

West Roofing Systems: EITS at Forward Operating Bases - Iraq

Installer: **Mike West, Brian Chavalia, Skip Kline, Greg Butchko, Frank Kriews, Greg Haas, Butch Kline, Kurt West, Scott Warner, Stanley Davis Jr., Chris Neff, Tom Buchanan, Mark Nagy**

Location: **Iraq**

Type of Job: **Exterior Insulation of Temporary Structures (EITS)**

Square Footage of Job: **6,300,000 square feet**

Equipment Used: **listed below**

Number of people needed for the Job: **28**

Number of days required by the Job: **10 months**

Special Requirements: **7 days training on working with the military**

Foam and coatings used: **Honeywell TERRAStrong 2# Foam and Acrylic Coating**



Project Description: West Roofing Systems, Inc. insulated 6,300,000 square feet during 2008-2009 on over 2,000 structures at 20 Forward Operating Bases (FOB) throughout Iraq during Operation Iraqi Freedom July 2008 and November 2009. The contract required the installation of 2 of Honeywell TERRAStrong 2 pound density foam utilizing Honeywell Ennovate 3000 with 16 mils of Honeywell TERRAStrong Acrylic Coating applied in two coats. West was required to build 10 fully-equipped spray foam teams ready to ship overseas within 15 working days. A total of 10 foam team trailers were built with 2 additional trailers to carry all of the support equipment required, including, ladders, work platforms, spare parts, safety equipment, PPE and air line. (5) Wacker 58KW tow behind generators and (5) Sullivan 210cfm tow behind air compressors were required to power the foam teams. (2) 28 Genie all-terrain telescoping boom forklifts were sent for material handling and man lifts. All of West personnel and equipment was in-country at Victory Base, Baghdad, Iraq in July ready to begin spray operations. Initially all 10 teams worked as one group at TQ base able to reach all structures within an 800 radius. After completing the initial 1,246,700 square feet at TQ base, the large foam group was split into two groups and mobilized to separate bases. The crews had to contend with day time temperatures reaching up to 142F and as low as 40F while fighting sandstorms limiting visibility to 20 and dirt devils would occur with little or no advanced notice. The crews lived in military quarters and ate with the soldiers. In addition to extreme environmental conditions, the crews had to contend with enemy fire. The structures, locations and types of construction were numerous in styles creating unique problems at almost every location.

Benefits of using Foam: energy savings of 40 to 75 percent. reduces the military's dependence on fuel for power generation reducing the number of road-bound convoys, saving lives, and significantly increasing the comfort level of military personnel. Force Multiplier allowing the soldiers to sleep in a controlled, quieter and comfortable environment; provided dust mitigation significantly reducing the infiltration of dust to occupied areas; provided structural reinforcement to aged/damaged structures and limited collateral damage experienced by blast mitigation preventing the projectiles from entering the occupied areas in many instances.



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