



BUILDING TRUST



BUILDING A STRONGER FUTURE

**Polyiso Continuous Insulation
Off Site Construction Applications**





WHERE PRECISION MEETS PROGRESS

VALUE ADDED PERFORMANCE.

Polyiso continuous insulation is a rigid foam insulation made from polyisocyanurate, a closed-cell and closed matrix foam. It is used to provide continuous thermal resistance across a building's exterior walls or as a high-performance cavity insulation, minimizing heat transfer and improving energy efficiency.

MULTIPLE DESIGN OPTIONS.

can be used with a variety of structural wall systems & cladding materials such as brick, wood, vinyl, aluminum, cement board & stucco.

Thermal Performance

Polyiso has a high R-value per inch compared to other insulations, helping to keep buildings warm in the winter & cool in the summer - improving the building's overall performance.

Continuous Air Barrier

Restricts air movement through the wall, eliminating air leaks & keeping energy & heat loss to a minimum - increasing the building's energy efficiency.

Resists Water Absorption

Polyiso has a closed-cell & closed matrix foam core, preventing water intrusion & moisture migration - eliminating the need for house wrap.

Fire Resistance Properties

When exposed to flames, Polyiso (a thermoset material) will char, forming a protective barrier that slows the spread of flames—unlike XPS (a thermoplastic material), which will melt and drip, contributing to the rapid spread of fire.

MEETING STANDARDS. EXCEEDING EXPECTATIONS.

Rmax® insulation products are designed and tested to meet code requirements, so builders can insulate with confidence, knowing standards will continuously be met.

Continuous Insulation

Energy codes often require continuous insulation to eliminate thermal bridging / thermal breaks. Polyiso achieves the required R-values while using thinner insulation boards.

Air Barrier Material

Building codes often specify requirements for air barriers, including criteria for air permeance & continuity. Taped polyiso board seams create an effective air barrier that meets requirements.

Moisture Resistant

Polyiso insulation is inherently resistant to moisture absorption, helping to maintain its thermal performance over time.



INNOVATIVE PROCESS. MODERNIZED SOLUTION.

Off-site construction, characterized by its efficiency, speed, and quality, offers an innovative process for modern construction solution. When considering insulation options, polyiso is an ideal choice for off-site construction due to several key characteristics.

Space Optimization

Polyiso offers high thermal performance with minimal thickness, maximizing interior space in off-site construction where space optimization is crucial.

Fire Safety

Off-site construction may be subjected to more stringent fire safety requirements due to proximity to other structures; polyiso has time rated assemblies to meet these requirements.

Durable Protection

Polyiso boards are durable with a high compressive strength, which is important in off-site construction where modules may be transported & assembled multiple times.

Ease of Installation

Polyiso is lightweight and easy to handle, facilitating efficient off-site construction, where speed & efficiency are essential.

Reduce Waste

Boards can be pre-cut off-site, eliminating on-site cutting - reducing construction waste, labor costs & construction time.

Sustainability

Polyiso reduces environmental impact with a high R-value per inch, allows for less volume of material produced & less job site trips - for the same square foot of wall.

Fire Resistant

Using insulation with excellent fire resistant properties like polyiso, is crucial for meeting building code requirements & contributing to a fire-safe building.



GOING THE EXTRA LENGTH.

Rmax® offers custom board lengths, providing flexible solutions to fit modular and off site design needs.

A LAYERED APPROACH TO OFF SITE CONSTRUCTION

Rmax® wall systems represent a cutting-edge solution in modern construction, addressing the pressing need for energy-efficient and sustainable building practices. As the demand for high-performance building envelopes continues to rise, polyiso insulation emerges as a versatile and reliable choice, offering a multitude of benefits.

Through rigorous system testing and innovative design, Rmax® polyiso delivers superior thermal performance, moisture management, fire resistance, and durability, revolutionizing the way buildings are designed, constructed, and insulated.



Installed with insulation directly against the stud, or outboard.

**CONTINUOUS
LAYERS
OF THERMAL
& STRUCTURAL
SUPPORT**

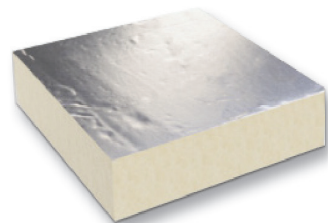
THERMABASE-CI® Structural Insulation Nailbase

A composite product manufactured with aluminum faced **Rmax® Thermasheath®** or non-metallic, inorganic polymer-coated glass fiber mat-faced **Rmax® Durasheath®** as the polyiso insulation layer bonded to OSB or plywood.

- Continuous layer of structural insulation for shear wall resistance
- Suitable substrate to support various heavy cladding systems
- Facer options to meet versatile application needs
- Optimum efficiency through multiple design options
- Lateral bracing & transverse loads
- Air & water-resistive barrier (WRB)

THERMASHEATH® Non-Structural Insulation

Reinforced aluminum facers with a clear coating for limited protection against oxidation



DURASHEATH® Non-Structural Insulation

Offers superior durability with its non-metallic, inorganic polymer-coated glass fiber (CGF) mat facer



TION



ECOMAXCI® FR

Exterior Walls & Interior Exposed Use

A thermal insulation board composed of polyiso foam core bonded to embossed, glass fiber reinforced aluminum facers on both sides. The exposed side of the board has a heavy embossed 12mil facer with an aluminum reflective surface and clear coating for limited protection against oxidation.

- Installed continuously, eliminating thermal bridging
- Used without the need of a thermal barrier (up to 4.5" on walls or 12" on ceilings)
- Provides a durable interior finish
- Eliminates heavy sheathing, making loads significantly lighter
- Air & water-resistive barrier (WRB)
- Decreases time & costs associated with materials & labor



Fading West Single Family Project

TRUSTED STANDARDS. TRUSTED PRODUCTS.

RMAX IS CERTIFIED **CLEAN AIR GOLD**

Proves our credibility in providing **SAFE, RELIABLE,**
and **ECO-CONSCIOUS** polyiso insulation products.



Becoming Certified ensures our polyiso insulation products are manufactured to maintain a minimum concentration level of Volatile Organic Compounds (VOC) emissions. This creates more sustainable products with the health and safety of consumers, space inhabitants, and builders/fabricators in mind.

Warranties, limitations and conditions refer to Rmax® sales policy and applicable warranties. All documents are located at www.rmax.com.

Sales support, pricing and availability, email rmax@rmax.com or call (800) 527-0890.
Technical support, email rmax.technical@us.sika.com.



Rmax®, A Business Unit of Sika Corporation

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