



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<sup>®</sup> 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**

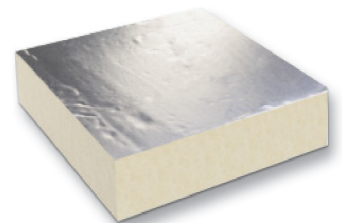
## **THERMABASE-CI®** Structural Insulation Nailbase

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-resistant 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](http://www.rmax.com).

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



### Rmax®, A Business Unit of Sika Corporation

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OFF SITE CONSTRUCTION  
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