

**Project Profile: Specialist projects**



Structural/Civil Engineering  
Event Engineering

**Opening Ceremony,  
Commonwealth Games**

**Scott White and Hookins undertook modelling and assessment of the load capacity of the structures supplied by Total Solutions for the opening ceremony of the Birmingham Commonwealth Games.**

**Client**  
Total Solutions

The project comprised of a 4-storey tiered aluminium framed hydraulically operated structure as the centrepiece for the opening ceremony. The project was divided into zones including, Tow Path Bridge(s), Protocol Stage, Performance level stairs, 3no. tiers and 'Stella's house! In addition to these elements, structural checks were also undertaken for the Bull Ring, Bull Ring Ramp and Bridge.

The complete structure was designed, installed and tested within 4 months. The tiers were designed to move at a speed of up to 200mm/s, occurring multiple times during the performance.

