

H-SHIELD PREMIER

Flat Polyisocyanurate Insulation Manufactured On-Line to Heavy Duty Coated Glass Facers

H-Shield Premier

PRODUCT DESCRIPTION

H-Shield Premier is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to an extra durable heavy duty coated glass facer on each side (CGF).

PREMIUM PERFORMANCE ATTRIBUTES

- **Achieves a UL Class A combustible deck assembly rating at a 1" thickness without the use of a fire rated slip sheet or gypsum cover board**
- 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 passed (10) ASTM D 3273 Resistance to Mold test

PANEL CHARACTERISTICS

- Available in two grades of compressive strengths per ASTM C1289 Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- Available in 4'x8' (1220mm x 2440mm) panels in thickness of 1" - 4.5" (25mm - 114mm)

ROOFING APPLICATIONS

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

H-SHIELD PREMIER THERMAL VALUES

THICKNESS (INCHES)	THICKNESS (MM)	LTTTR R-VALUE*	FLUTE SPANABILITY
1.0	25	5.7	2 5/8"

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

Other thicknesses available upon request.

PACKAGING & WEIGHT (4'x8'x1")

4'x8'x1" PANELS

17 lbs per 4'x8' panel	0.531 lbs/sq ft.
48 pieces per bundle	816 lbs per bundle

Codes and Compliances

- ASTM C1289 Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26

Underwriters Laboratories Inc Classifications

- UL Class A at 1" thickness
- 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
- UL Certified for Canada, CAN/ULC-S126, CAN/ULC-S107
- CAN/ULC-S704 Type 1 Class 2

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



**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 ²))
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)
Recycled Content		9% - pre-consumer

*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, or refer to PIMA Technical Bulletin No. 109: *Storage & Handling Recommendations for Polyiso Roof Insulation* at www.polyiso.org.

INSTALLATION

Single-Ply Systems

Ballasted Single-Ply

H-Shield Premier panels are loosely laid on the roof deck. Butt the edges of the insulation panels and stagger the joints. Install the roof covering according to the manufacturer's specifications.

Mechanically Attached Single-Ply Systems

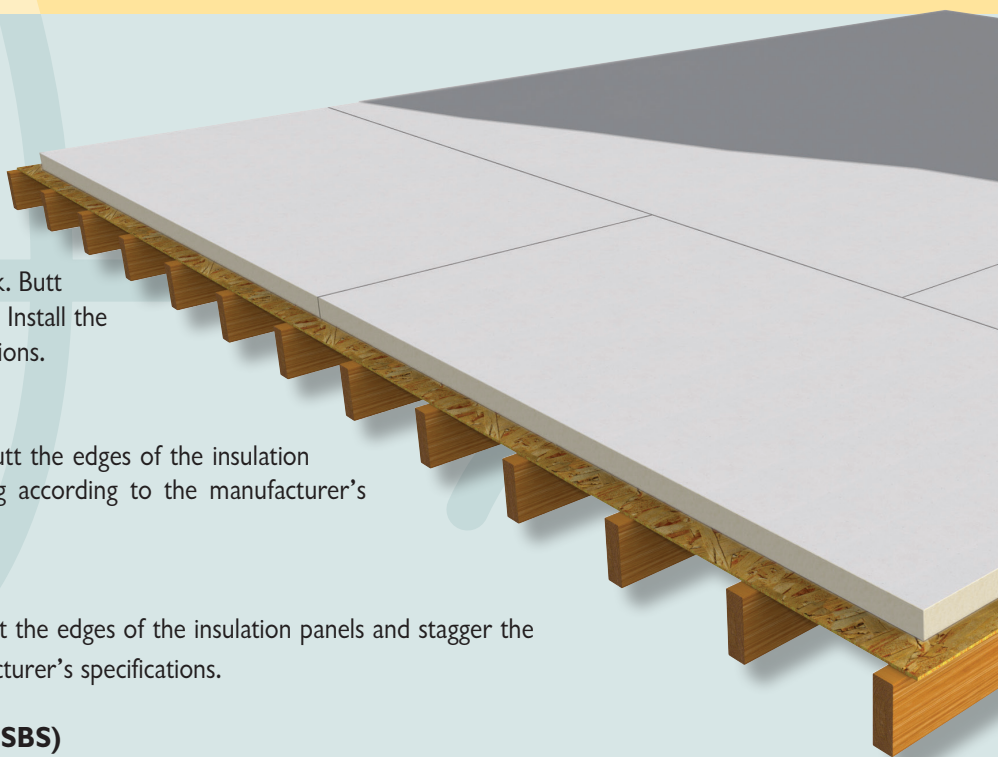
H-Shield Premier must be secured to the roof deck. Butt the edges of the insulation panels and stagger the joints. Install the roof covering according to the manufacturer's specifications.

Fully Adhered Single-Ply

H-Shield Premier may be secured to the roof deck. Butt the edges of the insulation panels and stagger the joints. Install the roof covering according to the manufacturer's specifications.

Built Up and Modified Bitumen Systems (APP, SBS)

H-Shield Premier may be secured to the roof deck. Butt the edges and stagger the joints of the insulation panels. Install the roof covering according to the manufacturer's specifications.



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