

Retrofit with metal over metal

Edwards Roofing employs Roof Huggers with Petersen Aluminum panels for successful re-roofing project on air force base

Leaks are a pretty good indicator you have a problem. Eglin Air Force Base Building #253 was erected with metal walls and a metal roof. The trapezoidal standing seam metal roof sloped to parapets separated by an internal gutter. After 25 years, leaks on all four sides called for the replacement of walls as well as the roof.

“It wasn’t an efficient design,” says Steve Miller of Edwards Roofing Company of Pensacola, Fla. “It seems Eglin is always re-roofing a lot of roofs. It’s a big base.”

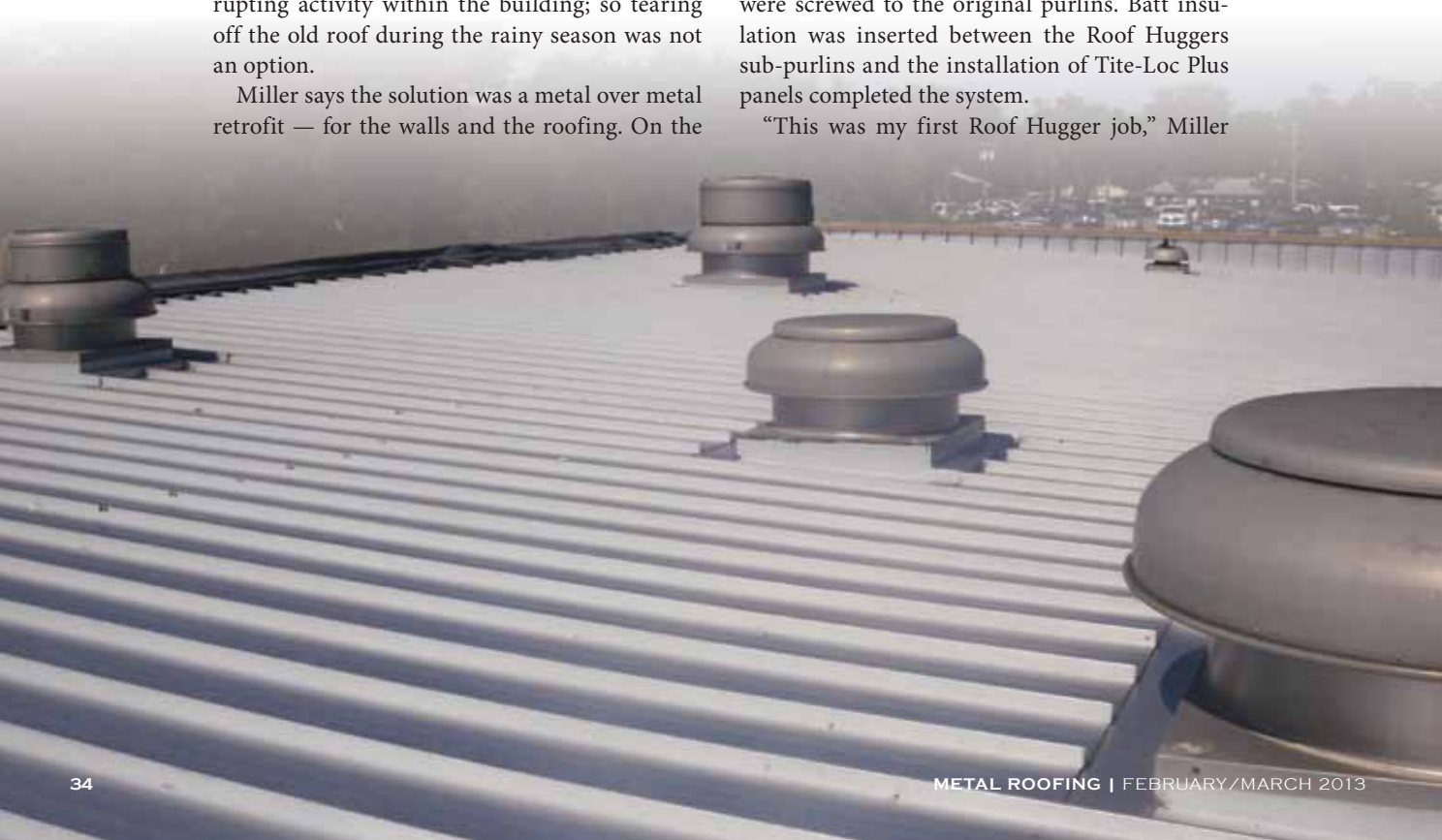
The project had to be completed without interrupting activity within the building; so tearing off the old roof during the rainy season was not an option.

Miller says the solution was a metal over metal retrofit — for the walls and the roofing. On the

walls, Edwards Roofing installed a generic 7/8-inch hat track to secure metal panels. The metal panels for the walls as well as the roofing were Petersen Aluminum’s Tite-Loc Plus standing seam panels. The 24-gauge unpainted Galvalume Plus panels were 16 inches wide and seamed 180 degrees.

Because of the requirements to withstand 140 mph winds, the retrofit roof had to be engineered. Roof Huggers, a retrofit sub-purlin system certified to increase existing purlin strength, were prescribed for the retrofit roofing project. Roofer Huggers, engineered for the project to meet the required wind loads for Eglin Air Force Base, were screwed to the original purlins. Batt insulation was inserted between the Roof Huggers sub-purlins and the installation of Tite-Loc Plus panels completed the system.

“This was my first Roof Hugger job,” Miller





Edwards Roofing completed this retrofit roofing project at Eglin Air Force Base in Florida, employing the Roof Hugger sub-purlin. The Roof Huggers, engineered for the project to meet the required wind loads on base, were screwed to the original purlins. Insulation was installed between the Roof Huggers and standing seam metal roofing from Petersen Aluminum topped the retrofit. (Edwards Roofing photos)



says. "It went well, it's a very good system and no one is calling us back to fix it. It works like a puzzle, it's pretty easy to work with."

The biggest challenge during the project was battling rain showers. "We'd have to finish the roof as we moved along," Miller says. "We'd screw down the Roof Hugger, lay down the batt insulation and then cover it up right away with the roofing panels. We had to keep ahead of the rain."

The entire project, about 10,000 square feet of wall and roofing panels, took a 5-6 man crew about six months to complete. **MR**

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