



PRODUCTS FOR OUR ENVIRONMENT

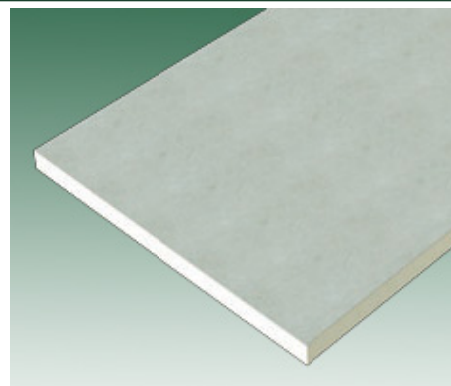
TECHNICAL DATA SHEET

ERS-Insulation-IS-B

P/N: 030-0015

030-0016

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Insulation-IS-B is a closed-cell, polyisocyanurate foam core integrally laminated to heavy, durable and dimensionally stable coated-glass facers. Polyisocyanurate rigid board insulation provides the highest R-Value per inch in the industry. Excellent R-Values reduce energy demands while maintaining compatibility with all types of roofing membranes and fire assemblies. CFC-, HCFC-, and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and zero (negligible) global warming potential (GWP).

RECOMMENDED USES:

ERS-Insulation-IS-B typically specified for hot asphalt or coal tar BUR, modified bitumen and single-ply membrane systems. A double layer application of insulation with staggered joints is well known for its improved thermal efficiency (prevention of heat loss or gain) over a single layer. Just as important, a double layer can increase the level of recycled material in the total roof insulation.

APPROVALS:



ADVANTAGES:

- Closed-cell, polyiso foam core integrally laminated to heavy, durable and dimensionally stable coated-glass facers.
- Offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 6.0 to 25.0.
- Typically specified for hot asphalt or coal tar BUR, modified bitumen and single-ply membrane systems.
- HFC-free foam blowing technology with zero ozone depletion potential (ODP) and zero (negligible) global warming potential (GWP).

LTTR VALUES:

LTTR (long-term thermal resistance) values were determined in accordance with CAN/ULC-S770 and ASTM C 1289. All test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed and authorized by FM approvals and certified by the PIMA quality mark program.

THERMAL DATA				OTHER DATA		
LTTR-Value	Thickness		RSI*	PCS/PKG	Metal Deck Flute Spanability	
	in	mm			in	mm
6.0	1.0	25.40	1.06	48	2.625	66.68
9.0	1.5	38.10	1.58	32	4.375	111.13
12.1	2.0	50.8	2.13	24	4.375	111.13
15.3	2.5	63.5	2.69	19	4.375	111.13
18.5	3.0	76.20	3.26	16	4.375	111.13
19.1	3.1	78.74	3.36	15	4.375	111.13
20.4	3.3	83.82	3.59	14	4.375	111.13
25.0	4.0	101.60	4.40	12	4.375	111.13

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INSTALLATION:

Contact Ecology Roof Systems' Technical Support for installation specifications for ERS-Insulation-IS-B. ERS-Insulation-IS-B may be attached mechanically or adhered with a variety of adhesives.

STORAGE:

Factory applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least four inches above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation.

PRECAUTIONS:

This product is a polyisocyanurate organic plastic foam and will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. Like other organic materials, this product will release smoke if ignited. Do not apply flame directly to Ecology Roof Systems' roof insulations. This product should be used only in strict accordance with Ecology Roof Systems' recommended uses and application instructions.

PHYSICAL PROPERTIES:

Property	Test Method	Typical Results
Dimensional Stability (Length & Width)	ASTM D 2126	<2%
Compressive Strength (10% Deformation)	ASTM D 1621	20 psi (138 kPa) or 25 psi (172 kPa)
Water Absorption	ASTM C 209, ASTM D 2842	<1% <3.5%
Moisture Vapor Transmission	ASTM E 96	<1.0 perm (85.0ng/ (Pa•s•m2))
Product Density	ASTM D 1622	Nominal 2.0 pcf (32.04 kg/m3)
Flame Spread	ASTM E 84 (Full 10 min. Test)	40-60*
Smoke Developed	ASTM E 84 (Full 10 min. Test)	50-170*
Tensile Strength	ASTM D 1623	>730 psf (35 kPa)
Service Temperature	-	-40 to 200° F**

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