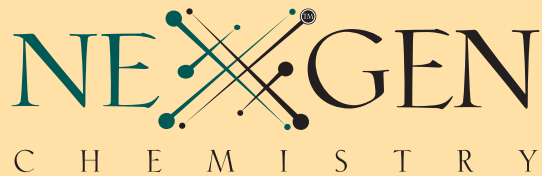


H-SHIELD-DWD

POLYISO BONDED TO A HEAVY SLURRY COATED GLASS FACER FOR DIRECT TO WOOD DECK APPLICATIONS



PRODUCT DESCRIPTION

H-Shield-DWD is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core laminated to a heavy (slurry) coated glass facer.

FEATURES AND BENEFITS

- Manufactured with NexGen Chemistry™ - Zero ODP, CFC Free
- Premium facer improves fire resistance, moisture resistance, and dimensional stability
- Enhanced performance with Cold Applied BUR, Modified Bitumen and Fully Adhered Single Ply systems.
- **H-Shield DWD at a thickness of 3" or greater in either a single layer or in a combination of multiple layers is approved for a Class A Assembly without the use of a fire rated slip sheet or gypsum cover board. (contact Hunter Panels for a list of which multiple layers are approved)**
- **H-Shield DWD at thickness of 1.9" or greater is a single layer is approved for a Class B assembly without the use of a fire rated slip sheet or gypsum cover board.**

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, B and C assemblies
- Also available in tapered panels



H-SHIELD-DWD THERMAL VALUES

THICKNESS (INCHES)	THICKNESS (MM)	LTTR 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"
1.90	48	11.50	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"
3.10	79	19.10	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-DWD 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. Install the roof covering in cold adhesive only according to the manufacturer's specifications.

SINGLE PLY SYSTEMS

BALLASTED SINGLE PLY

Each H-Shield-DWD 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-DWD 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-DWD 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.

HUNTER Energy Smart Polyiso

H-SHIELD-DWD 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 ULC0
- R18846

FACTORY MUTUAL RESEARCH

- Foam Core Only

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-CG** POLYISO BONDED TO COATED GLASS FACER
- **H-Shield-AGF** POLYISO BONDED TO AGF FACER
- **H-Shield-DD** POLYISO BONDED TO DENSDECK
- **H-Shield-DDP** POLYISO BONDED TO PRIMED DENSDECK
- **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

Energy Smart Polyiso

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MANUFACTURING FACILITIES:

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TOOELE, UT
SMITHFIELD, PA



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