



BUILDING TRUST



THERMASHEATH®
below-grade exterior
wall solution

POLYISO INSULATION

R
MAX®
THERMASHEATH®
CONTINUOUS INSULATION
Optimizes Energy Efficiency



Manufactured and Engineered in the U.S.
Since 1978
Rmax
Dartmouth, Ferryway, NY, Great ST
www.rmax.com
1-800-531-1111

- Why choose this Polyiso over other rigid foam insulation**
- Best R-value per inch
 - Best moisture resistance
 - Best fire resistance
 - Best air and vapor barrier
 - Best sound attenuation
 - Best long-term performance

HIGH PERFORMANCE POLYISO INSULATION

THERMASHEATH® FOR BELOW-GRADE EXTERIOR WALL SOLUTION

All building foundations come in contact with the ground. Wherever a building is located, water, temperature, air and soil on the foundation can impact the performance and integrity of the total structure.

Continuous polyiso rigid foam insulation is an effective way to reduce foundation energy loss and protect against moisture problems.

Rmax polyiso provides excellent moisture resistance because of its durable, closed-cell structure. This rigid foam insulation offers high R-value (R-13.1 at 2 inches) and exceptional compressive strength.

RMAX THERMASHEATH® POLYISO

- Improves thermal performance
- Resists water absorption
- Reduces the potential for condensation
- Protects the waterproofing/damp-proofing

ADVANTAGES OF INSULATING WITH THERMASHEATH®

EXTERIOR VS. INTERIOR SIDE OF THE WALL

- Does not reduce the usable building space
- Completely continuous for optimal energy efficiency
- Mass of foundation within the insulated building envelope
- Warm wall solution minimizes condensation on interior side of wall
- Provides protection for the waterproofing
- Eliminates freeze/thaw on structural elements
- Easiest install

LET'S COMPARE

Important Insulation Characteristics for Below-Grade Exterior Wall Applications

	POLYISO Polyisocyanurate Continuous Insulation	XPS Extruded Polystyrene Insulation	EPS Expanded Polystyrene Insulation
AGED R10 THICKNESS ASTM C518	1.55"	2.0"	2.5"
WATER ABSORPTION ASTM C272 (MAX BY VOL)	0.3% (with or without facers)	0.3%	2%
COMPRESSIVE STRENGTH ASTM D1621 (MIN)	16-25 psi	15-25 psi	15-25 psi
FOAM PROTECTION	Reinforced Aluminum Facers	None	Optional (Additional Costs)

R-10 RMAX POLYISO OFFERS THE BEST VALUE

DELIVERING MORE WITH LESS. POLYISO.

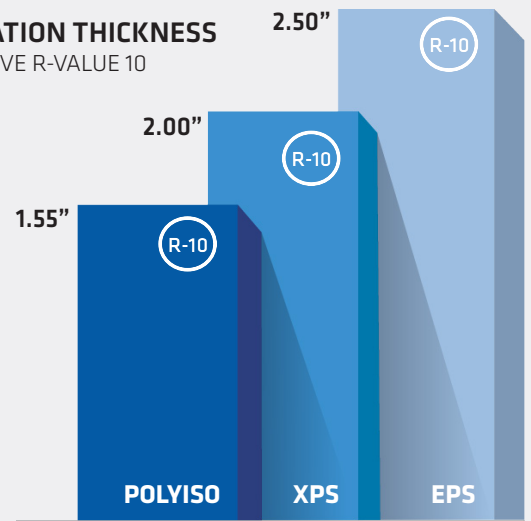
Thermasheath polyiso has a high R-value per inch when compared to other insulation products. This allows polyiso to meet R-value requirements with a thinner profile.

ENVIRONMENTAL CYCLING ASTM C1512

ASTM C1512 test method was developed to evaluate building insulation performance when exposed to moisture and freeze-thaw cycles.

After third-party testing, Rmax Thermasheath® resulted in no change in compressive or tensile strength and maintained superior thermal

INSULATION THICKNESS TO ACHIEVE R-VALUE 10

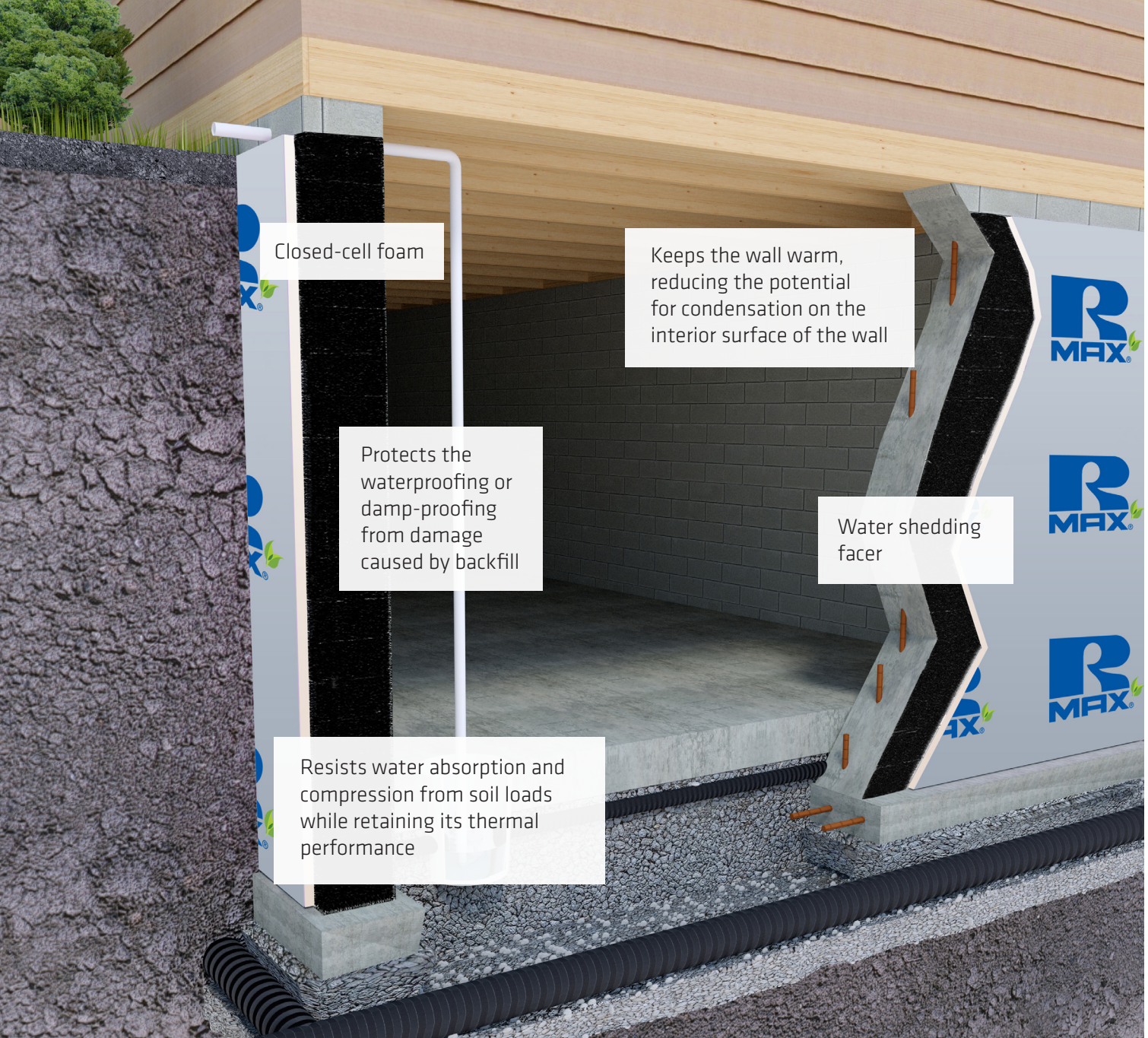


RMAX POLYISO IS THE BEST CHOICE

POLYISO Polyisocyanurate Continuous Insulation

XPS Extruded Polystyrene Insulation

EPS Expanded Polystyrene Insulation



WATER ABSORPTION

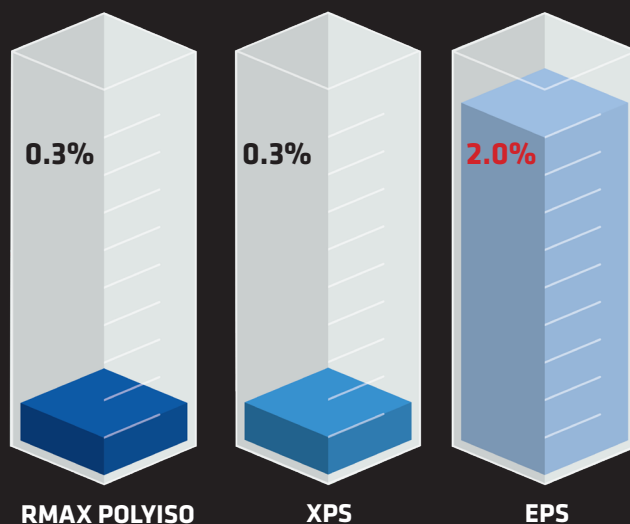
Water is a great conductor and can significantly reduce the thermal performance of insulation. Polyiso foam has a closed-cell and closed matrix preventing water absorption making it a great choice for below-grade applications.

RMAX POLYISO CONTINUOUS INSULATION

Meets ASHRAE 90.1 below-grade water absorption requirements / Less than 0.3% (by vol.) water absorption per ASTM C272

PRODUCT COMPARISON

MAX WATER ABSORPTION PER ASTM C272 (% by vol.)



WORKING HARD UNDER PRESSURE

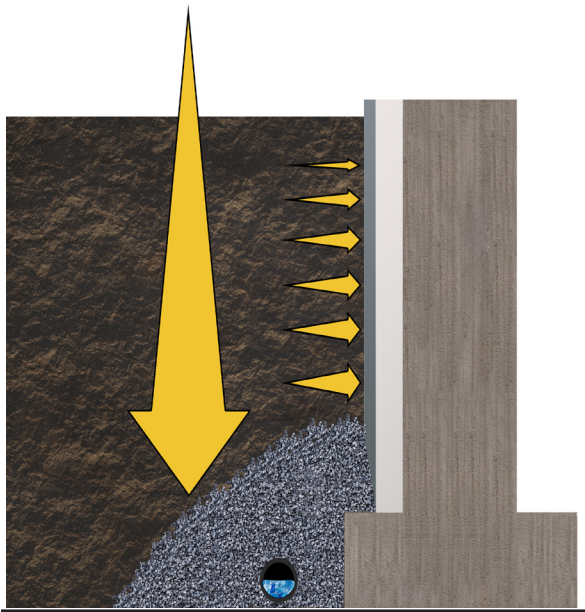
Compressive strength is the ability of the product to resist crushing or deformation under a given load. A below-grade product must be able to resist three types of loads without crushing in order to maintain thermal performance.

The three load types are:

1. Soil weight - pressure that soil exerts on the foundation
2. Hydrostatic (water) pressure - created by standing water pushing against any object blocking it
3. Surcharge loads - transient or permanent loads on the ground adjacent to the building

With standard compressive strengths from 16 psi to 25 psi¹, Rmax polyiso insulation can resist pressures from all three types of loads that may act on the foundation wall. ASCE 7-10 Design Lateral Soil Load Table 3.2-1 shows as much as 800 lb/ft² pressure on the insulation at 8' below-grade. At a minimum of 2300 lb/ft² (16 psi) compressive strength, Rmax Thermasheath® is built to withstand nearly 3x this load.

¹Higher compressive strengths are available upon request.



ASCE 7-10 Design Lateral Soil Load Table 3.2-1

ASCE 7-10 Design Lateral Soil Load Table 3.2-1 shows as much as 800 lb/ft² pressure on the insulation at 8' below-grade. At a minimum of 2300 lb/ft² (16 psi) compressive strength, Rmax Thermasheath® is built to withstand nearly 3x this load.

REDUCE ENVIRONMENTAL IMPACT WITH **POLYISO.**

Rmax polyiso utilizes an EPA compliant hydrocarbon-based blowing agent which has zero Ozone Depletion Potential (ODP) and virtually no Global Warming Potential (GWP). Is HFC-, CFC- and HCFC-free.

Rmax polyiso is made with recycled content and is recyclable through reuse.

GLOBAL WARMING POTENTIAL COMPARISON

XPS is made with blowing agents that have a higher Global Warming Potential (GWP) than polyiso.

Hydrofluorocarbon blowing agents (HFCs) have a GWP of 1300. This is over 200 times greater than the blowing agent used in polyiso.



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 rmax.technical@us.sika.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 / PLANT

Central

13524 Welch Road
Dallas, TX 75244
(P) 972-387-4500
(F) 972-387-4673

East

1649 South Batesville Road
Greer, SC 29650
(P) 864-297-1382
(F) 864-234-7548

West

210 Lyon Drive
Fernley, NV 89408
(P) 775-575-4849
(F) 775-575-5035

rmax@rmax.com / www.rmax.com

BELOW-GRADE EXTERIOR
WALL SOLUTION
03-11-2022

