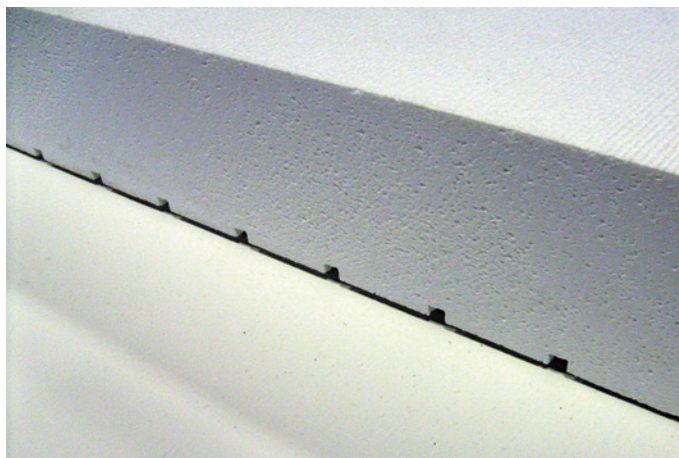


InsulFoil DB



Overview

InsulFoil DB (Drainage Board) is a high-performance, rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS). InsulFoil DB is available with compression strengths of 25, 40, or 60 psi and features 1/4" x 1/4" drainage channels every 2" on center. InsulFoil DB has excellent dimensional stability, as well as drainage and insulation properties. Additionally, InsulFoil DB can contribute toward LEED® credit requirements. Available in standard 4' x 4' and 4' x 8' board sizes with thicknesses ranging from 1" to 40" or in custom sizes, InsulFoil DB can be cut to meet virtually any size or shape requirement.

Intended Uses

InsulFoil DB is designed to be used as an above-membrane insulation in IRMA-type roofing assemblies where water drainage is a concern. Excellent for use with Roof Garden assemblies, InsulFoil DB allows water that has passed through the above Roof Garden components to flow quickly to the roof drains. InsulFoil DB is a two-in-one product that eliminates the need for flat-stock EPS or XPS insulation over a drainage board.

Features and Benefits

- Multiple standard and virtually unlimited custom sizes available
- Integrated drainage channels – 1/4" x 1/4" channels allow for quick drainage of water from the roof
- Stable R-value – thermal properties will remain stable over the entire service life
- Environmentally friendly – contains no formaldehyde or ozone-depleting gases; may contain recycled material and foam core is 100% recyclable
- Cost effective – typically less expensive than XPS or flat-stock EPS used in conjunction with a separate drain board
- Water resistance – does not readily absorb moisture
- Added protection of the roofing membrane – acts as an added layer of protection between the roofing membrane and Roof Garden assembly

Installation

InsulFoil DB shall be loose-laid directly over the waterproofing membrane with channeled side facing down. Insulation boards shall be butted up to one another with no gaps greater than 1/4".

Precautions

- Keep away from high heat and flame.
- Keep away from liquid adhesives and solvents.
- Cannot be in direct contact with PVC membrane.
- White surfaces reflect heat and may become slippery due to frost and ice accumulation.

InsulFoil DB

Typical Properties and Characteristics

Physical Property	Test Method	25 PSI	40 PSI	60 PSI
Density (nom. pcf)	ASTM C303	2.00	2.50	3.00
C-Value (Conductance) - per inch BTU/(hr•ft ² •°F) @ 25°F @ 40°F @ 75°F	ASTM C518 or ASTM C177	0.200 0.210 0.230	0.198 0.206 0.222	0.196 0.198 0.217
R-value (Resistance) - per inch BTU/(hr•ft ² •°F)/BTU @ 25°F @ 40°F @ 75°F	ASTM C518 or ASTM C177	5.00 4.76 4.35	5.05 4.85 4.50	5.10 5.05 4.60
Compressive Strength (psi, 10% deformation)	ASTM D1621	25 – 33	40	60
Flexural Strength (min psi)	ASTM C203	50	60	75
Dimensional Stability (max %)	ASTM D2126	2.00	2.00	2.00
Water Vapor Permeance (max per., 1 inch)	ASTM E96	2.00	2.50	2.50
Water Absorption (max % vol)	ASTM C272	2.00	2.00	2.00
Capillarity	–	none	none	none
Flame Spread	ASTM E84	<20	<20	<20
Smoke Developed	ASTM E84	150 – 300	150 – 300	150 – 300

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED Information

Pre-consumer Recycled Content	Up to 15%
Post-consumer Recycled Content	Up to 15%
Manufacturing Location(s)	Anchorage, AK Aurora, CO Chino, CA Dixon, CA Kent, WA Lakeland, FL Mead, NE Phoenix, AZ Salt Lake City, UT
Solar Reflectance Index (SRI)	N/A



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