

Aerowall[®]

Siding BackerBoard



- Standard density is 1#
- Manufactured in accordance with ASTM C578
- Compressive Strength: Minimum 10 psi

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Description

Kingspan Insulation, LLC (“Kingspan”) manufactures expanded polystyrene. Siding BackerBoard, is available in various sizes, densities, profiles and is an engineered insulation product made from expanded polystyrene (EPS). Siding BackerBoard is crafted to meet or exceed the standards set by ASTM C578, Type I, which is the recognized specification for rigid cellular polystyrene thermal insulation.

Siding BackerBoard exhibits are resistant to water absorption (<4% by volume), helping ensure resistance to mold, rot, and decay. This versatile BackerBoard can be effortlessly cut with a knife or scored and snapped along a sharp edge. Comprising a robust foam structure, BackerBoard bolsters the overall R-value, making it an excellent choice for siding underlayment and insulation.

Advantages

- Siding BackerBoard can be manufactured in a wide variety of sizes, densities, thicknesses to any kind of project specific need.
- The thermal properties will remain stable over its lifespan

Compliances and Approvals

EPS insulation products have been tested and found to meet the requirements of the specifications listed below. A Kingspan representative can provide you the assistance in determining the suitability of these and any unlisted specifications.

- Manufactured from EPS Blocks certified to ASTM C578

Product Data			
Physical Properties ¹	ASTM Method	Units	Type I
Density (min)	C303 or D1622	lb/ft ³	0.9
Compressive Strength at 10% Deformation (min)	C165	psi	10
Flexural Strength (min)		psi	25
Thermal Resistance (1" thick)	C518	hr.ft ² .°F/BTU	
		75°F	3.6
Water Absorption	C272	% by Volume	<4
Water Vapor Permeance (1" thick)	E96	perm	5
Maximum Service Temperature		°F	165F
Oxygen Index (min)	D2863	volume %	24
Flame Spread	ASTM E84	6 inch max	≤25
Smoke Development	E84		≤450

¹ These are nominal values obtained from representative samples, subject to normal manufacturing variances. For additional ranges and specifications, contact Kingspan.
² Installed in a thickness or stored in an effective thickness, as indicated, for a density of 1¹ to 2² lb/ft³.

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Handling & Storage

Kingspan EPS is made of synthetic materials that is generally recognized as not providing a food source for insects, fungus, mold, or mildew. It should always be properly installed and stored.

Health & Safety

For detailed safe handling and safety information, refer to product SDS.

This product should not be used as an exposed interior surface in buildings where people can be expected to be present. An approved fire protection barrier, such as ½" gypsum wallboard or equivalent, should be applied between this product and the interior of such buildings. Fire and building codes should be followed.

All assemblies should be evaluated for effectiveness and location of vapor retarders to avoid condensation and subsequent damage to structures (ASHRAE Handbook of Fundamentals). Since foam backer boards are non-structural, they must be installed over adequately braced framing in accordance with local building codes.

WARNING: Do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

Sustainability

EPS rigid foam insulation is an inert, organic material produced from petroleum and natural gas by-products. Our EPS product does not contain chlorofluorocarbons (CFCs) or hydro-chlorofluorocarbons (HCFCs). It provides no nutritive value to plants, animals or micro-organisms.

Other EPS Products

- Holey board roof insulation for lightweight concrete roof applications
- Architectural shapes for decorative and architectural applications; an excellent alternative to wood or concrete
- Insulated concrete forms

For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative.

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Please scan the QR code for the most recent product information.

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