

# TAPERED H-SHIELD-WF

SLOPED POLYISO BONDED TO WOOD FIBERBOARD



## PRODUCT DESCRIPTION

Tapered H-Shield-WF is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core bonded during the manufacturing process to fiber reinforced facers on one side and 1/2" (12mm) asphalt coated high density wood fiberboard on the other side. Tapered H-Shield-WF is designed to promote positive drainage and prevent ponding water. For best results use Hunter Panels Tapered Shop Drawings.

### FEATURES AND BENEFITS

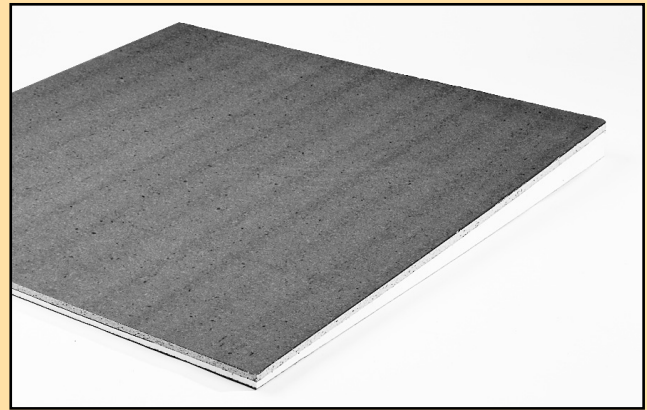
- Manufactured with NexGen Chemistry™ - Zero ODP, CFC Free, EPA Compliant.
- Approved under major roof covering systems – BUR, Coal Tar Modified and Single Ply applications.

### PANEL CHARACTERISTICS

- Available in 4'x4' (1220mm x 1220mm) panels in thickness of 1" (25mm) minimum to 4.0" (102mm) maximum in a single layer.
- Available slopes are 1/8" (3mm), 1/4" (6mm), and 1/2" (13mm) per foot
- Available in two grades of compressive strengths per ASTM C1289-06, Type IV, Grade 2 (20 psi), Grade 3 (25 psi).

### 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 Systems



## INSTALLATIONS

### BUILT UP, COAL TAR AND MODIFIED BITUMEN SYSTEMS

Each Tapered H-Shield-WF panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). Maximum 4'x4' (1220mm x 1220mm) panels of Tapered H-Shield-WF may be adhered to a prepared concrete deck with a full mopping of hot steep asphalt. Application by cold adhesion also approved (contact membrane manufacturer for approved adhesives). Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

### SINGLE PLY SYSTEMS

#### BALLASTED SINGLE PLY SYSTEMS

Each Tapered 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.

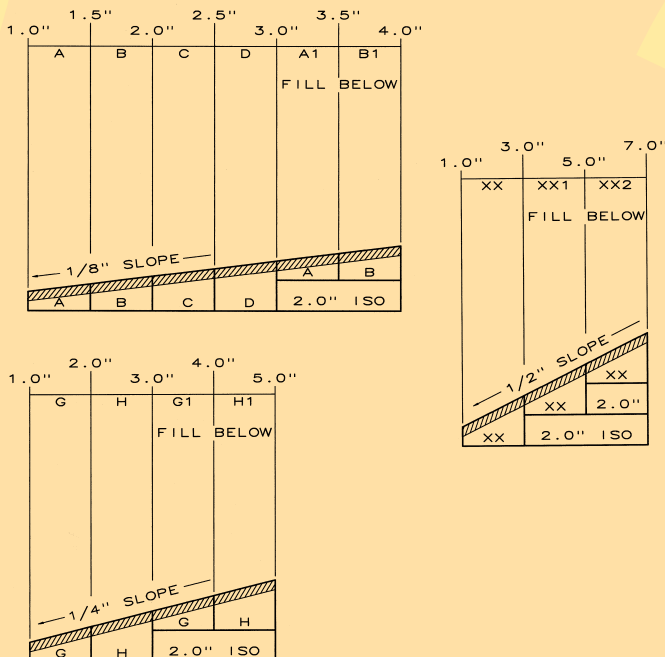
#### MECHANICALLY ATTACHED SINGLE PLY SYSTEMS

Each Tapered H-Shield-WF 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 Tapered H-Shield-WF panel must be secured to the roof deck with Factory Mutual approved fasteners and plates (appropriate to the deck type). Maximum 4'x4' (1220mm x 1220mm) panels of Tapered H-Shield-WF may be adhered to a prepared concrete deck with a full mopping of hot steep asphalt. Application by cold adhesion also approved. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

## PROFILES



HUNTER ENERGY SMART POLYISO

## TAPERED H-SHIELD-WF CODES AND COMPLIANCES

### FEDERAL SPECIFICATIONS

- ASTM C1289-06, Type IV, Grade 2 (20 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.

- Component of Class A Roof Systems (UL 790)
- Hourly Rated P series roof assemblies (UL 263 foam core only) 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.
- Insulated metal deck assemblies - UL 1256 (nos. 120, 123)
- Tapered H-Shield-WF classified by ULC
- R18846

### FACTORY MUTUAL RESEARCH

- FM 4450, FM 4470 (Foam Core Only)
- FM Class 1 approval for steel roof deck constructions, Class 1 Fire and 1-60 and 1-90 windstorm classification (FM 4450).  
*(Subject to the 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**

## 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.*



## 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 <sup>2</sup> )))
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

## 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
- **H-Shield-DWD** POLYISO BONDED TO COATED GLASS FACER FOR DIRECT TO WOOD DECK APPLICATIONS
- **Tapered H-Shield** TAPERED POLYISO
- **Tapered H-Shield-CG** TAPERED POLYISO BONDED TO COATED GLASS FACER
- **Cool-Vent** VENTILATED NAILBASE INSULATION PANEL
- **Cool-Vent II** VENTILATED NAILBASE INSULATION PANEL

# HUNTER

Energy Smart Polyiso

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### MANUFACTURING FACILITIES:

- KINGSTON, NY**
- FRANKLIN PARK, IL**
- LAKE CITY, FL**
- TERRELL, TX**
- TOOELE, UT**
- SMITHFIELD, PA**