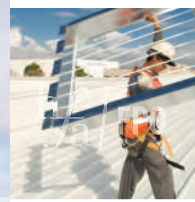


Case Study

U.S. ARMY RESERVE, LOS ANGELES, CA



Daylighting Helps U.S. Army Reserve Reduce Energy Costs By 35%

Helping the United States Army Reserve (USARC) meet the federal mandate to reduce energy consumption was Tremco's primary goal at the 63rd Regional Support Center in Bell, California. Further compounding the challenge, the Center had been used both as office space for military personnel, as well as an equipment warehouse. Occupants of the Center had long complained of excessive roof leaks and extreme temperature conditions.

A Comprehensive Solution That Stops Leaks And Saves Energy

Following a roof inspection, Tremco provided a detailed report with both short and long-term priorities and budgets for the 84,000 square foot metal roof. During inspection, it was learned that the warehouse operated on 128 costly metal halide lights. This produced a significant amount of heat and contributed to the extreme interior temperature, especially during the summer months.

The first step toward a sustainable solution was the application of Tremco's white Tremlite® Coating system, which addressed both the roof leaks and reduced interior temperatures. Next, Tremco and Natural Lighting Co. created a daylighting solution that employed skylights to capture natural light and diffuse it over a larger surface area. The system used the sun's light to illuminate the building and eliminated the need for the halide lights. Additionally, daylighting emits zero heat which, in turn, reduces the building's interior temperature. The result? A reduction in both energy use and a more comfortable interior for occupants.



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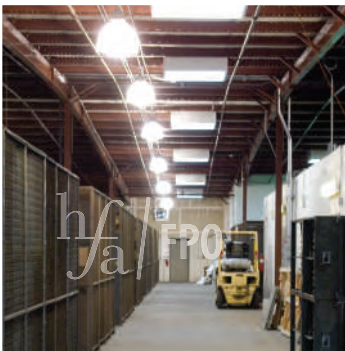
“ In reviewing our electrical costs for the meter that feeds Building 331 (Bell Warehouse), we found that our usage from August 2007 to August 2008 declined approximately 35%. I am quite certain that most of the savings is related to the fact that we are not using the halide lights in the warehouse. The daylights are working better than we anticipated and we are looking forward to many years of savings. ” – Kent Jackson, OPS Chief

Single-Source Project Management Ensures Speed And Quality Installation

With the on-site supervision of Tremco's subsidiary, Weatherproofing Technologies, Inc. (WTI), 121 daylights were installed in a grid pattern across the 63rd Regional Command's roof – making it the first major daylighting project for the USARC in the western United States. As the general contractor on the project, WTI was responsible for ensuring the installation was completed on-time and within the USARC budget. Tremco's single-source solution brought together a team of experts, including a daylight manufacturer, lighting consultants, structural engineers and roofing contractors.



Long-term Maintenance With Guaranteed Performance



Both the USARC roof and daylighting units are guaranteed under the Tremco Performance Warranty™, which provides yearly inspections and scheduled maintenance and, ultimately, assumes both performance and financial risk for the systems. And because preventive maintenance is a core value under the Tremco system, Tremco will continue to maximize the performance of the Bell Warehouse roof system and will remain committed to reducing system life-cycle costs.



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