

CampbellReith
consulting engineers

Confidential

COMPLEX RIGGING

INFORMATION DOCUMENT

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COMPLEX RIGGING STAND INFORMATION DOCUMENT
(Also commonly known as **SUSPENDED LOAD, CUSTOM SUSPENDED LOAD**)

Complex Rigging Description

Custom built structures suspended via hanging points typically rigged from a venue hall roof structure, but also sometimes suspended from truss framing and other floor mounted structures. Custom describes structures that integrate a variety of different construction techniques, equipment and materials and can be built either onsite or prefabricated.

The Venue and Organisers reserve the right to deem any structure to be 'Complex' where the designer has not specified or if there are any special concerns to risk.

Non-Complex Rigging Description

Non-Complex stands often described a purpose built or off the shelf proprietary systems including: fabric banners, foamex signs, screens, lighting trusses, AV equipment and do not require structural sign off. Any proprietary system that has be modified with additional fixings or framing elements should be upgraded to Complex Rigging classification.

Checking/Inspection Process

1. Stand designers submit complex rigging design drawings and structural calculation package to CampbellReith.
2. CampbellReith Engineer reviews design information and request more information if required.
3. CampbellReith issue certificate to build ahead of the event if design is compliant.
4. CampbellReith conduct onsite inspection before the suspended load is raised. Engineer may request some onsite modifications to improve construction safety.
5. CampbellReith issue inspection report letter, with Complex Structures listed on it.

Structural Information Requirements

Submission of information should be in the form of drawings and calculations, not photographs or rough sketches, as it is not possible to assess the structure without details of the stand.

Calculations should justify the structural elements, with particular reference to spanning members and total weights to each hanging point.

Drawings should contain enough detail to show exactly how the stand will be rigged including connection details between venues rigging point to suspended elements, constructed details of joints between elements etc.

All structural information should be submitted to CampbellReith at least two weeks (10 working days) prior to the event date. CampbellReith will then submit a Certificate to Build ahead of the event to verify design has been reviewed.

Additional Notes

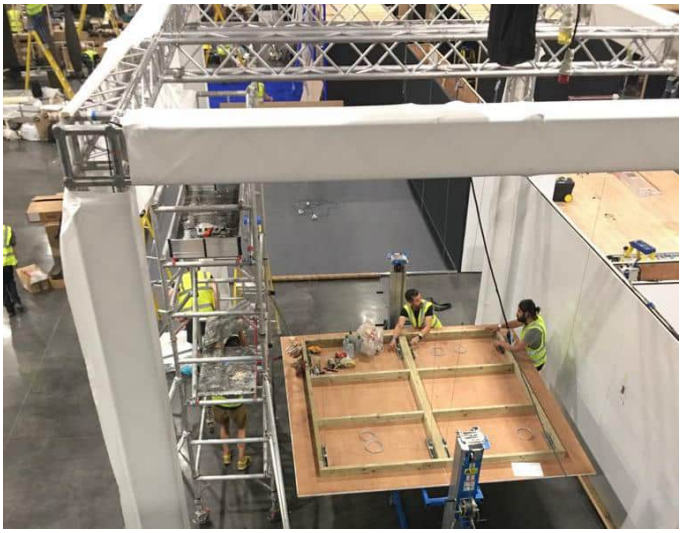
In most venues, stands will not be allowed to be simultaneously part suspend and part ground supported. Suspended elements should not be connected to any part of the ground-supported stands.

Venue Rigging Services should notify CampbellReith if a suspected complex rigging stand has requested for it to be raised onsite before structural checks have been completed.

Examples of Complex Rigging













Examples of Non-Complex Rigging









