

Luke AFB Military Hangar



LOCATION
Glendale, AZ

SIZE
24,000 sf

ROOF SYSTEM
Loc Seam 360

BUILDING END-USE
Maintenance Hangar

The F-35 Maintenance Hangar, located at Luke Air Force Base, is part of the overall Joint Strike Fighter Program complex and is used to facilitate maintenance operations for the F-35 Lightning II jets. The 24,000 sf facility features a drive-thru and four-position aircraft maintenance bay for F-35 aircraft. Additional spaces include a tool room, break room, toilet rooms, and a janitor closet. The 10' wide hangar door support structure was designed without using an additional rigid frame.

For safety reasons, all columns adjacent to the exterior sliding hangar doors were eliminated. The hangar door support structure framing and its roof framing are all supported off the end wall main frame with vertical stubs braced back through pipe strut kickers. The stubs and pipe struts also double as the supports for crane beams and two 5-ton underhung crane systems.