



# Rural Builder **GREEN**

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The **GREEN** construction  
magazine for **CONTRACTORS**

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*LEFT: Keystone Tennis Townhome prior to June remodel.*

## Structural Insulated Panels Save Money

### Increase Energy Efficiency for Keystone Remodel



CH Foam Technologies' R-Control Structural Insulated Panels were specified to increase energy efficiency and cost savings for the Keystone, Colo., Tennis Townhomes remodel which began in June.

Last summer, the homeowners association of the Keystone

Tennis Townhomes voted to remodel the complex's 14 buildings to increase their energy efficiency and property value. The project included replacing the townhome roofs, siding and windows to increase the energy efficiency of the buildings. The original roof insulation provided only an R-19 insulation value, which was increased to an R-38 by using ACH Foam's R-Control SIPs.

"The R-Control SIPs and the Foam-Control Nailbase products allowed our customer to achieve the desired increase in R-value and helped us to reduce our labor bid on a competitive project," stated Dave Detro, co-owner of Precision Panel Colorado.

The old roofing material was scraped off, exposing the original decking. New felt paper was installed, and then the SIPs were screwed into place. The perimeter and overhang edges of the buildings had 6-1/2-inch SIPs installed, while the inner area of the roof received 6-1/2-inch nail-base roof panels. Nailbase roof panels differ from SIPs in that oriented strand board is laminated to only one side of the expanded polystyrene with nailbase, whereas SIPs are laminated on both sides.

Although original installation time was projected to be 10 weeks, installation was completed in half that time — 52,300 total square feet

*Structural Insulated Panels provided a continuous 12-inch overhang along the roof's edge.*





*R-Control Structural Insulated Panels were installed along the perimeter of the building while Foam-Control Nailbase Panels covered the center of the roof.*

of both structural insulated and nailbase panels were installed in 5 weeks, saving the remodel substantial time and money.

“When our company was contacted to help design a more efficient roof for the owners of Tennis Townhomes, nailbase was the most cost effective way to go. We were able to leave the existing framing and increase their insulation from an R-19 to an R-38. By using SIPs at the perimeter of the roof, we were able to give our client a continuous 12” overhang, which is something the association did not have before,” explained Blake Nudell, senior project manager of Travis Construction. Nudell says utilizing SIPs also solved a weather-related problem. “Ice dams

have been an ongoing problem with this association. With the new insulated roof, we are anticipating that this will no longer be an issue.”

R-Control Structural Insulated Panels have been used for more than 30 years in residential and commercial projects for their high R-value, superior strength and quick and easy installation. ACH Foam Technologies has been an industry leader in environmentally friendly EPS manufacturing for more four decades, providing products for construction, geo-technical, packaging, and industrial applications. With locations throughout the U.S., ACH is positioned to offer convenient, valuable and complete solutions for its customers. 🌱