



# TAPERED H-SHIELD CG

Sloped Premium Performance Faced Polyisocyanurate Insulation

TECHNICAL DATA SHEET

*Tapered H-Shield CG is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured online to a premium performance coated glass facer on both sides (CGF). For best results, request assistance from Hunter Panels Tapered Design Team.*

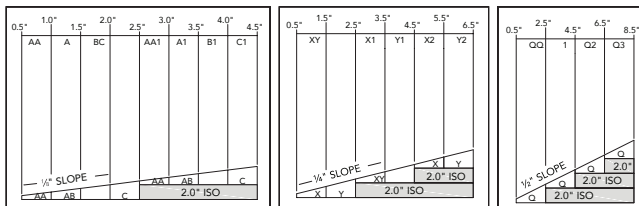
## APPLICATIONS

- 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

- Manufactured with NexGen Chemistry: Contains no CFCs, HFCs, HCFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- Available in two grades of compressive strengths per ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)
  - 1/16" and 3/16" slope available in 25 psi only
- Provides improved dimensional stability, fire performance and resistance to mold growth. Passed (10) Resistance to Mold test ASTM D 3273
- Achieves a Class A combustible deck assembly rating without the use of a fire rated slip sheet or the presence of a gypsum cover board when applied at a thickness of 3" or greater in a single layer or in combination of multiple layers (ie: two layers of 1.5")
- Available slopes are 1/16" (2mm), 1/8" (3mm), 3/16" (5mm), 1/4" (6mm), 3/8" (10mm) and 1/2" (13mm) per foot
- Available in 4' x 4' (1220mm x 1220mm) and 4' x 8' (1220mm x 2440mm) panels in thicknesses of 0.5" (13mm) to 4.5" (114mm) maximum in a single layer
- Available as Pre-Cut and Pre-Assembled hips, valleys and sumps.

## Profiles



## POTENTIAL LEED CREDITS FOR POLYISO USE

### Energy and Atmosphere

- Optimize Energy Performance

### Materials & Resources

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

### Indoor Environmental Quality

- Thermal Comfort

## CODES AND COMPLIANCES

- ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- Miami Dade County Product Control Approved
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420

## UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

- UL 1256
- Insulated Steel Deck Construction Assemblies – No. 120, 123, 292
- 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
- CAN/ULC-S704 Type 2, Class 3 (20 psi) or Type 3, Class 3 (25 psi)
- CCMC 13460-L
- UL Certified for Canada, CAN/ULC-S126, CAN/ULC-S101, CAN/ULC-S107

## FACTORY MUTUAL APPROVALS

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions for 1-60 to 1-270. Refer to FM Approval's RoofNav for details on specific systems

## TYPICAL PHYSICAL PROPERTY DATA

Polyiso Foam Core Only

Physical 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. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site, or for improper storage and handling.

## INSTALLATION - SINGLE-PLY SYSTEMS

### Ballasted Single-Ply

Tapered H-Shield CG 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

Tapered H-Shield CG 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 specification.

### Fully Adhered Single-Ply

Each Tapered H-Shield CG panel must be secured to the roof deck. Maximum 4' x 4' (1220mm x 1220mm) panels of Tapered H-Shield CG 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 Tapered H-Shield CG panel must be secured to the roof deck. Maximum 4' x 4' (1220mm x 1220mm) panels of Tapered H-Shield CG may be adhered to a prepared concrete deck or subsequent layers of insulation with a insulation adhesive or cold applied mastic. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

*Review manufacturer's specifications and details for complete installation information.*



Energy Smart Polyiso

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