



RMAX[®] BELOW GRADE

INSULATION AND PROTECTION BOARD

**Below-Grade Exterior Wall and
Foundation Applications**

POLYISO PERFORMS.

RMAX[®] BELOW GRADE INSULATION

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

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

Reduces Potential Condensation

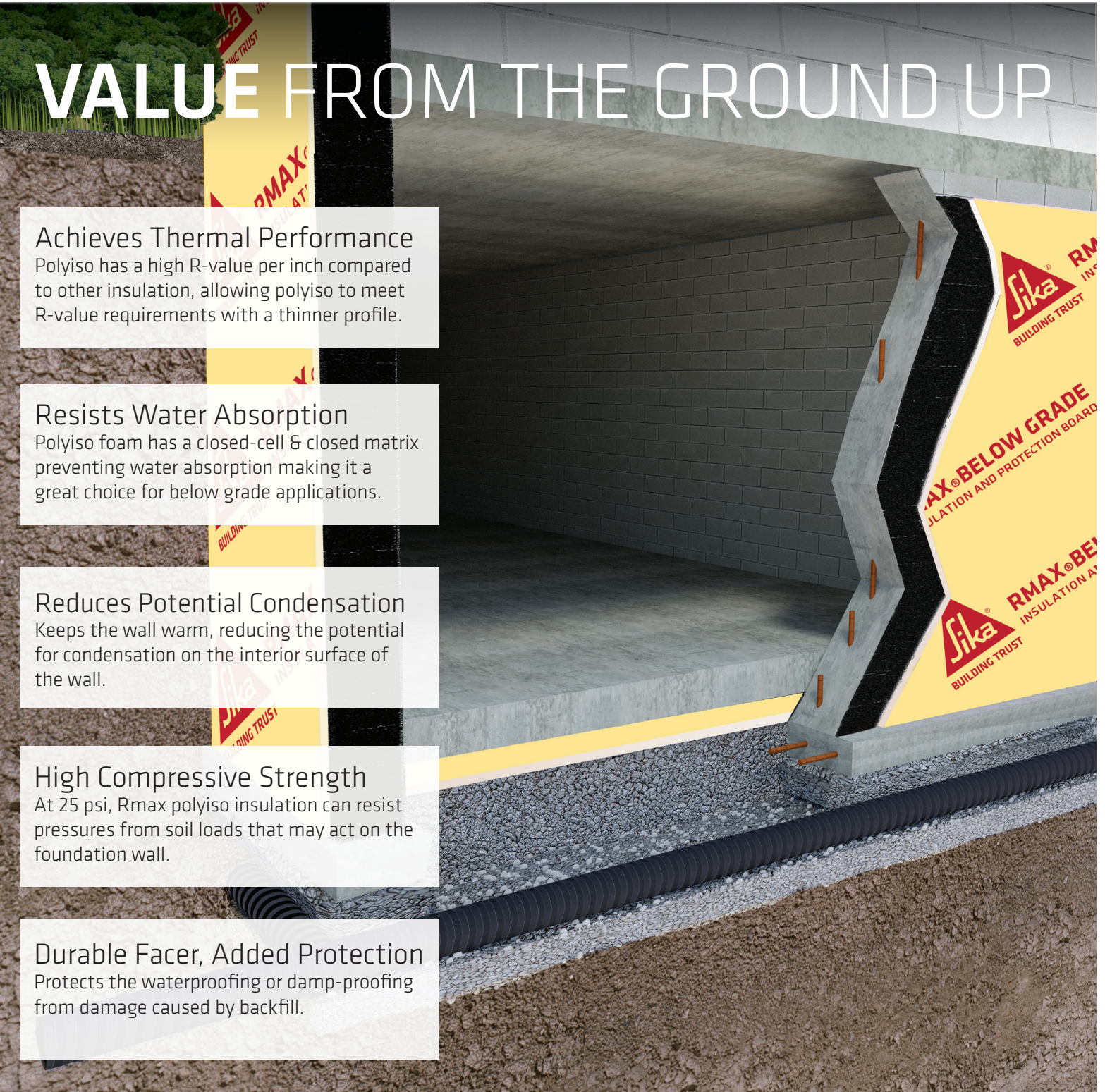
Keeps the wall warm, reducing the potential for condensation on the interior surface of the wall.

High Compressive Strength

At 25 psi, Rmax polyiso insulation can resist pressures from soil loads that may act on the foundation wall.

Durable Facer, Added Protection

Protects the waterproofing or damp-proofing from damage caused by backfill.



LET'S COMPARE INSULATION.

Important Insulation Characteristics for Below-Grade Exterior Wall	POLYISO Polyisocyanurate Continuous Insulation	XPS Extruded Polystyrene Insulation	EPS Expanded Polystyrene Insulation
AGED R10 THICKNESS ASTM C518	1.5"	2.0"	2.5"
WATER ABSORPTION ASTM C272 (MAX)	0.3% (with or without facers)	0.3%	2%
COMPRESSIVE STRENGTH ASTM D1621 (MIN)	25 psi	25 psi	25 psi
FOAM PROTECTION	Reinforced Aluminum Facers	None	Optional (Additional Costs)

R-10 RMAX POLYISO 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.

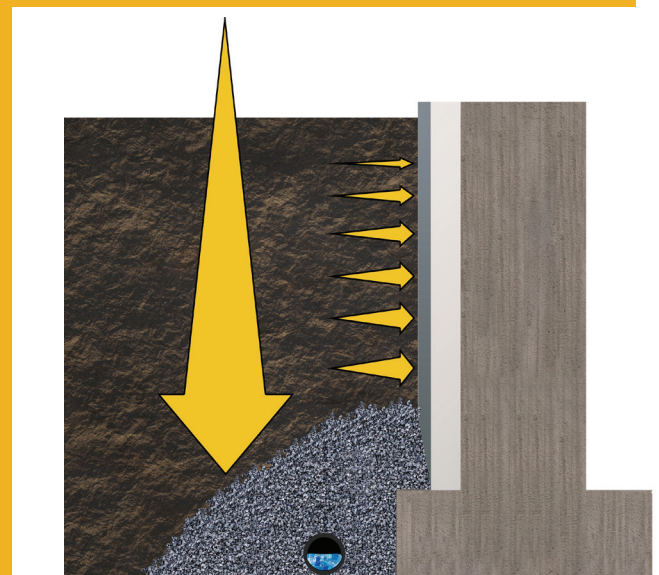
The three load types:

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 PREFORM.**



Depiction of soil load pressures on the foundation wall.

YELLOW IS THE NEW GREEN

REDUCE
ENVIRONMENTAL
IMPACT WITH
POLYISO.

OVER 90% LESS
GWP Blowing Agent than
Next Gen XPS.
INSULATE WITH **POLYISO.**

HIGHER R-VALUE

allows for less volume of material compared to XPS.

25% FEWER

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

25% LESS

volume of material
needs to be produced
for the same sq. ft of
wall

25% LESS

floor space for the
same turnover in
distribution/use of
floor space

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