



## Product Description:

IB HD ISO is a ½" thick high density closed cell polyisocyanurate foam core panel specifically designed to use as a cover board. It is integrally bonded to a premium performance coated glass facer on both sides.

## Features:

- High compressive strength (up to 109 psi)
- High impact resistance
- Provides significantly more thermal insulation (R-value) than wood fiber or gypsum boards (2.5).
- Lightweight, easy to handle and cut
- Scores, cuts, and snaps easily and efficiently
- Coated glass facer on both sides
- Covered component under IB Total Systems Warranty
- Can be used for mechanically attached, induction attached, fully adhered, or ballasted roof assemblies

## Packaging:

Available in 0.5" thick 4' x 4' (1220mm x 1220mm) and 0.5" thick 4' x 8' (1220mm x 2440mm) panels.

## Approvals:

- ASTM C1289, Type II, Class 4, Grade 1 (109 psi max)
- UL Standard 790 (ASTM E108) Roofing Systems Classification
- FM Approvals (FM) Standard 4450/4470 Approved



## Storage & Limitations:

Store above ground on pallets and cover with breathable tarpaulins. Insulation must be protected from open flame and always kept dry. Install only as much IB HD ISO as can be covered the same day with the completed roofing system. Do not leave exposed. IB 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.

## Application:

Install the IB HD ISO in accordance with IB Specifications and Construction Details.

Refer to IB Specifications and Construction Details for installation requirements and additional information for specific uses.



Refer to SDS for more information concerning Ozone Depletion Potential. IB HD ISO is also designated with suffixes of A, H, or J to designate its point of origin within the IB Roof System distribution network.

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.

IB HD ISO can be installed over approved substrates. Can be attached in induction welded systems, mechanically attached systems, adhered in low rise urethane foam adhesive and can receive water-based, contact, and urethane-based (spatter) adhesives for membrane application.

### Typical Physical Properties\*

Property	Test Method	Result (nom)
Compressive Strength	ASTM D1621	109 psi (max)
Dimensional Stability	ASTM D2126	< 0.5%
Water Absorption	ASTM C209	1.5% (max)
Resistance to Mold**	ASTM D3273	Pass
Flame Spread <sup>1</sup>	ASTM E84 (10 min.)	<75
Smoke Development <sup>1</sup>	ASTM E84 (10 min.)	<450
Service Temperature		-100° to +260°F

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

\*\*IB HD ISO-A has not been tested for Resistance to Mold.

<sup>1</sup>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.

Product	Thickness	<sup>1</sup> Avg. LTTR	Weight lb/sf	Recycled Content <sup>2</sup>	
				Pre-Consumer	Total
IB HD ISO-A	0.5"	2.5	.50	7.4%	7.4%
IB HD ISO-H	0.5"	2.5	.34	9.0%	9.0%
IB HD ISO-J	0.5"	2.5	.375	7.9%	7.9%

<sup>1</sup>LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770-09. 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.

<sup>2</sup>Value represents average results

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