



Hangar uses super-sized bi-fold door

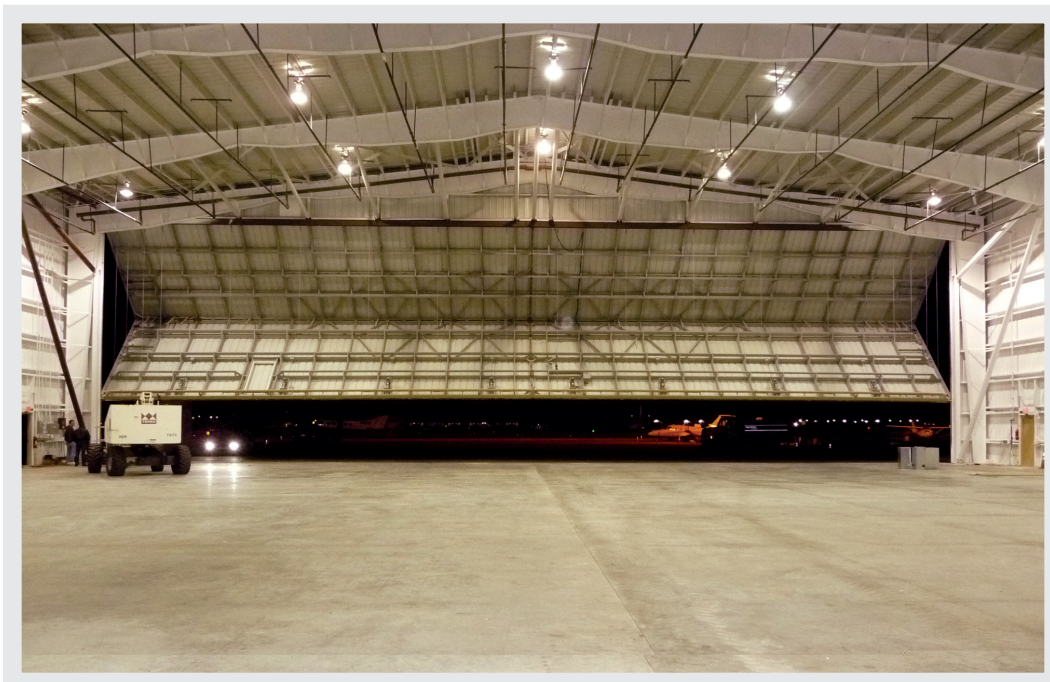
Well Bilt Industries, Williston, Fla., supplied a 122 2/3- by 34-foot (37- by 10-m) door with a 150-mph wind load for the **west common hangar** for Falcon Trust Air, a top-ranked fixed base operator, at **Tamiami Kendall Airport in Miami**.

The Super Bi-fold door was constructed using 8- by 2- by 1/4-inch (203- by 51- by 6-mm), 8- by 2- by 3/16-inch (5-mm) and 8- by 4- by 3/8-inch (203- by 102- by 10-mm) rectangular steel tubes, in addition to 8- by 3/8-inch HRS plate. The door is powered by eight 2-horsepower units with a gear reduction of 240:1. The door also features an auto-lock system, safety edge and warning bell, as well as a keyed lockout control panel and fused safety disconnect.

Well Bilt Industries custom fabricates all door hardware for its door systems, and for this project, all hardware was super-sized by 200 to 300 percent to accommodate the door's size, weight, and vertical and horizontal reactions. The Dade County-approved Super Bi-fold door was delivered in May 2008, and the project was completed later that year.

Dean Steel Buildings Inc., Fort Myers, Fla., manufactured the 32,726-square-foot (3,040-m²) hangar with 46-foot (14-m) eave heights. The project included 8,000-psi Rib-12 Galvalume panels with 1 1/4-foot- (0.4-m-) deep ribs 12 inches (305 mm) on-center with two 3/16-inch- (5-mm-) deep intermediate stiffeners for 36-inch (914-mm) net coverage. The 24-gauge metal panels have purlin-bearing legs and are Dade County approved.

The project engineer was Infinity Engineering, Miami, and the general contractor was Everest Builders Inc., Miami.



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