

## To be read in conjunction with the Standfitting Regulations

### Double Decker Stands – Planning and Construction

#### Introduction

This guidance identifies the main elements of safe construction of a double-deck stand. It supports the requirements for complex structures set out in the Stand Plans section.

#### Design

The following basic considerations must be addressed by the designer of a double decker stand:

#### Stability:

- Stability at all stages of construction and dismantling
- Identifying the point at which the structure can support itself
- Identifying the permanent elements that ensure stability
- The sequence of construction and the sequence for the removal of any temporary parts
- Calculations indicating the relevant forces and load capability of the structure
- The floor loading capacity of the venue

#### Construction and Dismantling:

- Drawings must clearly identify the sequence of construction, eg construction of frame; insertion of legs; fixing of bracing
- A clear plan for dismantling the stand must be identified
- The time available for construction and dismantling of the stand must be taken into consideration
- A safe system of work must be identified within the methods for construction and dismantling, i.e. work equipment; temporary handrails; fall-arrest system

#### Assessment of Loads:

A realistic assessment of the loads and forces at each stage should be made in consideration of the erection sequence

#### Connections:

The design should consider the safest means of connecting components and, where appropriate, indicate the necessary provision of access equipment and the safe system of work

- Connections shall be simple and effective to reduce the time spent working at height

#### Materials Handling:

- The design should take account of the safe handling, lifting, storage, stacking and transportation of the components relevant to their size, shape and weight

#### Method Statement

The preparation of a method statement is an important step in the planning of a safe system of work.

The method statement for a double decker stand should include:

- Construction sequences, noting the starting point
- Methods to ensure stability, including the use of temporary components
- The detailed construction scheme that identifies the lifting, alignment and connection requirements
- The preferred system to prevent falls from height, the safe means of access and any special platforms or equipment
- The provision of suitable plant and equipment with which to construct the structure safely

## Double Decker Stands – Specific regulations

### Exits

There should be a minimum of two separate staircases leading from any floor above ground level.

However, in the following situation, a single staircase is acceptable:

- No more than 60 people will occupy the level served by the staircase at any one time (public, performers and staff inclusive)
- No part of that floor of the upper storey of a stand is more than 20 metres away from the gangway. This should be reduced to 15 metres where alcohol is being served on the upperdeck.

### Upper Level Floor Loading

- The floor of the upper level of a multi-storey stand must be capable of withstanding a weight loading of 5kn/sqm.

### Ceilings on multi-storey stands

- Ceilings, except those above the topmost storey of multi-storey stands, must be of solid construction.