

Product Description:

H-Shield HD is a closed-cell polyisocyanurate foam core integrally bonded to a premium inorganic coated glass facers with white on one side and black on the other side. Available in 0.5" thick 4' x 4' (1220 mm x 1220 mm) and 0.5" thick 4' x 8' (1220 mm x 2440 mm) panels.

Packaging:

H-Shield® HD is shrink-wrapped, 45 pieces per bundle

Features:

- Coated Glass Facer, one side white, one side black to allow installer to choose which side to install upwards
- High compressive strength (up to 109 psi max)
- Lightweight, easy to handle and cut
- Manufactured with NexGen Chemistry: Contains no CFC, HFC, HCFC, foam blowing technology
- Zero Ozone Depletion Potential (ODP)
- Virtually no Global Warming Potential (GWP)*
- Contains approximately 9.0% of recycled materials by weight
- Covered component under the IB Total Systems Warranty
- Can be used for mechanically attached, induction attached, fully adhered, or ballasted roof assemblies

Application:

H-Shield HD ½" High-Density Polyisocyanurate Cover Board can be installed over approved substrates. Refer to IB Specifications and Construction Details for additional installation instructions.

Approvals:

- ASTM C1289, Type II, Class 4, Grade 1
- FM Standard 4450/4470 Approved
- FM 4473 rated SH-1 for Severe Hail
- UL Standard 790 (ASTM E108) Class A Roofing Systems Classification
- State of Florida Product Approval No FL 5968



Thickness	'Avg. LTTR	Weight lb/sf	4x8 PCS	Recycled Content	
				Post	Pre
0.5"	2.5	.343	45	-	9.0%

*LTTR (long term thermal resistance) values were determined in accordance with ASTM C518. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program.

Typical Physical Properties*		
Property	Test Method	Result
Dimensional Stability	ASTM D2126	< 0.5%
Compressive Strength	ASTM D1621	Grade 1 = 109 psi (max)
Water Absorption	ASTM C209	< 1.0%
Flame Spread	ASTM E84 (10 min.)	1 < 75
Smoke Development	ASTM E84 (10 min.)	1 < 450
Tensile Strength	ASTM D6123	> 2000 psf
Service Temperature		-100° to +260°F

*Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤ 75 and smoke development ≤ 450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256.

* Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.