



RAAF AIRCRAFT HANGAR, AUSTRALIA

CASE STUDY

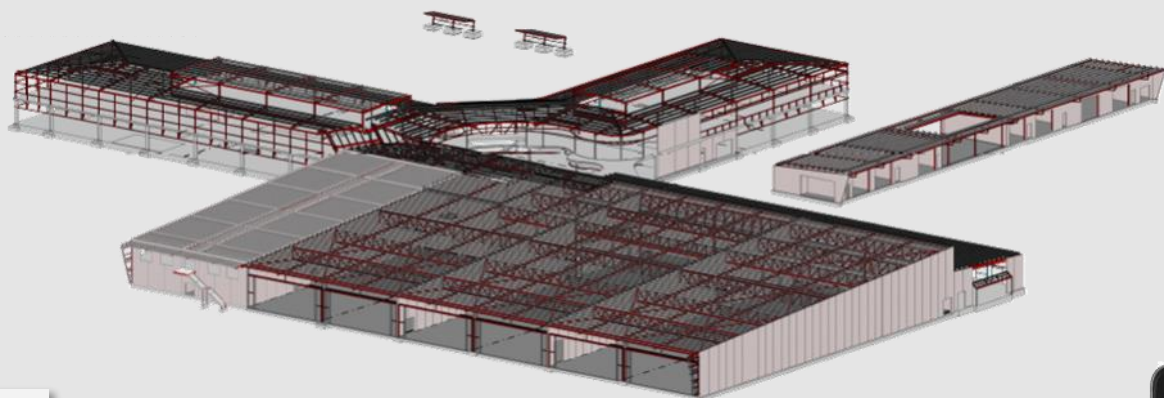
ESC Steel Structures was contracted by one of its regional partners CASA Engineering in Australia to produce over 500 metric tons of structural steel prefabricated building system for an aircraft hangar to be used for the AIR5428 Pilot Training Systems Centre in East Sales, Victoria, Australia.

This project is part of the overall investment to deliver facilities, infrastructure and airfield works for the implementation of the PC-21 aircraft which is aimed to be used as part of the Pilot Training System of the Australian Department of Defence. Up to 27 training aircraft could be parked inside the hangar. The structure was designed to have sufficient structural capacity for both wind and earthquake loadings.

The main project standard for the steel pre-engineering building structure was Australian Standard AS 4100 for materials, construction, fabrication and erection. The welds also required different extents of visual, radiographic and magnetic particle inspection as per AS 1554.1. The steel grades used for the sections and plates varied between Grade 250 and Grade 300. All components delivered were galvanized for corrosion protection. The project required all components to be annealed to over 650°C before the hot-dip galvanizing with a final coating mass of over 600g/m².

The aircraft hangar was fabricated in CASA workshops in Australia which is part of the ESC Group.

ESC successfully completed the full steel fabrication in May 2017.



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