



Project Profile :: Specialist Projects

RWC Ball

Client: Total Solutions

Scott White and Hookins' Role:

-  Structural Engineering
-  Event Engineering

Scott White and Hookins were instructed by Total Solutions to assess the capacity of an aluminium truss structure shaped to form the frame for a rugby ball as a centre piece for the opening ceremony of the 2015 rugby world cup at Twickenham.

The rugby ball shaped structure was built inside an inflatable skin offset by 100mm was formed of curved aluminium sections and was designed to support an evenly distributed lighting load. All structural sections were checked in accordance with BS EN 1999-1-4: Eurocode 9: Design of aluminium structures.

Additional capacity checks were undertaken to confirm the temporary stability of the structure during its erection. From this a suitable construction sequence was specified.

From our analysis we also confirmed maximum support reactions at the base of the structure to be supported.

