

polyiso continuous insulation

PROJECT PROFILE

RMAX® BELOW GRADE

Exterior Wall & Foundation Insulation

RYAN HOMES, RIVER RUN

Berlin, Maryland



Project Description

Ryan Homes, a top homebuilder in the nation, offers a range of single-family homes, townhomes, and condominiums with different design options. Ryan Homes communities feature amenities such as parks, walking trails, community centers, and recreational facilities.

Goal

Ryan Homes, builds every house as if it were their own, with the utmost care and commitment to craftsmanship, quality and safety. They look for the same high standards when choosing insulation for below-grade walls and foundation.

Solution

To match their high standards, Ryan Homes chose Rmax® polyiso continuous insulation to insulate the below-grade exterior concrete walls because it delivers a high R-value per inch, excellent moisture resistance, and superior protection.

Also, the installation method is the same as installing XPS, with less material and more protection. Zero time used for application install training, keeping the project on track.

Installer

Atlantic Building Associates

Distributor

Form Services



Below-Grade Wall Construction

Rmax® Below Grade Insulation & Protection Board

Assembly Details // Exterior Wall

1.50" Single family home with 2' of our product installed vertically around the interior of the perimeter and 4' installed horizontally around the interior with the slab poured on top.



Continuous Insulation for Below-Grade Exterior Walls

Rmax[®] Below Grade is an energy-efficient thermal insulation and protection board composed of a polyisocyanurate (polyiso) foam core bonded to reinforced polymeric facers on each side. Polyiso's closed-cell and closed matrix foam core, along with its durable facers, create a multi-layered defense against water absorption and protection during backfill making it a great choice for below-grade applications.

DURABLE FACER, ADDED PROTECTION

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

ACHIEVES THERMAL PERFORMANCE

Higher R-value per inch compared to XPS & other insulation. Rmax[®] Below Grade meets requirements with a thinner profile.

RESISTS WATER ABSORPTION

The closed-cell & closed matrix of Rmax[®] Below Grade foam board meets water absorption requirements, with less than 0.3% absorption.

HIGH COMPRESSIVE STRENGTH

At 25 psi, Rmax[®] Below Grade resists pressures from soil loads that act on the foundation wall, while maintaining superior thermal performance.

