



Sprung Structures

A Better Way To Build

Rapid Construction. Design Flexibility. Performance & Durability. Lower Overall Costs.



Marshall Aerospace Cambridge Airport, England

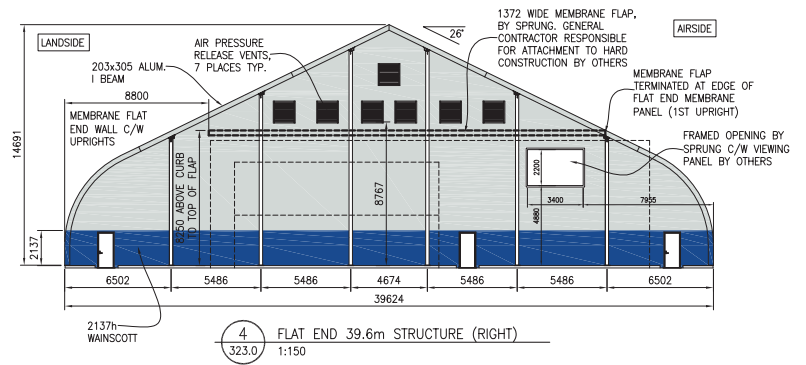
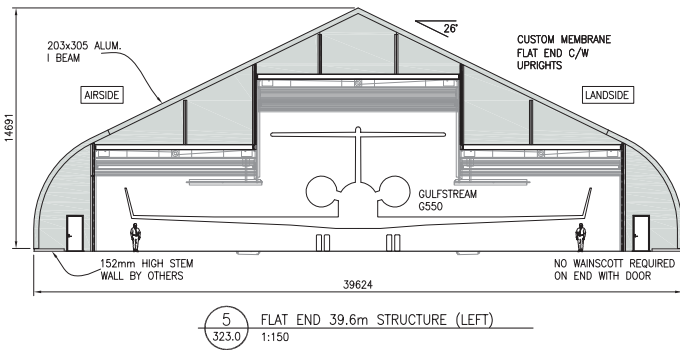
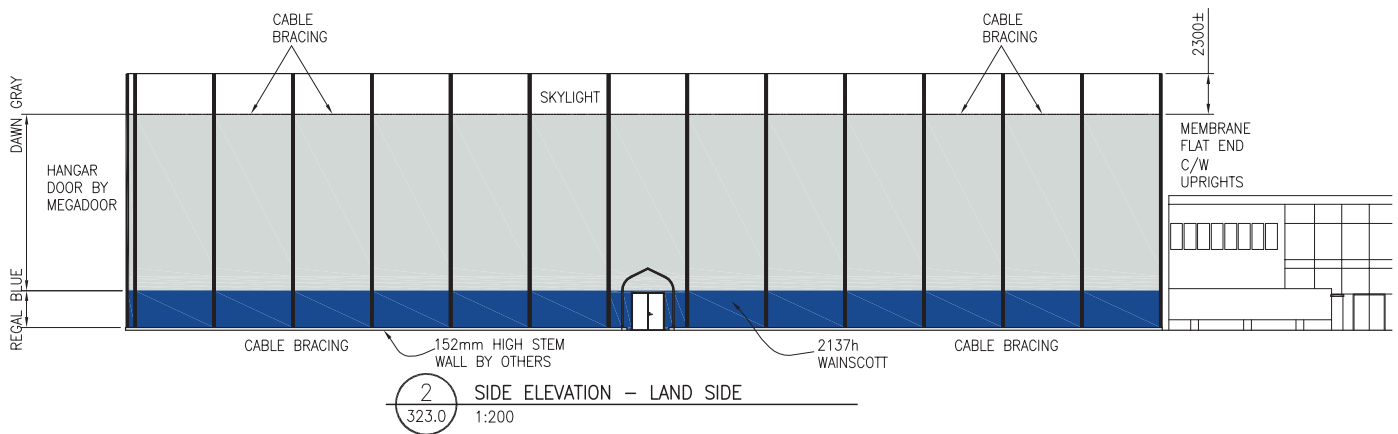
PROJECT DESCRIPTION:

Approaching 80 years in aircraft engineering, Marshall Aerospace is one of Europe's leading privately-owned aerospace companies.

Marshall Aerospace needed to add additional hanger space however at the same time needed to reduce capital expenditures and lower operating costs.

Rather than build a conventional hanger, Marshalls Aerospace decided it needed a new approach. A design that could provide greater operational flexibility. The new hanger needed to be relocatable, energy efficient, rapidly built, and modular in design so that it could be reconfigured in the future.

After carefully considering a number of building alternatives, Marshall Aerospace selected Sprung Instant Structures to supply a 40m x 60m (130' x 200') insulated structure complete with Dupont Tedlar Dawn Gray and Regal Blue architectural membrane and a state of the art Megadoor system.





“Operating in a highly regulated industry Marshall Aerospace is one of Europe’s leading privately owned aerospace companies. We deliver world-class services through our 1,800 highly trained personnel and an exceptional range of facilities housed in 1.2 million sq ft of hangar space. When deciding to build new facilities we set very high expectations and carried out an extensive market search to find the ideal supplier.

Sprung was the only supplier to tick all the boxes and they delivered everything they promised - a superb hangar, built on time and on budget with all of the benefits expected”

Marshall Aerospace





ALLAN MCGREAL AND GRAHAM FROBISHER:

“This project had one critical driver – certainty – would it be delivered on time, on budget and as expected – and it was. What amazed us was the speed of construction, quality of finish and the lack of problems during the build. As an aviation business we know good engineering when we see it and it is clear to us the Sprung product is based on world-class engineering and intelligent design. All of that cleverness is then supported by Sprung’s Delivery Partners in the UK, Freespan, whose project management was surefooted and confident. It is unusual to see a construction project delivered with no problems but Freespan made sure that we, as the client, did not have to worry about anything.”

Allan McGreal
Marshall Aerospace





Location

Cambridge Airport

Project

World-class Maintenance Hangar

Client

Marshall Aerospace

Project Description

High specification, semi-permanent facility 130' x 200' (40m by 60m), integrated 3-section 31m wide Crawford Megadoor, fully insulated and equipped with highly energy efficient HVAC system, natural skylight reduces lighting costs during daylight hours, hangar exceeds Part L2A Regulations, u-value 0.18 (wall), air permeability rating 4.0

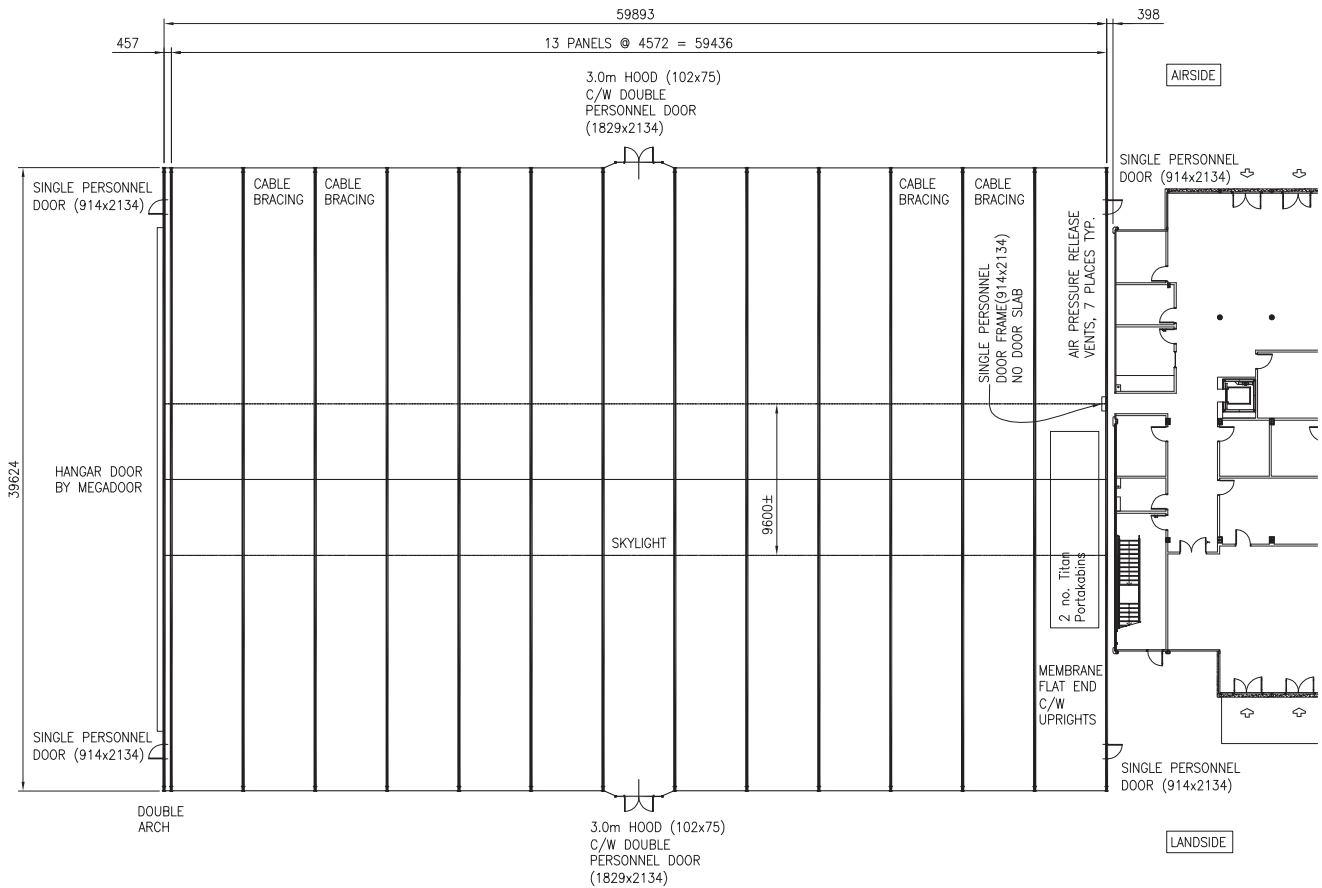
Lead Time

Total delivery from initial order to practical completion including design, procurement, construction was 12 weeks

Costs

Delivered savings of 45% over conventional build







Viewing window into Hangar from office structure









10 years later

Andrew Challis

Marshall Aerospace and Defence Group

Newmarket Road

Cambridge

CB5 8RX

04th September 2017

Jonathon Fenton

Sprung Structures

Reference 22 Hangar

Dear Jonathon

The build for 22 Hangar was completed 2007/2008, and has been in constant use ever since. The structure itself has shown to be durable and is showing no signs of fatigue.

Maintenance of the building has been minimal, a yearly clean being undertaken to smarten the appearance. The building has proven efficient to heat & cool and has provided a space used for many different applications since its construction, including large corporate events, some of these being held mid winter. The addition of the Mega Doors, being easy to use and also maintain, again yearly maintenance visits to inspect and replace minor parts have kept this building functioning correctly.

In brief, a fantastic durable cost effective & multi-use construction.

Regards

Andy Challis

Estates & Buildings Dept