Cover Boards Eliminated On Metal Roof Deck

Green-minded managers of the Patterson Dental building in Dinuba, CA, had 160,000 sq. ft. of SecureTherm composite roof insulation installed on the building's metal roof deck in the summer of 2008. Building managers, hoping to receive a rebate from Pacific Gas & Electric, had increased their roof-insulation specification from R-30 to R-38 to make the building more energy efficient. Roofing contractor Peters Roofing, Sanger, CA, saved significant labor costs by using SecureTherm insulation.

SecureTherm, supplied by ACH Foam Technologies, Denver, eliminates the need for cover boards in roof applications. The high-performance, lightweight, and water-resistant expanded polystyrene (EPS) roof insulation has a factory-applied, durable fiberglass facer that meets UL Class A requirements. Because the facer is factory applied to the EPS insulation, there is no need for a coverboard in membrane applications. According to Jim Nelson of Peters Roofing, the change from R-30 to the specified R-38 made polyisocyanurate too expensive for the project. "We chose SecureTherm because it met the R-38 specification, and brought the project's budget back on track," explained Nelson. "The two-layer system, consisting of 8-inch-thick Type I EPS and a 1-inch-thick Type IX SecureTherm cap, was mechanically fastened to a metal roof deck beneath a PVC membrane."

According to Nelson, using SecureTherm also saved installation labor by eliminating the need for a cover board that is used in many membrane applications. This saved labor time and cost because less material handling was involved in the process.

"We installed one layer of EPS insulation followed by SecureTherm, which included the fiberglass-facer cover board, rather than having to install two layers of EPS plus a third layer of cover board," explained Nelson. The product is a popular roofing solution among architects and contractors for low-sloped applications, employing all mechanically fastened or ballasted single-ply and modified bitumen systems. SecureTherm has a stable R-value and is available in a variety of thicknesses.

For more information about composite roof insulation from ACH Foam Technologies, circle 10 or visit www.cbpmagazine.com