



Marshall: Hangar 10 at Cambridge International Airport

Originally constructed in the 1950s, the 5,500sq.ft Hangar 10 at Cambridge International Airport required a total refurbishment, in order to transform it into a modern and fit-for-purpose facility that Marshall Aerospace and Defence Group could utilise for key clients.

The solution

Marking its first project with Marshall, the £4.33m 13-month contract was awarded to Building Solutions (the specialist building and refurbishment arm of VINCI Facilities). Now complete, the following aspects proved vital to the project's success:

Rapid mobilisation

Building Solutions was able to mobilise on site just one week after receiving instructions to commence works. To maximise speed of delivery, the team commenced works while the hangar was still occupied by aircraft, introducing segregated work areas to maximise safety and minimise disruption.

NEC3

The best-practice NEC3 contract was utilised to ensure both parties acted with mutual trust and collaboration, operating an open-book approach along with early-warning systems. Building Solutions also collaborated with the client and professional team to run a refresher training workshops focused on how to manage an NEC contract, understand the roles and responsibilities, and develop processes.

Flexibility

The project required a flexible approach from Building Solutions, particularly as the scope of works increased by a third during the project, resulting in the contract value rising from £3.16m to £4.33m. The team worked evenings and weekends to deliver the additional works within a two-month contract extension.

Quality

Managers from Building Solutions and the client's team completed a Kingspan training course to ensure that a transparent inspection and testing regime could be introduced for the hangar's new insulated sheeting, which ultimately resulted in a defect-free installation.

Logistics

The air-side environment required Building Solutions' senior team to complete air-side driver training, enabling them to escort deliveries across the site. To minimise disturbance, any major works affecting the airfield or perimeter road were conducted out of hours.

Continuous improvement initiatives

- » The team developed a behaviour-driven 'works management methodology' designed to maximise productivity and efficiency. This saw the entire supply chain take part in daily briefings to review work, plan ahead and problem solve as necessary. The success of the methodology resulted in the team receiving an award at VINCI Facilities' annual in-house Innovation Awards.
- » Rather than using the client-specified product for floor coatings, Building Solutions sourced an alternative product, resulting in savings of c.£60k. This was achieved by collaborating with VINCI Facilities' sister-company Conren, which specialises in manufacturing floor coating solutions.
- » It was identified that the existing roof purlins could be refurbished, rather than replaced, creating savings of c.£160k.

SCOPE OF WORKS

- » Replacement of all roof cladding, wall cladding and doors, utilising high-efficiency Kingspan insulated sheeting.
- » Installation of high-level gas-fired radiant heating.
- » Asbestos removal.
- » New lighting and power installations.
- » Upgrades to M&E systems.
- » Installation of reinforced concrete floor.
- » Installation of an overhead gantry crane.
- » Environmental clean.
- » Painting works, including existing steelwork structure, flooring and floor markings.

KEY RESULTS

- » All works delivered on time and on budget, with a two-part handover enabling the client to gain early access to certain areas.
- » Zero lost time injuries, and strong results on all H&S audits.
- » The client was delighted with the outcome, scoring VINCI Facilities a full 10/10 for both Overall Performance and Likelihood to Recommended in a post project satisfaction survey.
- » Kelly West, Senior Project Manager at Marshall commented: "This project was run by a very good, highly experienced and professional team, who were open and collaborative from day one. Our senior management (including the Chairman) visited site and were very impressed."



BUILDING SOLUTIONS

For further details, please contact:

Steve Edgson: 07901 104415, steve.edgson@vincifacilities.com
Matt Hickman: 07711 597741, matt.hickman@vincifacilities.com