

Stratolaunch Hangar



LOCATION

Mojave, CA

SIZE

Hangar 103,256 sf
Mfg. Building, 88,000 sf

WALL SYSTEM

R-Panel

ROOF SYSTEM

Standing Seam 360

The largest aircraft ever built is housed in this 103,256 sf hangar, adjacent to an 88,000 sf manufacturing and assembly facility, where the unique aircraft was built. Our BIM software was a valuable tool throughout the coordinated design development, fabrication, delivery and erection sequence for the 1,500 tons of fabricated steel that arrived in 88 truckloads.

The building is configured as an inverted T-footprint with the 148' x 462' dimension on the larger entry side established by the aircraft's 385-foot wingspan. A contiguous 135' x 212' extension at one side accommodates the tail of the twin-bodied aircraft. A CBC standing seam 360 roof system extends from the 57' eave height in a double-slope condition of 2 1/4 inches on 12" inches that steps to a 1/2-inch on 12 inches double slope, 30 feet below the 100' high ridge. The wall system consists of twelve 18' ft. wide truss columns with I-beam diagonal bracing that create six frame lines. The rafter trusses were fabricated as 40' to 50' long by 14' to 17' wide bolted sections to create the roof support assembly. This building was engineered to sustain a 100-mph wind load. The overhead door ranks as the largest supplied by Megadoor on a civilian hangar in North America. It is skinned with a translucent PVC-coated polyester fabric with UV inhibitors and fire retardants that emit 10 percent of the ambient daylight into the interior. The tight door seals can resist the notorious windblown desert dust.