

Aviation Hangar: Midcoast Aviation

In December of 2007, Mahaffey was asked to provide a semi-permanent hangar structure for Midcoast Aviation, a Jet Aviation Company, in Downtown St. Louis, Missouri. Midcoast Aviation provides an array of maintenance, repair, and overhaul (MRO) services, including sophisticated structural repairs, avionics upgrades and repairs, interior design and refurbishment, exterior design and painting, and component and accessory service.

Midcoast was looking for a way to house several Bombardier jets, including three Global 5000s, one CL-850, and nine Challenger 605s, while performing comprehensive MRO services. The problem? A shortage of hangar space.



Bombardier jets inside hangar

Midcoast was already in the process of building a large, permanent hangar on-site. However, it was months from completion, and they were in need of an immediate solution.

Mike Mueller called Mahaffey to install a portable hangar that would provide adequate space for the jets until construction for the permanent hangar was complete. With over \$400 million worth of aircrafts needing to be covered, it was imperative that the structure offered sufficient coverage and could sustain any possible weather condition.

In January of 2008, Mahaffey erected a 164' x 282' hangar, with 13' eaves and a peak height of 40' on semi-level tarmac. Insulated steel panels were installed on the sides, and a customized hangar door was constructed to allow for the Bombardier jets to be moved in and out with ease. Four 3 million BTU propane heaters were used to keep the interior heated during the harsh winter months, and the structure was engineered to meet the county's building codes.



Hangar door

Mahaffey's solution significantly increased the productivity of mechanics, repair technicians, and several other Midcoast employees. The worker-friendly environment has been so well received, Midcoast intends on keeping the structure as weather protection for routine FBO services.