

## COMPLEX STANDS - NOT DOUBLE DECK STRUCTURES

### STRUCTURE INFORMATION REQUIREMENTS

1. 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.
2. Drawings should contain enough detail to show exactly how the stand will be constructed including baseplates, joint construction support details etc.
3. Calculations are to prove that the stand is stable and capable of supporting the loads of anything which will be supported i.e.: lights, speakers plasma screens etc. A nominal load should be applied for wind ( $0.15 \text{ kN/m}^2$ ) although this appears not to apply in the halls stands have been affected by doors being open. A calculation should also be carried out for overturning this assumed to be the impact of a person ( $0.75 \text{ kN}$ ) at a height of 1.5m above the ground.
4. No fixing is allowed into the hall floor at these venues, other means of securing the stands need to be considered.
5. All structure information should be submitted to CR at least two weeks (10 working days) prior to the show build-up date.

## COMPLEX STANDS - DOUBLE DECK STRUCTURES

### STRUCTURE INFORMATION REQUIRED

1. 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.
2. Drawings should contain enough details to show exactly how the stand will be constructed including baseplates, joint construction support details etc.
3. Baseplates should be a minimum of 300 x 300 x 12 and tied together using straps to prevent spreading of the baseplates, if not then a calculation should be provided to justify their omission.
4. No Fixing is allowed into the hall floor.
5. Calculations are to prove that the stand is stable and capable of supporting the dead load of the structure and a live load of 5 kN/m<sup>2</sup> (refer to EXCEL & ECO Regulations). A nominal load should be applied for wind (0.15 kN/m<sup>2</sup>) although this appears not to apply in the halls, stands have been affected by doors being open. A calculation should also be carried out for stability and sway moments, these should be counteracted using either bracing or moment connections.
6. Stair calculations should assume a live load of 5 kN/m<sup>2</sup>. Stair dimensions vary depending on the number of risers, details can be found in the EXCEL & ECO regulations.
7. Handrails should be designed to resist a horizontal load of 1.5 kN/m run at a height of 1.1m. Infill panels should be constructed using either solid material or vertical bars, horizontal bars or wires are not acceptable.
8. All structural information should be submitted to CR at least two weeks (10 working days) prior to the show build-up date.