



Residential Insulation Products

Delivering Superior Building Performance for Residential Construction

BUILDING TRUST



Delivering Superior Performance

For more than 35 years, Rmax has been creating insulation solutions based on the latest building science. Our full line of high-quality, polyiso-based roof, wall and specialty insulation products for commercial, industrial and residential applications deliver maximum R-values and minimum environmental impact, with efficiency in installation, cost and design.

As new developments in building science emerge, rest assured that Rmax will remain on the forefront, manufacturing tested, engineered solutions that serve Architects, builders, owners and occupants alike. Our people understand the diverse markets our products are used in. Their integrity and responsiveness work to your

advantage. Our manufacturing plants in Dallas, TX, Greer, SC and Fernley, NV, with sales offices coast-to-coast, stand ready to serve you.

Rmax insulation has been designed and tested to provide building envelopes with superior insulating protection, while meeting the newest codes and requirements.

Rmax's engineered products and solutions allow for ultimate efficiency through multiple design options, creating ease of construction and reduced energy usage. This leads to a better envelope all while adding to the bottom-line through both material and labor savings - making Rmax an excellent choice for residential construction.



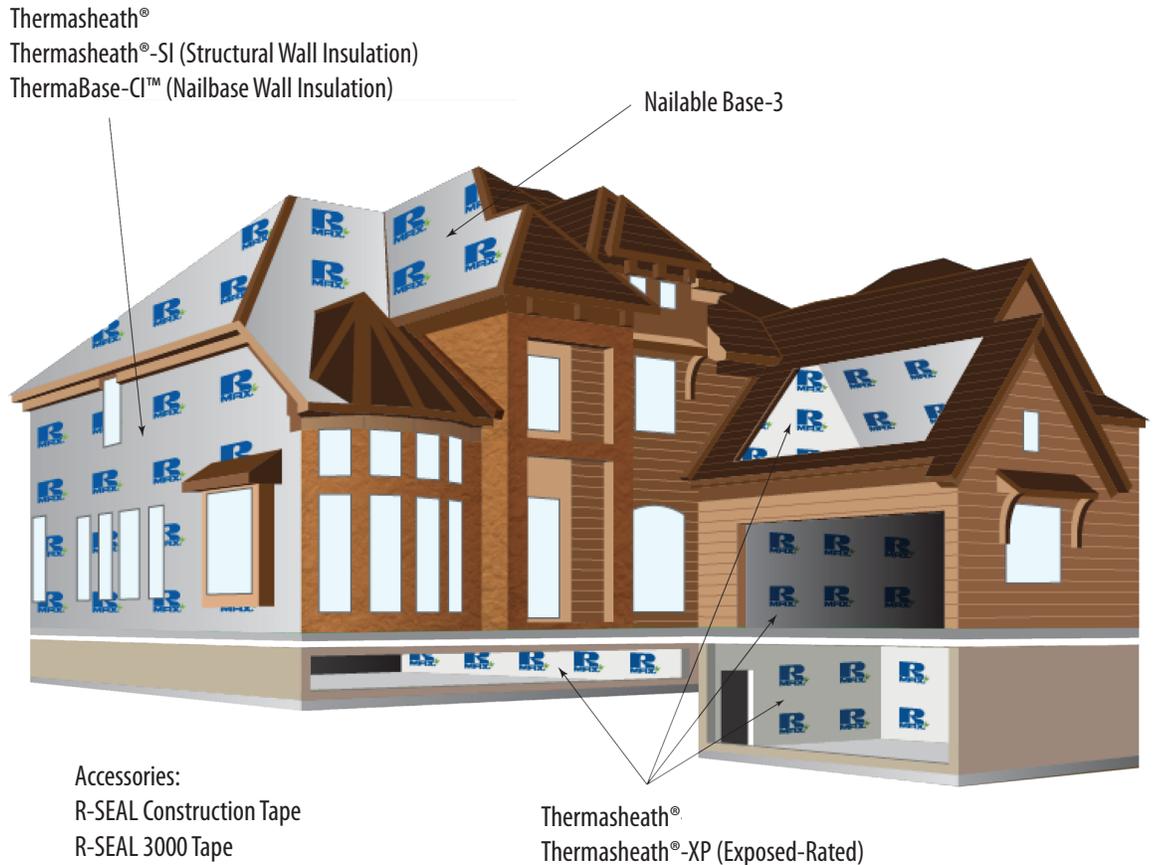
Rmax has an exceptional technical team - an Architect, Building Envelope and Building Science Specialists, as well as, licensed Professional Engineers - providing experience and expertise throughout the project, from design to construction.

Rmax "Envelope First" Residential Energy Solution

Changes in the residential building code are driving home builders to re-think their approach to improving energy performance. Traditional equipment upgrades to meet codes are both costly and require routine maintenance and replacement. However, insulation lasts throughout the life of the home offering energy savings, comfort and value to homeowners.

Rmax "Envelope First" Energy Solution creates a simpler, more durable and cost-effective building enclosure solution for any home, in any climate.

We offer a complete line of wall, roof and foundation solutions - providing superior insulation performance.



All The Reasons Why Polyiso Is The Only Choice For Continuous Insulation

- Low environmental impact
- CFC, HCFC and HFC-free blowing agent
- Cost effective, optimized energy performance
- Long service life
- Recyclable through reuse
- Meets new continuous insulation (ci) standards
- High R-value per inch of thickness
- Thinner walls and roofs with shorter fasteners
- Excellent fire test performance

Live Comfortable. Live Smart. *HERS*®

Rmax Envelope First Approach to a Lower Home Energy Rating System Index

The Home Energy Rating System (HERS®) Index is the industry standard and the nationally recognized system by which a home's energy performance is measured and calculated.

With one number, homeowners and buyers can tell how energy efficient a home is. *The lower the score, the better the energy performance.*

Walls make up the largest part of the building envelope. Our Envelope First Approach will help achieve lower HERS® scores, lower energy usage and reduced air infiltration.

The lower the score, the better the energy performance.

A lower HERS® Score means lower utility bills, more comfortable home, return on investment, higher quality and an improved resale.

How Does the HERS® Index Work?

The energy rating will consist of a series of diagnostic tests using specialized equipment, such as a blower door test, duct leakage tester, combustion analyzer and infrared cameras.

These tests will determine:

- The amount and location of air leaks in the building envelope
- The amount of leakage from HVAC distribution ducts
- The effectiveness of **insulation** inside walls and ceilings
- Any existing or potential combustion safety issues

Other variables that are taken into account include:

- Floors over unconditioned spaces (like garages or cellars)
- Attics, foundations and crawlspaces
- Windows and doors, vents and ductwork
- Water heating system and thermostats

Once the tests have been completed, a computerized simulation analysis utilizing RESNET Accredited Rating Software will be used to calculate a rating score on the HERS® Index.

Continuous insulation is one of the most thermally efficient ways of complying with stringent energy codes and eliminates thermal bridging.



Continuous Efficiency. Continuous Insulation.

Continuous insulation is insulation that is continuous across all structural members without thermal bridges other than fasteners and service openings. Continuous insulation can serve several important functions in a high-performing wall system to provide increased thermal performance, reduced operating costs, reduced air infiltration & exfiltration, reduced risk of condensation and water intrusion, efficient installation and dimensional stability.

Why Design with Polyiso Continuous Insulation?

Polyiso offers one of the highest R-values per inch with the thinnest profile which allows thermal requirements to be met with less material. It's light weight makes installation easier and can be used as air and water-resistant barriers. These performance benefits can help lower material and labor costs for many projects.

THERMAL BRIDGING

Thermal bridging occurs when a more conductive material, like wood studs, allows an easy pathway for heat to flow - continuous insulation is the solution. Using ci will break the path, creating a thermal boundary for the building envelope and eliminating thermal bridging.



AIR BARRIER

Up to 40% of energy loss in a home is due to air leaks. Therefore, codes are requiring tighter homes. Installing Rmax continuous insulation with taped joints and caulked top and bottom plates, creates an air barrier assembly preventing air leakage.



WATER-RESISTIVE BARRIER (WRB)

Over 90% of moisture that enters a wall assembly is in form of vapor due to air leaks. Condensed water vapor can lead to mold, moisture and serious health problems. Rmax Residential Solution provides a WRB which resists water intrusion and moisture migration, as well as defends against the growth of mold and mildew. Rmax Residential Solution also eliminates the need for house wrap or felt.



WALL PRODUCTS

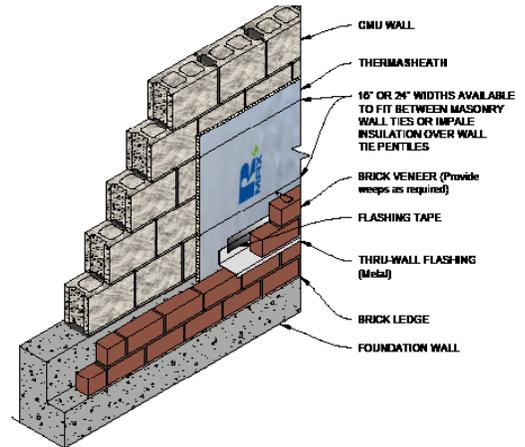
Building Envelope Insulation

Thermasheath®

These lightweight thermal insulation boards have reinforced aluminum foil facers. Thermasheath® is suitable for use in cavity walls, masonry walls, vaulted ceilings, some limited roofing applications. It is also an integral piece to maintaining the continuous insulation solution, when Thermasheath®-SI is used as intermittent bracing.

COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- DrJ TER 1309-03
- UL Time Rated Assemblies
- Water-Resistive Barrier (WRB)
- Miami Dade County
- City of LA
- IBC, IRC, IECC, ASHRAE 90.1
- ICC-ES ESR-1864
- Air Barrier Material
- WRB per AC71
- CA Insulation Directory
- CCMC

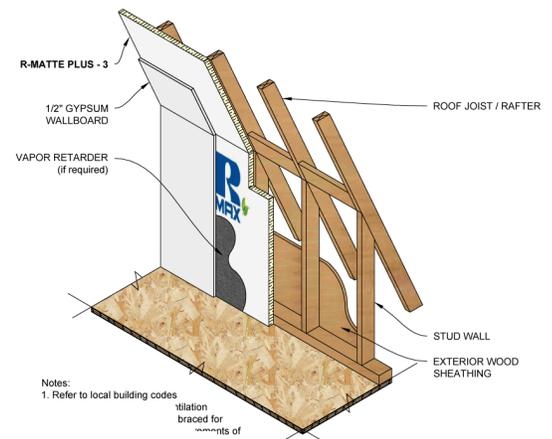


R-Matte® Plus-3

R-Matte® Plus-3 is a versatile multi-application product, with a durable white-matte (non-glare) reinforced aluminum facer and a reflective reinforced aluminum facer. This thermal insulation is designed for use in cavity walls, masonry walls, vaulted ceilings and many other building envelope continuous insulation applications. R-Matte® Plus-3 is an excellent choice for many do-it-yourself applications to add insulation value to any project.

COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- Miami Dade County
- CA Insulation Directory
- IBC, IRC, IECC, ASHRAE 90.1
- NFPA 286 (AC12 Appendix B)
- Air Barrier Material

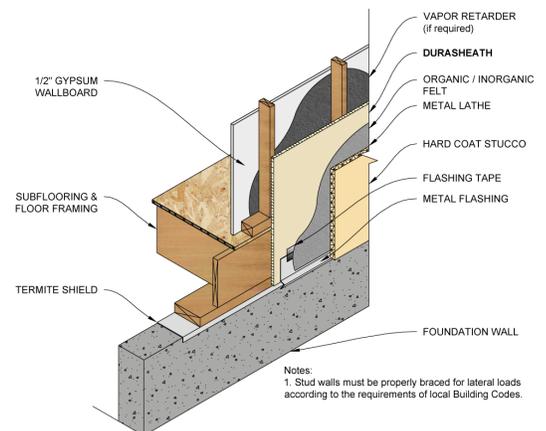


Durasheath®

Offers energy performance and superior durability with its non-metallic, inorganic polymer coated glass fiber mat facers. It is intended for use in exterior walls with stucco veneer, concrete sandwich panels and many other building envelope applications, including those where an impermeable foil faced product is not desired.

COMPLIANCES

- ASTM C1289 Type II, Class 2
- Class A Flame Spread
- UL Time Rated Assemblies
- Air Barrier Material
- IBC, IRC, IECC, ASHRAE 90.1
- CA Insulation Directory
- Exposure Rated (attics/crawl spaces)





Structural Insulation for Exterior Walls

Thermasheath®-SI

Thermasheath®-SI is a composite product made up of energy-efficient insulation and a structural component, and is designed to work seamlessly with non-structural Rmax Thermasheath®. The insulation component is a closed-cell polyiso foam bonded to reflective, reinforced aluminum facers. The structural component is a board made up of pressure laminated plies of cellulosic fibers specially treated with a water-resistant adhesive.

Thermasheath®-SI is suitable for use in residential wood stud construction. Furthermore, with 1/2" interior gypsum, it is designed to be a one-to-one substitute for wood sheathing in shear wall resistance.



COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- DrJ TER 1207-01
- Structural Shear Wall Testing
- Water-Resistive Barrier (WRB)
- IBC, IRC, IECC, ASHRAE 90.1
- UL Time Rated Assemblies
- Air Barrier Material
- CA Insulation Directory

Structural Insulation with a Nailable Surface for Exterior Walls

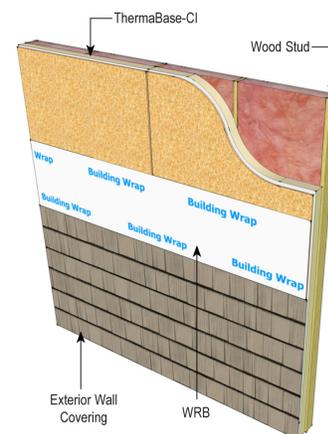
ThermaBase-CI™

This superior thermal insulation board is a composite product manufactured with Rmax Thermasheath® or Rmax Durasheath® as the insulation layer bonded to a nailing surface.

The standard nailing surface for ThermaBase-CI™ is 7/16" OSB (APA rated). Alternate nailing surfaces, such as 5/8" or 3/4" OSB or CDX plywood, are available upon request. ThermaBase-CI™ is engineered to provide shear wall resistance in addition to cladding attachment.

COMPLIANCES

- ASTM C1289 Type V
- DrJ TER 1504-05
- UL Time Rated Assemblies
- IBC, IRC, IECC, ASHRAE 90.1
- Air Barrier Material
- CA Insulation Directory



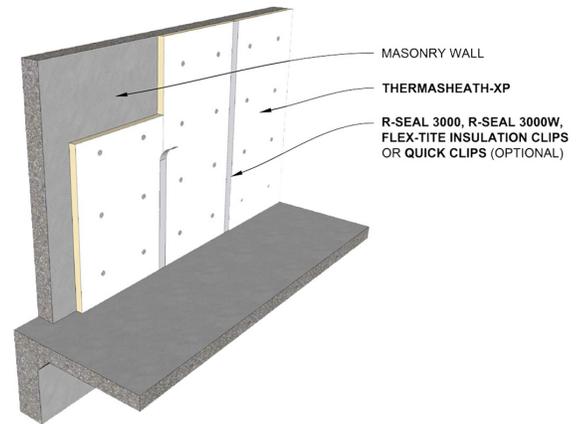
WALL PRODUCTS

Continuous Insulation for Exposed Use

Thermasheath®-XP

Rmax Thermasheath®-XP has a closed-cell polyiso foam core, bonded on both sides to highly durable, embossed aluminum facers. One side is white with a modified acrylic coating and the other side has a clear coating for a silver, reflective finish. Either side can be left exposed up to 4.5" on walls or 12" on ceilings - offering visual flexibility and value.

This insulation is ideal for basements, crawls spaces and many other continuous insulation applications. Thermasheath®-XP is designed for use without a thermal barrier to provide an attractive interior finish.



COMPLIANCES

- ASTM C1289 Type I, Class 1 and 2
- DrJ TER 1309-03
- Class A Flame Spread
- Air Barrier Material
- CCMC
- IBC, IRC, IECC, ASHRAE 90.1
- UL Time Rated Assemblies
- Exposure Rated (attics/crawl spaces)
- CA Insulation Directory

Thermal Properties / R-Values

Product	Nominal Thickness / Thermal Values ¹											
	0.5"	0.75"	1.00"	1.50"	1.55"	2.00"	2.50"	3.00"	3.50"	4.00"	4.50"	5.00"
Thermasheath®	3.2	5.0	6.0	9.6	10.0	13.1	16.7	20.3	23.9	27.4	31.0	---
R-Matte® Plus-3	3.2	5.0	6.0	9.6	10.0	13.1	16.7	20.3	23.9	27.4	31.0	---
Durasheath®	3.0	4.5	6.0	9.0	---	12.1	15.3	18.5	21.7	25.0	28.3	---
Thermasheath®-SI	3.2	5.0	6.0	---	---	---	---	---	---	---	---	---
ThermaBase-CI™												
Thermasheath® ²	---	---	3.8	6.6	---	10.2	13.7	17.3	20.9	24.5	28.0	31.6
Durasheath® ²	---	---	3.6	6.6	---	9.6	12.7	15.9	19.1	22.3	25.6	28.9
Thermasheath®-XP	---	5.0	6.0	9.6	10.0	13.1	16.7	20.3	23.9	27.4	31.0	---

¹Thermal values are determined by using ASTM C518 test method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.

²Includes 7/16" OSB.

Visit www.rmax.com for a complete list of thicknesses and packaging information.

ROOF PRODUCTS

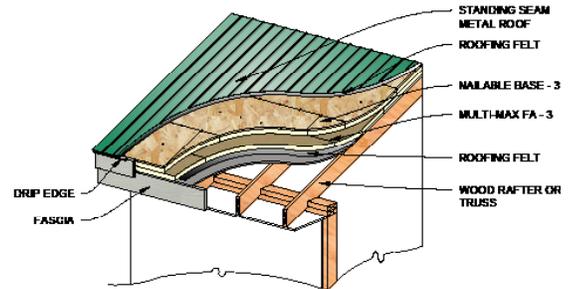
Nailable Base - Above the Deck/Rafter Insulation

Nailable Base-3

Nailable Base-3, an all-in-one roof insulation and nailing surface, has a 7/16" thick OSB nailing panel bonded to a polyiso foam board with glass fiber/organic mat facers. It is designed for use with concrete, slate or clay roofing tiles, as well as, wood shakes, asphalt shingles and metal panel roofing systems.

COMPLIANCES

- ASTM C1289 Type V
- Factory Mutual
- CA Insulation Directory
- IBC, IRC, IECC, ASHRAE 90.1
- City of LA



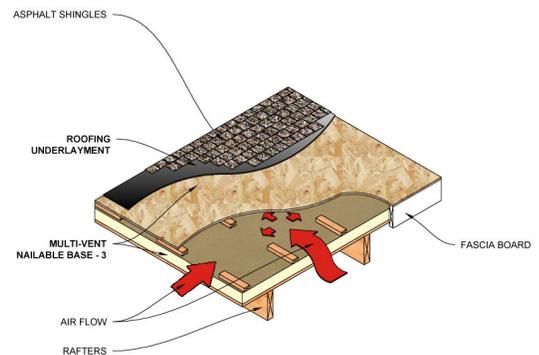
Multi-Vent Nailable Base-3

This energy-efficient composite insulation utilizes solid OSB vent blocks to separate the rigid insulation layer from the standard 7/16" OSB nailing surface. The insulation has glass fiber/organic mat facers on both sides. The solid wood vent blocks come in 3/4" to 2" thicknesses to meet enhanced multi-directional venting requirements.

Superior for use in residential steep slope roofing applications.

COMPLIANCES

- ASTM C1289 Type V
- CA Insulation Directory
- IBC, IRC, IECC, ASHRAE 90.1



Thermal Properties

Product	Nominal Thickness ^{3/} Thermal Values									
	1.0"	1.50"	2.00"	2.50"	3.00"	3.50"	4.00"	4.50"	5.00"	5.50"
Nailable Base-3 ^{1,3}	---	6.3	9.2	12.0	15.0	18.0	21.1	24.2	27.4	---
Multi-Vent Nailable Base-3 ^{1,4}	---	---	---	5.7	8.6	11.4	14.4	17.4	20.5	23.6

¹LTR values are determined in accordance with CAN/ULC-S770. LTR predicts a 15-year, time-weighted average.

²Thermal values are determined by using ASTM C518 test method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.

³Includes 7/16" OSB (thickness also includes furring or blocking where applicable).

⁴The values shown are for the foam portion only.

Visit www.rmax.com for a complete list of thicknesses and packaging information.

"Thanks again for all your help, I sincerely appreciate it. This type of customer service is unheard of now a days."

— Scott Bass, Homeowner

RMAX ACCESSORIES

TAPES AND FLASHING

R-SEAL CONSTRUCTION TAPE

Tape for Insulation Solution Joints

- 3mil white translucent OPP Film
- Acrylic adhesive
- 3" width
- Strong bond for weather-tight seals

R-SEAL 3000 / 3000W

Tape for Insulation Solution Joints

- 2mil aluminum foil
- Acrylic adhesive
- 4" width
- Specifically designed for cold weather conditions

R-SEAL 6000

Flashing for Windows, Doors & Penetrations

- 35mil polyethylene membrane
- Butyl rubber adhesive
- 9" and 12" widths
- Self-sealing

R-SEAL 2000 LF

Liquid Flashing

- ABAA evaluated and listed
- Primerless adhesion
- UV and weather resistant
- Effortless to spread/trowel

FASTENERS

2" THERMAL-GRIP CI WASHER AND GRIP-DECK SCREWS

- Steel stud construction
- Exterior applications
- Solid washer for preventing air and water leakage, pronged for pre-spotting
- Ceramic coated screws for corrosion resistance

1 3/4" PLASTI-GRIP CI WASHER AND GRIP-DECK SCREWS

- Wood or steel stud construction
- Interior applications
- Key-holed washer, pronged for pre-spotting
- Ceramic coated screws for corrosion resistance

PLASTI-GRIP PMF

- Concrete, block/CMU, tilt-wall construction
- Interior and exterior applications
- Flat head sits flush with insulation

NAILBOARD FASTENERS

SIPLD LIGHT-DUTY #2

Attaching Panels to Corrugated Steel (22-18GA) Wood

SIPHD HEAVY-DUTY #4

Attaching Panels to Thick Steel (16GA-3/16") without Pre-Drilling

SIPTP GIMLET THREAD POINT

Attaching Panels to Wood and Timber



SIPLD



SIPHD



SIPTP

PVC INSULATION CLIPS

QUICK CLIP

Retaining system



FLEX-TITE

Two-part interlocking retaining system



FLEX-TITE J-CHANNEL

Retaining system to finish all terminations



A Better Insulation Solution: Rmax Residential Solution

Rmax product solutions and our technical support team can help builders, designers and Engineers meet the requirements of today's codes and plan for tomorrow. These ideal solutions provide maximum efficiency, durability and protection at the lowest cost.

Thermasheath®-SI **Structural Insulation for Exterior Walls**

This 4-in-1 approach saves builders time and money on installation and offers a flexible design as it can be used continuously across the entire wall or as intermittent bracing panels in conjunction with Rmax Thermasheath®.

This building solution, including Rmax tape and flashing, meets four code requirements in one:

- Structural Bracing
- Thermal Resistance (R)
- Air Barrier
- Water Barrier

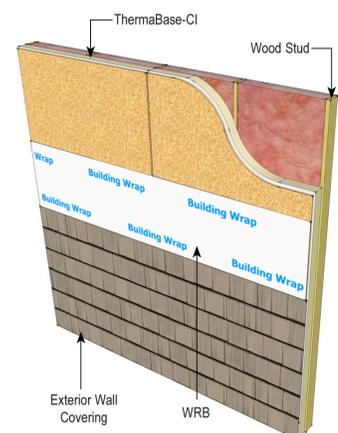
Thermasheath®-SI replaces other structural bracing methods, as well as house wrap and other independent air barrier systems with only one pass around the house.



ThermaBase-CI™ **Continuous Insulation for Exterior Walls**

Rmax ThermaBase-CI™ is applied to wood framing with the insulation to the interior and wood to the exterior in order to provide a continuous layer of structural insulation for shear wall resistance, as well as, a suitable substrate for the mechanical attachment of many different kinds of cladding systems.

ThermaBase-CI™ is ideal for use in stud construction, new or retrofit, where a substrate is needed to support the cladding. This allows for optimum efficiency through multiple design options, ease of construction, a better building envelope and reduced energy usage. Providing a direct impact on the savings throughout the life of the building, ThermaBase-CI™ is an excellent choice for exterior residential wall design.





BUILDING TRUST



For warranties, limitations and conditions refer to Rmax Sales Policy and applicable warranties. All documents are located at www.rmax.com. For technical support, email technical@rmax.com. For sales support, pricing and availability, email rmax@rmax.com or call (800) 527-0890.

Proudly Made and Engineered in the U.S.A.



Rmax Sales Offices and Plant Locations

Central:

13524 Welch Road
Dallas, Texas 75244

Phone: 972-387-4500
Fax: 972-387-4673
Toll Free: 1-800-527-0890

East:

1649 South Batesville Road
Greer, South Carolina 29650

Phone: 864-297-1382
Fax: 864-234-7548
Toll Free: 1-800-845-4455

West:

210 Lyon Drive
Fernley, Nevada 89408

Phone: 775-575-4849
Fax: 775-575-5035
Toll Free: 1-800-762-9462

E-mail us at rmax@rmax.com or visit our website www.rmax.com

