

# DAYTONA

## STAGE HIRE

### **DS60 MAIN STAGE DECK SPECIFICATION AND LOAD CALCULATIONS**

#### **GENERAL INFORMATION**

- All load calculations contained in this section have been sourced from the deck manufacturers and our structural engineers Anthony Ward Partnership Ltd.
- The Stage decks of the Daytona DS60 Mobile Stage have been purposely designed and manufactured to vastly exceed any anticipated loadings that they may be subjected to in their normal course of duty. Despite this, it is the responsibility of the Event Organisers or their on-site representative to ensure that the following load limits are strictly complied with. Failure to adhere to these limits may severely compromise Health and Safety issues associated with this type of structure. Therefore, Daytona Stage Hire shall not be held responsible for any damage or consequential loss if these limits are exceeded. Furthermore, should damage occur to any of Daytona's equipment or staff as a direct result of exceeding these limits, the Event Organiser or their on-site representative shall be held responsible.

#### **SPECIFICATION**

- Stage Deck Framework Type: 1 of 10 metre wide x 2.5metre deep x 250mm thick steel framework section, hinged onto central main chassis section measuring 10 metres x 1.1metre.
- Stage Deck Supporting Legs: The central main chassis section of the stage is supported by 6 legs. 4 of which are hydraulically-operated load-bearing landing legs, and 2 are manually operated stabilising legs. The fold out deck section is supported by 6 100mm x 100mm steel box section legs with screw adjusters on the foot end. These are then connected to each other and back to the main chassis with 50mm Ø aluminium tubing to produce a 10m x 6m footprint to aid stability.
- Stage Deck Platform: 24mm 17 ply Finnish plywood which is phenolic resin crossbonded using weather resistant glueing according to EN 314-2/class 3 (DIN 68705 Teil 3: BFU 100; BS6566 Part 8: WBP). The surface is a brown (abt RAL 8017) phenolic resin impregnated multi-layer laminate with hot-pressed high friction pattern.
- Standards: BS979-3 : 1991 Specification for wrought steels for mechanical and allied engineering purposes. BS EN 10025 : 1993 Hot rolled products of non-alloy structural steels. BS 3692 : ISO metric precision hexagon bolts, screws and nuts. BS 6399 : Loading for buildings. BS 7905-2 : 2000 Lifting equipment for performance, broadcast or similar applications. BS EN 287-2 : 1992 Approval testing of welders for fusion welding. BS EN 288-4 : 1992 BS EN 288-8 : 1995 Specification and approval of welding procedures for metallic materials.

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# **DAYTONA**

## **STAGE HIRE**

### **DS60 MAIN STAGE DECK SPECIFICATION AND LOAD CALCULATIONS continued**

#### **DIMENSIONS**

- Stage Deck: 10 metres wide x 6 metres deep x 274mm thick
- Trim height: 1.4 metres

#### **LOADINGS**

- Overall: 7.5kN/m<sup>2</sup> which is approximately equivalent to 750kg/m<sup>2</sup>
- Point Loading: 4.5kN which is approximately equivalent to 450kg/100mm