The GREEN construction magazine for CONTRACTORS
FROM THE PUBLISHER OF RURAL BUILDER AND METAL ROOFING MAGAZINE

3 EDITOR’S LOG
5 SUPPLIER NEWS
7 INDUSTRY NEWS
19 NEW PRODUCTS

HOME FOR A HERO
U.S. veteran’s eco-friendly house

SOLAR PANEL
FIRE SAFETY

CONTENTS
PORTLAND COMMUNITY COLLEGE NEWBERG CENTER TO USE PREMIER SIPS

This fall, Portland Community College is scheduled to open a new, energy-efficient educational facility in Newberg, Oregon, built with structural insulated panels from Premier Building Systems.

The SIPs will contribute to a tight, well-insulated building envelope - a factor that the project architects report is critical for the building’s net-zero energy design.

In addition to 7.25-inch core SIP walls and 11.25-inch core SIP roof, the building plans call for 7,000 square feet of rooftop solar panels for electricity, radiant concrete floors for heating and cooling, and systems to take advantage of natural ventilation and daylight.

PROJECT SUMMARY

PROJECT: Portland Community College Newberg Center, Newberg, Ore.

SIZE: 12,000 sq. ft.

SCHEDULED COMPLETION: Autumn 2011

ARCHITECT: Hennebery Eddy Architects
WWW.HENNEBERYEDDY.COM, Portland, Ore.

CONTRACTORS: R&H Construction WWW.RHCONST.COM and Colas Construction WWW.COLASCONSTRUCTION.COM/HOME, Portland, Ore.


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R-Control® Structural Insulated Panels
ACH Foam Technologies provided over one million board feet of Foam Control EPS Roof Insulation for the Walgreens 440,000 square feet distribution facility in Windsor, Wis., in a recent re-roofing project.

The first phase of re-roofing was in October-November 2010, with completion estimated for this spring.

Walgreens wanted a high-performance roof that would provide better insulation properties and energy savings. ACH Foam Technologies provided 1,175,625 Board Feet of 25psi Type IX Foam-Control EPS Angle Cut Flute Filler Panels 3 inches x 24 inches x 96 inches.

The distribution center’s original roof, built in 1980, was standing seam steel. “The original insulation consisted of batt insulation installed on the bottom side of the metal roof panel, totaling approximately 9.5 R,” said Guy Snowden, Principal of RRK Associates, Ltd., the commercial/industrial roof consulting firm on the project. According to Snowden, the new roof system was selected for several factors:

- Service life and durability.
- Minimal weight gain to existing structure due to low slope of existing roof and anticipated snow loads.
- Ability to add additional high R value insulation with minimum height gain due to existing curb and penetration heights.
- Cost.

“The new roof membrane is a fully adhered, .060 mil. Rubbergard EPDM, installed over a base layer of 3” Foam Control EPS Roof Insulation formed to the existing metal panel profile with a cover board of Iso-gard HD insulation. New insulation added 16.5 R to the roof for a total of 26 R,” said Snowden.