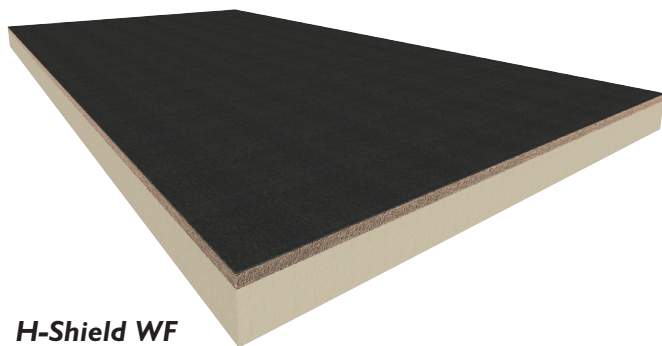


# HUNTER PANELS H-SHIELD WF

Flat Polyisocyanurate Insulation Manufactured On-Line to Wood Fiberboard for Low Slope Roofing Applications



**H-Shield WF**

## Description

H-Shield WF is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a fiber reinforced facer on one side and .5" (13mm) high density wood fiberboard on the other.

## Premium Performance Attributes

- Manufactured with NexGen Chemistry: Contains no CFCs, HFCs, HCFCs, is Zero ODP, EPA Compliant, and has virtually no GWP



## Applications

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

## Panel Characteristics

- Available in two compressive strengths per ASTM C1289 Type IV, Grade 2 (20 psi) or Grade 3 (25 psi)
- Available in 47.5"x47.5" (1207mm x 1207mm) and 47.5"x95.5" (1207mm x 2426mm) panels in thicknesses of 1.5" (38mm) to 3.5" (89.9mm)

H-SHIELD WF PACKAGING AND WEIGHTS							
SIZE WF	FOAM	PCS	LBS/4X8 PC	LBS/4X8 PL	LBS/4X4 PC	LBS/4X4 PL	LBS/SF
1.5	1.0	32	27.70	886.4	13.85	443.2	0.865
2.0	1.5	24	30.30	727.2	15.15	363.6	0.946
2.5	2.0	19	32.90	625.1	16.45	312.6	1.028
3.0	2.5	16	35.50	568.0	17.75	284.0	1.109
3.5	3.0	13	38.10	495.3	19.05	247.7	1.190

## H-SHIELD WF THERMAL VALUES

THICKNESS		LTTR R-VALUE*	FLUTE SPANABILITY
(INCHES)	(MM)		
2.00	51	10.0	4 3/8"
2.50	64	12.8	4 3/8"
3.00	76	15.8	4 3/8"
3.50	89	18.8	4 3/8"

\*Long Term Thermal Resistance Values are based on ASTM C 1289.

## Codes and Compliances

- ASTM C 1289 Type IV, 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
- 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

## Factory Mutual Approvals

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions. Refer to FM Approval's RoofNav for details on specific systems

## Potential LEED Credits for Polyiso Use

### Energy and Atmosphere

- Optimize Energy Performance

### Materials & Resources

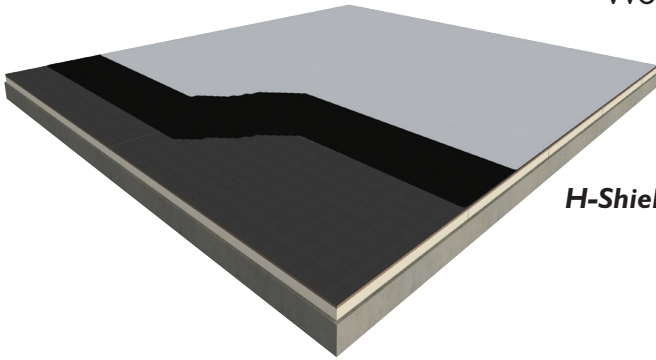
- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- 9% Recycled Content
- Construction and Demolition Waste Management

### Indoor Environmental Quality

- Thermal Comfort

# HUNTER PANELS H-SHIELD WF

Flat Polyisocyanurate Insulation Manufactured On-Line to Wood Fiberboard for Low Slope Roofing Applications



*H-Shield WF on a Concrete Deck with BUR*

## INSTALLATION

### Single Ply Systems

#### Ballasted Single-Ply Systems

Each H-Shield WF 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 WF 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 WF panel must be secured to the roof deck. Maximum 47.5"x47.5" (1207mm x 1207mm) panels of H-Shield WF 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 WF panel must be secured to the roof deck. Maximum 47.5"x47.5" (1207mm x 1207mm) panels of H-Shield WF 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.**

### TYPICAL PHYSICAL PROPERTY DATA CHART PER ASTM C 1289 – POLYISO FOAM CORE ONLY

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM D 1621	20 psi* (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 <sup>2</sup> ))
Water Absorption	ASTM C 209	< 1% volume
Flame Spread**	ASTM E 84	< 75
Smoke Developed**	ASTM E 84	< 450
Service Temperature	-	-100° to 250° F (-73°C to 122°C)

\*Also available in 25 psi, Grade 3

\*\*Meets the requirements of the IBC code. For specific Flame Spread or Smoke Developed Ratings please contact the Hunter Panels Technical Department.

## 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](http://www.hunterpanels.com), or refer to PIMA Technical Bulletin No. 109: *Storage & Handling Recommendations for Polyiso Roof Insulation* at [www.polyiso.org](http://www.polyiso.org).



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