

Infrastructure



**West Virginia Air National Guard C-5 Corrosion Control Hangar
Martinsburg, West Virginia**

Aircraft Hangars

Carpenter Wright Engineers provided the structural design for the approximately 80,000 square foot C-5 Corrosion Control Hangar facility. The corrosion control hangar facility consists of a high hangar bay for a C-5 aircraft and a lower bay for maintenance shops.

The high bay structure includes articulated long-span steel truss frames with tapered building columns. The roof steps up over the center section of the aircraft to maintain the required clearances and have a curved roof shape above the tail and fuselage area of the C-5 aircraft. The frames at the front of the hangar are designed to support a fabric type hangar door. The typical span of the steel truss frames is 296 feet.



Customer: *Covenant Steel*

Contractor: *Burns & McDonnell*

CWE Design Offices:

Nashville
Knoxville