Technical Data Sheet

IB Energy Board III Tapered

Product Description:

IB Energy Board III Tapered is a closed-cell polyisocyanurate foam core integrally bonded to non-asphaltic, fiber-reinforced organic felt facers. IB Energy Board III Tapered offered in a variety of slopes, to achieve positive drainage as well as Long-Term-Thermal-Resistance (LTTR). Available in 4' x 4' panels with 1/8", 1/4" and 1/2" per foot slope.

Packaging:

IB Energy Board II Tapered is shrink-wrapped and job site delivered.

Features:

- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology
- Excellent LTTR to thickness ratio
- Sustainable Building Material
- Zero Ozone Depletion Potential (ODP)
- Virtually no Global Warming Potential (GWP)*
- Reduces cooling and heating loss transmission through roofing assemblies
- Covered component under the IB Total Systems Warranty
- Can be used for mechanically attached, fully adhered, or ballasted roof assemblies

Application:

IB Energy Board III Tapered can be installed over approved substrates. Refer to IB Specifications and Construction Details for additional installation instructions.

Multi-Layer Installation:

Improved insulation thermal performance and a reduction of thermal bridging can be obtained by the installation of two or more layers with all joints offset. Avoid continuous vertical joints on all multi-layer applications by staggering and offsetting the joints of each layer from those of preceding layers.

Approvals:

- ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- UL Standard 1256 Classification Construction No. 120, 123 & 292
- UL Standard 790 (ASTM E108) Roofing Systems Classification
- UL Standard 263 (ASTM E119) Fire Resistance Classification
- UL Standard 1897 Uplift Resistance
- CAN/ULC-S704, Type 2, Class 3 or Type 3, Class 3
- CCMC No. 12464-L
- FM Standard 4450/4470 Approved
- UL Certified for Canada – Insulated Roof Deck Assemblies Construction No. C38 and 52. Meet CAN/ULC-S126, CAN/ULC-S101 and CAN/ULC-S107
- GWP of IB Energy Board II Tapered is negligible and is considered zero (0) by the U.S. EPA.

Slope	Label	Thickness Min	Thickness Max	Avg. LTTR	Weight lb/sf	Recycled Content		
						Post	Pre	Total
1/8″	AA	0.5″	1.0″	4.3	.281	-	5.2%	5.2%
1/8″	A	1.0″	1.5″	7.1	.349	-	7.0%	7.0%
1/8″	B	1.5″	2.0″	10.0	.416	-	8.2%	8.2%
1/8″	C	2.0″	2.5″	12.9	.484	-	9.1%	9.1%
1/4″	X	0.5″	1.5″	5.7	.315	-	6.20%	6.20%
1/4"	Y	1.5″	2.5″	11.4	.450	-	8.68%	8.68%
1/2"	Q	0.5″	2.5″	8.6	.383	-	7.66%	7.66%

Typical Physical Properties		
Property	Test Method	Result
Dimensional Stability	ASTM D2126	<2%
Compressive Strength	ASTM D1621	20 psi or 25 psi
Water Absorption	ASTM C209 & D2842	<1.5%, <3.5%
Water Vapor Transmission	ASTM E96	<4.0 perm
Product Density	ASTM D1622	Nominal 2.0 pcf
Flame Spread	ASTM E84 (10 min.)	140-60
Smoke Development	ASTM E84 (10 min.)	150-170
Tensile Strength	ASTM D1623	>730 psf
Service Temperature	-	-100° to +250° F
*Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.		