Hy-Vee Grocery

Application

A dual-layer insulation system was developed using two different ACH Foam Technologies’ roof insulation products on a big box retail building rehabilitation in Madison, Wisconsin.

Project Details

When Hy-Vee acquired a former K-Mart in Madison, Wisconsin for reuse as a new grocery store, engineers understood the building envelope would need significant improvements to perform to the company’s energy expectations for a facility of its size.

One high-performance solution used in the roof rehabilitation was a dual-layer insulation system using two different ACH Foam Technologies’ roof insulation products. A 3.3” layer of ACH Foam Technologies’ Foam-Control® 100 roof insulation was applied directly to the metal roof deck. The base layer was then topped by a 1.5” layer of Foam-Control® 130 Composite Roof Insulation which was covered with a 45-millimeter mechanically fastened TPO membrane, resulting in a system R-value of 20.

Hy-Vee Grocery
• Madison, WI
• Spring 2009
• Foam-Control® 100 Roof Insulation and Foam-Control® 130 Composite Roof Insulation
• 209,952 Board Feet

Contractors
Hy-Vee/Weitz Construction
Northern Metal Roofing Inc.