



Project Profile :: Specialist Projects

Take That, Ball of Fire

Client: Total Solutions

Scott White and Hookins' Role:

-  Structural Engineering
-  Event Engineering

Scott White and Hookins were appointed by Total Solutions Group (TSG) to analyse and prepare calculations for the Take That 'Ball of Fire' set at the BRIT 2015 awards.

The requirement was for a half globe structure using pipework attached to a truss circle. The pipework was to allow for the attachment of various lighting fixtures along with 55 arms that would out rig to a bowl containing a 'pyro flame' effect.

The whole framework was suspended from three points, with the front point on a large out rigged arm to allow for optimal rigging over the centre of gravity of the object.

A 3 dimensional model was created and analysed based on CAD drawings. Support reactions were calculated to confirm these were within capacity of the venue.

From instructions to proceed our analysis and calculations to demonstrate structural compliance (to Eurocode BS EN 1999 Pt 1-1 - Aluminium Structures) were prepared in less than 4 days.

