

Project Profile



D. C. Taylor Co. completes complex roofing project.



Grain Facility

40,000 square foot rain roof
Tacoma, Washington

This rain roof allows soybeans and other grain to be loaded into ships during rainy weather.

Problem

A grain export company had constructed a 40,000-square-foot "Rain Roof" over their dock to allow loading of soybeans and grain into ships during rainy weather.

The system worked well initially, but after some time, leaks developed in the roof. Knowing that reroofing would require a sophisticated and experienced contractor, the company contacted D. C. Taylor Co.

Solution

D. C. Taylor Co. installed a layer of 1" isocyanurate insulation, ½" dens deck barrier board, and 60-mil GAF PVC membrane over the existing metal deck. This simple plan was complicated by a number of factors such as design, permitting, scheduling, loading, and safety.

D. C. Taylor Co. addressed each barrier and completed the project three days ahead of schedule. A manufacturer inspection gave the job a perfect score.

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Material Loading

To load materials safely without damaging the roof, the weight of the pallets had to be evenly distributed. A helicopter was the most efficient and safest method to load materials. The materials were laid out on the ground in the exact manner they would be placed on the roof. A total of 142 helicopter lifts were required.

Safety

The roof deck is 150 feet in the air, in an area that is prone to high winds. Safety was essential for this project. The safety director at D. C. Taylor Co. worked in coordination with the grain export company to develop a safety plan that included 100 percent fall protection arrest while working outside the perimeter flags, which were placed 10 feet from the edge of the roof. Precautions were also taken to prevent materials from rolling off the edge of the roof and into the water below. The project was completed with no incidents or accidents.

Scheduling

The project was scheduled during the annual maintenance shutdown of the facility (19 days). The roofing crews travelled to the site Labor Day weekend, set up the safety and fall protection measures, and began receiving materials that Tuesday. As noted, the project was completed three days ahead of schedule.

Permits

Unusual permits were required for this project due to its location over the water. D. C. Taylor Co. researched all necessary prerequisites well before the project was scheduled to start.



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