



PORT AND STARBOARD PLINTHS

DELIVERY TEAM

HB

CLIENT

Electroimpact

VALUE

£865,000

CONSULTANTS

MPS

DETAILS

AUK were building a new wing assembly facility at its site in Broughton, and needed plinths to facilitate part of the process. The wings are manufactured for the new A350 XWB aircraft. The wing manufacturing process is carried out within several defined station areas.

As part of the wing production 8 nr concrete plinths from 1.5 mts wide to 3 mts wide by 1 mt thick would sit 4.5 mts high on 164 nr concrete columns.

Steel embedment plates 300mm wide x 75mm deep were installed into the plinths, these act as gantry machine rails. Edge coping steelwork was used to secure demountable tubular steel handrails.

848 m3 of concrete, 245 tonnes of reinforcement, 2958 m2 of formwork & 67 tonnes of pressed steel were used in the construction.



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PROGRAMME

November 2010 saw the completion of the 8 nr concrete plinths that were completed **6 weeks ahead of programme**. The process was reduced by utilizing specialist lifting equipment which meant the team could construct the plinths on both the starboard and port simultaneously. Another key driver in the delivery was to pre fabricate the columns pre start date.

INNOVATION

The key driver in delivering the project within the timescale required was to ensure the reinforcement was prefabricated off site. With the start date looming in June and little scope for pre fabricating on site. HBL decided to fabricate the columns at their yard in Sandycroft situated only 1 mile away from site. The columns were delivered on our flat bed truck and stored the relevant types ready for installation.

City cranes and a 7 mt telehandler were used to lift the RASTO XXL formwork system into place. Hollingsworth Bros provided specialist training to its banksman to enable the use of the overhead gantry cranes, which were used for the lifting of reinforcement steel and the steel embedment plates. MPI testing was utilized to inspect 10 % of all welding.

Over 42 compressive strength tests were carried out all of which achieved greater than required results.

CLIENT SATISFACTION

Ray Griffiths of Electro impact commented
“The delivery and installation of the product within the agreed time frame and at the agreed price were strategic and essential across the Electroimpact organisation, bearing in mind the key role of the product in the development and manufacturing of the A350 XWB aircraft programme.

“Hollingsworth Bros were seamless in their operations and delivered on both fronts “

