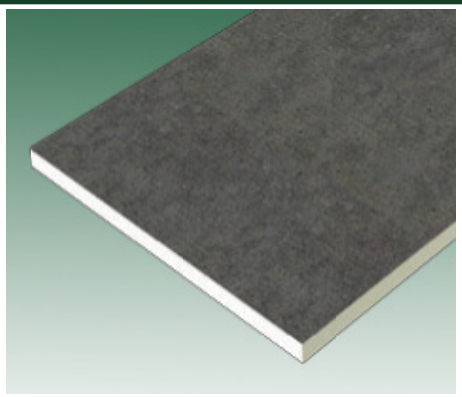
PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-Insulation-IS-A

P/N: 030-0010
030-0011

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Insulation-IS-A is a closed-cell, polyisocyanurate foam core integrally laminated to heavy, black (non-asphaltic), fiber-reinforced organic felt 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). Recycled Content: Between 16% and 43% by weight, depending on thickness (57% post-consumer, 43% pre-consumer).

RECOMMENDED USES:

ERS-Insulation-IS-A 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:

FM APPROVED

ADVANTAGES:

- Closed-cell, polyiso foam core integrally laminated to heavy, black (non-asphaltic), fiber-reinforced felt 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.

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

ERS-Insulation-IS-A roof insulation contains between 16% and 43% recycled materials by weight, depending on thickness. Since the facers are made of 100% recycled materials (57% post-consumer, 43% pre-consumer), the thinner the product, the higher the recycled content. 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.

INSTALLATION:

Contact Ecology Roof Systems' Technical Support for installation specifications for ERS-Insulation-IS-A. ERS-Insulation-IS-A 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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