

Polyiso Continuous Insulation  
Below-Grade Exterior Wall & Foundation



ALWAYS **RELIABLE.**  
INCREDIBLY **EFFICIENT.**

**RMAX® BELOW GRADE**  
Insulation and Protection Board





# POLYISO PERFORMS.

## BELOW GRADE EXTERIOR WALLS

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.

## VALUE FROM THE GROUND UP

### Durable Facer, Added Protection

Rmax® Below Grade has a high-strength, water-shedding facer for added foundation protection.

### Achieves Thermal Performance

Polyiso has a high R-value per inch compared to other insulation, allowing polyiso to meet R-value requirements with a thinner profile.

### Resists Water Absorption

Polyiso has a closed-cell & closed matrix foam core preventing water absorption making it a great choice for below grade applications.

### Reduces Condensation Potential

Keeps the wall warm, reducing the potential for condensation on the interior surface of the wall.

### High Compressive Strength

With a 25 to 60 psi strength range, Rmax® polyiso can withstand the pressure of slabs and foundation soil loads.





# LET'S COMPARE INSULATION.

Important Insulation Characteristics for Below-Grade Exterior Wall	<b>POLYISO</b> Polyisocyanurate Continuous Insulation	<b>XPS</b> Extruded Polystyrene Insulation	<b>EPS</b> Expanded Polystyrene Insulation
<b>AGED R10 THICKNESS</b> ASTM C518	1.5"	2.0"	2.5"
<b>WATER ABSORPTION</b> ASTM C272 (MAX)	0.3% (with or without facers)	0.3%	2%
<b>COMPRESSIVE STRENGTH</b> ASTM D1621 (MIN)	25 psi	25 psi	25 psi
<b>ADDITIONAL PROTECTION</b>	Reinforced Polymeric Facers	None	Optional (additional costs)
	<b>R-10 RMAX POLYISO</b> OFFERS THE BEST VALUE		

## 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.

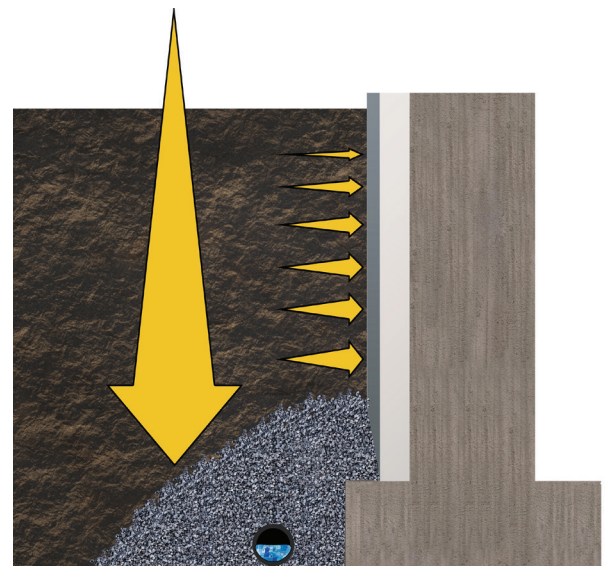
The three load types:

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

**Rmax® Below Grade** insulation can resist pressures from all three load types that may act on the foundation wall.



**BUILT STRONG.**  
**BUILT TO PERFORM.**



Depiction of soil load pressures on the foundation wall.

# REDUCE ENVIRONMENTAL IMPACT WITH POLYISO.

## RMAX POLYISO

uses a blowing agent that has over **95% LESS GWP** than Next Gen XPS.

### HIGHER R-VALUE

allows for less volume of material compared to XPS.

**25% LESS**

truckloads/trips to job site for same square foot of wall

**25% LESS**

volume of material needs to be produced for the same square foot of wall

**25% LESS**

floor space for the same turnover in distribution

FOR MORE Rmax® Below Grade Insulation INFORMATION,  
VISIT [RMAX.COM](http://RMAX.COM)

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