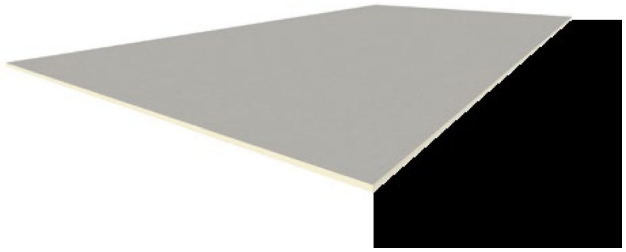
Technical Data Sheet

IB® HD ISO

IB Roof Systems®

Product Description:

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



Features:

- Coated glass facer with white on one side of the board and dark on the other side, allowing the installer to choose which side to install up to control flash-off times in fully adhered applications. For all other applications the facer performance is unchanged.
- High compressive strength polyiso (up to 109 psi)
- Lightweight, easy to handle and cut
- Contains no CFCs, HFCs, HCFCs blowing agents
- Zero Ozone Depletion Potential (ODP)
- Virtually no Global Warming Potential (GWP)*
- Lightweight (11 lbs per 4' x 8' panel); easy to cut, handle and install
- Contains approximately 9% of recycled materials by weight (pre consumer)
- Covered component under the IB Total Systems Warranty
- Can be used for mechanically attached, induction attached, fully adhered, or ballasted roof assemblies

Application:

IB® HD ISO 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 (109 psi max)
- Passed (10) ASTM D 3273 Resistance to Mold Test
- UL Standard 790 (ASTM E108) Roofing Systems Classification
- FM Standard 4450/4470 Approved
- ASTM E 108
- ASTM E 84 Flame Spread = <75
- ASTM E 84 Smoke Development = <450

Thickness	[1]Avg. LTTR	Weight lb/sf	Recycled Content		
			Post	Pre	Total
0.5"	2.5	.34	-	9.0%	7.4%

[1]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.

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

[1]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.