







Product Description:

Atlas Rboard® rigid insulation is a closed cell polyisocyanurate (polyiso) foam core, faced with a non-reflective coated glass-mat facer on both sides. Rboard® combines high R-value, enhanced durability from two coated glass-mat facers, and water resistive attributes in a high performance rigid insulation board. Rboard® is suitable for a variety of continuous insulation (CI) applications.

Panel sizes are 4' by 8' or 4' by 9'. Panels can be supplied in nominal 16" or 24" widths for use in cavity wall applications. Custom sizes are also available.



Rboard® is a very versatile rigid insulation board for use in multiple energy saving applications. It is designed for all types of construction including commercial, institutional and residential. The coated glass-mat facers enhance the board's durability in a similar manner to their use on exterior glass-mat gypsum boards. The coated glass-mat facers are more permeable than foil facers.

Common applications include:

- · Exterior and interior insulating sheathing for walls framed with wood or steel studs. Interior application requires a thermal barrier
- Exterior or interior CI (continuous insulation) for cmu/block/concrete wall systems. Interior application requires a thermal barrier
- Exterior CI (continuous insulation) for installation over wood or gypsum sheathings
- Use over existing cladding to improve energy efficiency and provide a level surface prior to installing a new cladding

COMPLIANCES:

- CCMC Evaluation Report #12423-L
- CAN/ULC S704 Type 2, Class 3
- CAN/ULC S102 Burn Characteristics, Flame Spread <500
- ASTM-E84 Fire Test Results Flame Spread Index <75, Smoke Development Index <450
- Uses CFC-, HCFC-, and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and zero (negligible) global warming potential (GWP)



THERMAL VALUES:

R-value ^{1,2}	RSI	Nominal Boar	rd Thickness ³
3.0	0.53	0.5	13
4.5	0.79	0.75	19
6.0	1.06	1.0	25
9.0	1.58	1.5	38
12.1	2.13	2.0	51
15.3	2.69	2.5	64
18.5	3.26	3.0	76
21.7	3.82	3.5	89
25.0	4.40	4.0	102

- Onditioned thermal values were determined by ASTM Test Method C518 at 75°F mean temperature. Test specimens were conditioned in accordance with procedures outlined in CAN/ULC S704, Section 6.4.2.1.
 """ means resistance to heat flow. The higher the R-value, the greater the insulating power.
 Other sizes available upon request. Contact your local Atlas sales office.

RBOARD® MEETS OR EXCEEDS THE FOLLOWING PHYSICAL PROPERTIES:

Property	Test Method	Test Method Minimum Requirements
Tensile Strength	ASTM D1623	> 35 kPa (5.08 psi)
Flexural Strength	ASTM C203	> 275 kPa (40 psi)
Water Vapour Permeance	ASTM E96 desiccant method	> 60 ng/(Pa•s•m²) at 25.4mm (1.05 perm)
Water Absorption	ASTM D2842	< 3.5% by volume (typical results <0.6% by volume)
Dimensional Stability at -29°C, Ambient Humidity at 80°C, Ambient Humidity at 70°C, 97% Relative Humidity	ASTM D2126 ASTM D2126 ASTM D2126	± 2% length or width ± 2% length or width ± 2% length or width
Service Temperatures	-	-73°C to 122°C



INSTALLATION:

Rboard® may be installed over common types of construction substrates using fasteners or adhesives. This includes concrete, wood, wood stud, steel stud, glass-mat gypsum, air and vapor barrier membranes. For specific installation instructions, contact Atlas.

CONFIGURATION FOR SHEATHING MEMBRANE:

Atlas Rboard® can take the place of a sheathing membrane in some jurisdictions. In this type of installation it is typically required to tape or seal all joints between boards and at penetrations and openings. Atlas recommends sealing into rough opening flashing and to other portions of the building, including the roof and below grade. Atlas Rboard® coated glass-mat facers are compatible with most standard joint sealants and adhesives. Consult your local representative for suggestions, contact your chosen product manufacturer for specific compatibility.

THE ELEMENTS OF AN ENERGY EFFICIENT WALL SYSTEM

	Features	Advantages	Benefits
	Thermal	A higher R-value per inch of continuous insulation (CI) delivers a thinner wall profile and reduces thermal bridging.	Increased energy efficiency. Reduced cost for materials and labor.
*	Fire	CAN/ULC S102 Burn Characteristics, Flame Spread <500 ASTM E84 <75 Flame Spread Index, <450 Smoke Development Index.	Polyiso is a thermoset material that chars in place and does not drip.
0	Water	Rboard® has low water absorption and provides a good water shedding surface. It can also eliminate the need for a separate sheathing membrane.	Added protection from liquid water (rain) damage and potential mould. Neither foam nor facer is a food source for mould.
	Air	Rboard® provides resistance to air movement and can also eliminate the need for a separate sheathing membrane.	Can support a more energy efficient building by limiting air exfiltration and infiltration. Help protect your building from moisture-laden air entering wall cavities for potential condensation issues.
	Vapour	Reduces water vapour transmission.	Can reduce the potential for condensation by its low perm rating and high insulating value.
	Environmental	HCFC-, CFC-, HFC- Free blowing agent technology. Inorganic/paperless facer.	Zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP). Less fossil fuel used to heat/cool buildings. Contains 2.5 - 9% recycled content by weight.
(O ₂)	Air Quality	Atlas polyiso has been tested for VOC and formaldehyde emissions, in which reported emissions were below the emission levels allowed under both the GREENGUARD and GREENGUARD Schools and Children criteria.	Breathe Better. Foam and Facers are not food sources for mould. Facer is stable and mould resistant as per Greenguard ASTM D6329 rating of 4.

PRECAUTIONS/LIMITATIONS:

- This product will burn and may contribute to flames and smoke spreading.
- Design use of this product must always follow local codes, especially
 with regards to Sheathing Membrane and Vapor Retarder. Atlas highly
 recommends the use of a dew point calculation of the proposed wall
 assembly to determine the types and locations of weather resistive
 barriers as well as needed insulation thickness/R-value to mitigate any
 condensation potential.
- Rboard® is not a structural product, local codes must be followed for bracing requirements.
- Storage: Boards should be stored indoors. If left outdoors for any length of time, keep dry by covering completely with a waterproof tarpaulin. Store on flat pallets elevated at least 4" above the floor or ground and standing water.
- Follow the cladding manufacturer's recommendation for attachment of the cladding.
- Rboard® is not intended to be exposed in excess of 60 days. Atlas
 recommends that all of the wall cladding material be installed within 60 days
 of installing the product.

ACCESSORY PRODUCTS (NOT SUPPLIED BY ATLAS):

- Fasteners Ensure compatibility with the substrate and wall components. Length must allow a minimum of %" inches penetration into wood substrates.
- Nails 3/8" diameter galvanized roofing nails.
 - 6D ring shank nails and ¹5/16" diameter plastic washers.
- Staples 1" crown 16 gauge staples driven at least ½" into framing
- Plastitop Nails self drilling screws with ¾" diameter cap washers with ¾" framing penetration.
- Joint Tape UV resistant polypropylene film coated with high shear, high tack solvent based acrylic adhesive or other tape as listed by CCMC and approved by Atlas.
- Adhesives Many construction adhesives and insulation adhesives are compatible with Rboard®. Consult the adhesive manufacturer or Atlas for more information.

WARRANTY:

A 15 year limited thermal warranty is available. Please see www.AtlasWallCi.com or contact your Atlas representative.

Atlas Roofing Corporation assumes no responsibility for building design or construction, which is solely the responsibility of the owner, architect, engineer or contractor.

Technical specifications are intended as general guidelines only, physical properties are representative based on testing, no warranties are given except for those specifically written by Atlas for its products

LOCAL Production and Support: Atlas has the largest production footprint of any polyiso manufacturer for quick access to the products you need.

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