

ISOBRACE

DESCRIPTION

ISOBRACE OSB is a composite panel consisting of expanded polystyrene insulation laminated to a perforated 7/16" Oriented Strand Board (OSB). The OSB panel is perforated at regular intervals.

ISOBRACE AIR+ is the combination of ISOBRACE OSB with a membrane made of strong non-woven engineered fabrics laminated on the OSB surface that can be used as a weather and an air barrier.

APPLICATIONS

Exterior Above Grade Wall Insulation

- New constructions and retrofits.
- Residential and light commercial.
- Can be installed on various types of building structures.

ADVANTAGES & BENEFITS

Increases Structural Rigidity

- Contributes to the structural strength of the building's walls.
- Can eliminate the need to add temporary bracing.
- Provides support for exterior cladding.

Provides Continuous Exterior Insulation

- Eliminates thermal bridging between the structure and the exterior cladding.
- Meets the highest insulation requirements.
- Stable and permanent insulating value.

Water Vapour Permeability

- Perforated OSB panel at regular intervals to increase water vapour permeability.

Ease of Installation

- All-in-one product eliminates multiple installations.

Get more with ISOBRACE AIR +

Continuous air & water-resistive barrier

- No need to add another membrane when panels are sealed.
- Creates a continuous air barrier.
- Flashing easy to install simply by lifting the air barrier membrane.

DIMENSIONS

DIMENSIONS	THICKNESSES	R-VALUE (RSI)
	1 5/16"	4.15 (0.73)
48" x 108"	1 9/16"	5.15 (0.91)
Butt edge*	1 13/16"	6.18 (1.08)
	2 3/16"	7.65 (1.35)

*The insulation slightly exceeds to ensure the continuity of insulation and recommended 1/8" space between OSB panels.

Available: 48" x 96", other thicknesses.



ENVIRONMENT

Containing 98% air and only 2% of plastic, ISOBRACE expanded polystyrene component presents lower risks of toxicity than those from conventional building materials and, does not and has never contained ozone-depleting expansion gases that damage the ozone layer.

ISOLOFOAM expanded polystyrene is certified for low chemical emission: Greenguard and Greenguard Gold (UL.COM/GG).

The Oriented Strand Boards (OSB) used in the composition of ISOBRACE products are FSC (Forest Stewardship Council) or SFI (Sustainable Forestry Initiative) certified.

ISOLOFOAM products contribute to obtaining LEED® credits. For complete details of the potential contributions contact us.

INSTALLATION

Install product in accordance with:

- ISOBRACE OSB or ISOBRACE AIR+ Installation Guide
- Applicable building code requirements, including bracing requirements related to building types, seismic hazards, and wind forces.

Install panels with OSB and/or printed membrane facing out allowing the foam to be in direct contact with the framing. Panels may be oriented vertically or horizontally. ISOBRACE AIR+ panels must be installed so that writing is legible when oriented vertically and must be covered within 180 days of installation.

Fastener: Install fasteners in compliance with applicable requirements. Common, twisted or ring nails shall be used. Fastening spacing should not be greater than 6" on the perimeter and no greater than 12" on intermediate supports.

The suggested length of nails is:

Min. 2 1/2" for R4.15 panel | Min. 3" for R5.15 panel
Min. 3" for R6.18 panel | Min. 3 1/2" for R7.65 panel

ISOBRACE AIR+ Tightness: For air and water tightness with ISOBRACE AIR+, install sealing tape or self-adhesive sealing membrane in accordance with manufacturer's recommendations. Framing nails used for fixing the panel must be covered.

TECHNICAL DATA SHEET **ISOBRACE OSB | ISOBRACE AIR+**

TECHNICAL DATA

Safety Data Sheet (SDS) of ISOLOFOAM products is available on the website.

ISOBRACE Properties	METHODS	UNITS	RESULTS
Thermal Resistance	ASTM C518	m ² •°C/W/25 mm (hr•ft ² •°F/Btu/in)	See dimensions
EXPANDED POLYSTYRENE (EPS)			
Compressive Strength Min.	ASTM D1621	psi (kPa)	16 (110)
Flexural Strength Min.	ASTM C203	psi (kPa)	35 (240)
Water Vapour Transmission Max.	ASTM E96	ng/Pa•s•m ² (perms)	200 (3.5)
Water Absorption Max.	ASTM D2842	%	4
Dimensional Stability	ASTM D2126	%	1.5
Flame Spread Max.	CAN/ULC S102.2M	-	240
Smoke Developed Max.	CAN/ULC S102.2M	-	415
ORIENTED STRAND BOARD (OSB)			
Construction Sheathing	CSA-0325 – W24, Exposure 1 DOC PS-2		

ISOBRACE OSB

Water Vapour Transmission*	ASTM E96	ng/Pa•s•m ² (perms)	>60* (>1)*
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*Property limited to ISOBRACE OSB NVB products where final laminated product water vapour permeability had been confirmed.

ISOBRACE AIR+

AIR BARRIER MEMBRANE

Air Permeability – Material	ASTM E2178	l/s•m ²	0.01
Water Vapour Transmission	ASTM E96	ng/Pa•s•m ² (perms)	3432 (60)
UV Resistance	-	days	180

WARRANTY

Meets the standards and requirements of:

EPS Insulation: CCMC # 12895-L, Compliance to ULC-S701.1:17, EPS Type 2
Product certified for low chemical emissions: GREENGUARD - UL 2818 and GREENGUARD Gold - UL 2818

OSB Panel: CSA-0325 – W24, Exposure 1
DOC PS-2
FSC or SFI

Membrane (AIR+): CCMC #13426-R, Sheathing membrane
CCMC #13617-R, Air barrier material

TECHNICAL SERVICE

Detailed information including specifications, product literature, reports, installation guides is available through ISOLOFOAM. Please visit isolof foam.com or call 1-800-463-8886 to speak to a representative.

AVAILABILITY & COST

Availability: Throughout eastern Canada.
Cost: Current price list available on request.

LIMITATIONS

Combustible if exposed to an open flame or other substantial and sustained source of ignition. Avoid contact with petroleum-based solvents or their vapours. Avoid prolonged exposure to direct sunlight. Butyl adhesives are not recommended with the product.

STORAGE SPECIFICATIONS

- This product should be stored under the same conditions as common OSB boards.
- When possible, indoor storage is recommended.
- If stored outdoors, cover the panels with a plastic sheeting (tarp) to protect them from bad weather and ultraviolet rays. Cover must allow air circulation.
- Store and handle panels flat. Use at least three (3) supports on the 8-foot length, one at center and the others at approximately 16" (400 mm) from ends to reduce the risks of deformation. Product must be stored at least 4" (100 mm) from the ground.

MANUFACTURER

ISOLOFOAM GROUP
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ISOLOFOAM products are designed and made in CANADA.

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