODUCT DESCRIPTION

H-Shield-CG is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core laminated to coated glass fiber mat facers. (Gray)

FEATURES AND BENEFITS

- Manufactured with NexGen Chemistry™ - Zero ODP, CFC Free, EPA Compliant
- Premium facer improves water resistance and dimensional stability.
- Enhanced performance with cold applied BUR, Modified Bitumen and Fully Adhered Single Ply systems.
- Meets FM 4450 and UL 1256 for direct application to metal deck construction.

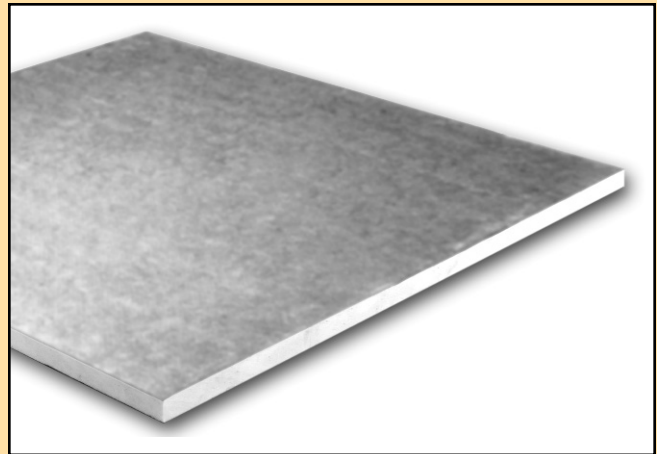
PANEL CHARACTERISTICS

- Available in 4'x4' (1220mm x 1220mm) and 4'x8' (1220mm x 2440mm) panels in thickness of 1" (25mm) to 4.0" (102mm)
- ASTM-C 1289-06, Type II, Class 2, Grade 2, (20 psi) or Grade 3 (25 psi).
- UL Classified for Class A Assemblies.
- FM Class 1 approved foam plastic

H-SHIELD-CG THERMAL VALUES

| THICKNESS (INCHES) | (MM) | LTR R VALUE* | FLUTE SPANABILITY |
|-----------------------|------|-----------------|----------------------|
| 1.00 | 25 | 6.00 | 2 5/8" |
| 1.50 | 38 | 9.00 | 4 3/8" |
| 1.60 | 41 | 9.60 | 4 3/8" |
| 1.70 | 43 | 10.30 | 4 3/8" |
| 2.00 | 51 | 12.10 | 4 3/8" |
| 2.50 | 64 | 15.30 | 4 3/8" |
| 2.70 | 69 | 16.60 | 4 3/8" |
| 3.00 | 76 | 18.50 | 4 3/8" |
| 3.30 | 84 | 20.40 | 4 3/8" |
| 3.50 | 89 | 21.70 | 4 3/8" |
| 3.60 | 91 | 22.40 | 4 3/8" |
| 4.00 | 102 | 25.00 | 4 3/8" |

*Long Term Thermal Resistance Values are based on ASTM C1289-06 and CAN/ULC S770 which provides for a 15-year time weighted average. All PIMA members have adopted this advanced standard for R-value measurement as of 1/1/03.



INSTALLATION

BUILT UP, COAL TAR AND MODIFIED BITUMEN SYSTEMS

Each H-Shield-CG panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). A Hunter approved insulation adhesive can also be used. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

SINGLE PLY SYSTEMS

BALLASTED SINGLE PLY

Each H-Shield-CG 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-CG panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). 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-CG panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). H-Shield-CG may be adhered to a prepared concrete deck with a full mopping of hot steep asphalt (4'x4' panels required) or a Hunter approved insulation adhesive (4'x4' panel recommended). Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications. Approved adhesives include, but are not limited to, the following:

- FAS 100
- Insta Stik
- Olybond
- Millennium

See FM listing for all other adhesive approvals.

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H-SHIELD-CG CODES AND COMPLIANCES

FEDERAL SPECIFICATIONS

- ASTM C1289-06 Type II, Class 2, Grade 2 (20 psi), Grade 3, (25 psi).
- National Building Code (1998) Section 2603 Building Officials and Code Administration International, Inc.

NOTE: Please be aware the Federal Specification HH-I-1972/GEN has been replaced

UNDERWRITERS LABORATORIES, INC.

- Insulated metal deck assemblies - UL 1256 (nos. 120, 123)
- Component of Class A Roof Systems: Built-Up, Modified Bitumen and Single-Ply (Ballasted, Mechanically Attached & Fully Adhered) (UL 790)
- Hourly Rated P series roof assemblies (UL 263) P 225, 230, 232, 259, 508, 510, 514, 519, 701, 713, 717, 718, 719, 720, 722, 723, 724, 727, 728, 729, 730, 732, 734, 735, 739, 801, 814, 815, 818, 819, 823, 824, 826, 827, 828, 832.
- H-Shield classified by ULC
- R18846

FACTORY MUTUAL RESEARCH

- FM-4450 (Foam Core Only)
- FM approved for 1-60 and 1-90 assemblies with Built-Up, Modified Bitumen, Single-Ply (Mechanically Attached, Fully Adhered) roof coverings subject to conditions of approval described in the current Factory Mutual Approval Guide and supplements.

**NEW FLORIDA BUILDING CODE: FL 5968 (OLD #1296)
MIAMI-DADE COUNTY, FLORIDA NOA NO: 04-1018.01, EXPIRATION: 01-14-10**

TYPICAL PHYSICAL PROPERTY DATA CHART POLYISO FOAM CORE ONLY

| PROPERTY | TEST METHOD | VALUE |
|-----------------------------|-----------------------------|---|
| Compressive Strength | ASTM D 1621 ASTM 1289-06 | 20 psi* minimum (138kPa, Grade 2) |
| Dimensional Stability | ASTM D 2126 | 2% linear change (7 days) |
| Moisture Vapor Transmission | ASTM E 96 | < 1 perm ((57.5ng/(Pa*s*m ²))) |
| Water Absorption | ASTM C 209 | < 1% volume |
| Flame Spread (foam core) | ASTM E 84 | < 50 |
| Smoke Developed | ASTM E 84 | <135 |
| Service Temperature | | -100° to 250° F (-73°C to 122°C) |

*Also available in 25 PSI Minimum, Grade 3

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. Call Hunter Panels for more specific details, or refer to PIMA Technical Bulletin No. 109: *Storage & Handling Recommendations for Polyiso Roof Insulation.*

OTHER PRODUCTS BY HUNTER:

- **H-Shield** FLAT POLYISO
- **H-Shield-NB** POLYISO BONDED TO ORIENTED STRAND BOARD
- **H-Shield-WF** POLYISO BONDED TO WOOD FIBERBOARD
- **H-Shield-F** POLYISO BONDED TO FOIL
- **H-Shield-AGF** POLYISO BONDED TO AGF FACER
- **H-Shield-DD** POLYISO BONDED TO DENSDECK
- **H-Shield-DDP** POLYISO BONDED TO PRIMED DENSDECK
- **H-Shield-DWD** POLYISO BONDED TO COATED GLASS FACER FOR DIRECT TO WOOD DECK APPLICATIONS
- **Tapered H-Shield** TAPERED POLYISO
- **Tapered H-Shield-WF** TAPERED POLYISO BONDED TO WOOD FIBERBOARD
- **Tapered H-Shield-CG** TAPERED POLYISO BONDED TO COATED GLASS FACER
- **Cool-Vent** VENTILATED NAILBASE INSULATION PANEL
- **Cool-Vent II** VENTILATED NAILBASE INSULATION PANEL

H U N T E R

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MANUFACTURING FACILITIES:

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