

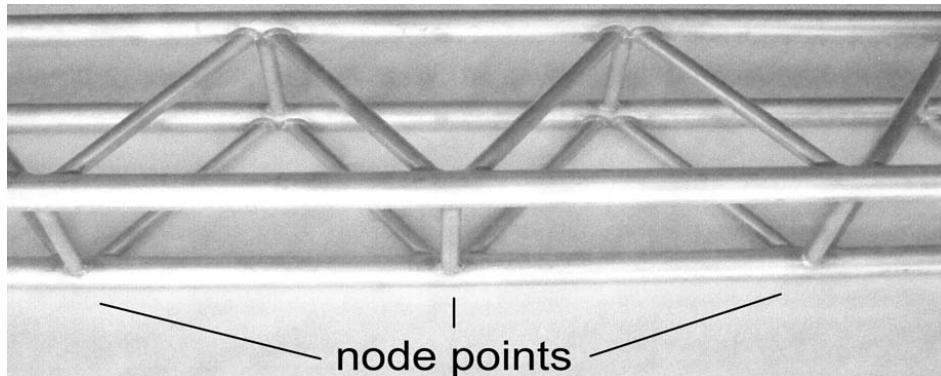
# DAYTONA

## STAGE HIRE

### DS60 MAIN STAGE TRUSS SPECIFICATION AND LOAD CALCULATIONS

#### GENERAL INFORMATION

- All load calculations contained in this section have been sourced from the trussing manufacturers and our structural engineers Anthony Ward Partnership Ltd
- All figures contained in this section are subject to a Safety Factor, which takes into account the extra effects of the self-weight of the roof panel, the effects of wind and the (minimal) effects of rain.
- The manufacturer's guidelines state that any load secured to the truss should only be attached at node points  $\vee$  along the chords (tubes), using purpose built connectors with a secondary or safety ie chain or steel rope.



- **IMPORTANT** If chain motors are to be used for flying lighting rigs, they **MUST** only be attached at a node point and over both lower chords (tubes) of the truss.
- The truss may only be rigged by competent, and suitably experienced people/organisations that have the relevant experience of structures of this type.
- It is the responsibility of the Event Organisers or their on-site representative to ensure that the following load limits and guidelines are strictly complied with. Failure to adhere to these guidelines may severely compromise Health & 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 guidelines are broken. Furthermore, should damage occur to any of Daytona's equipment or staff as a direct result of breaking these guidelines, the Event Organiser or their on-site representative shall be held responsible.

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## STAGE HIRE

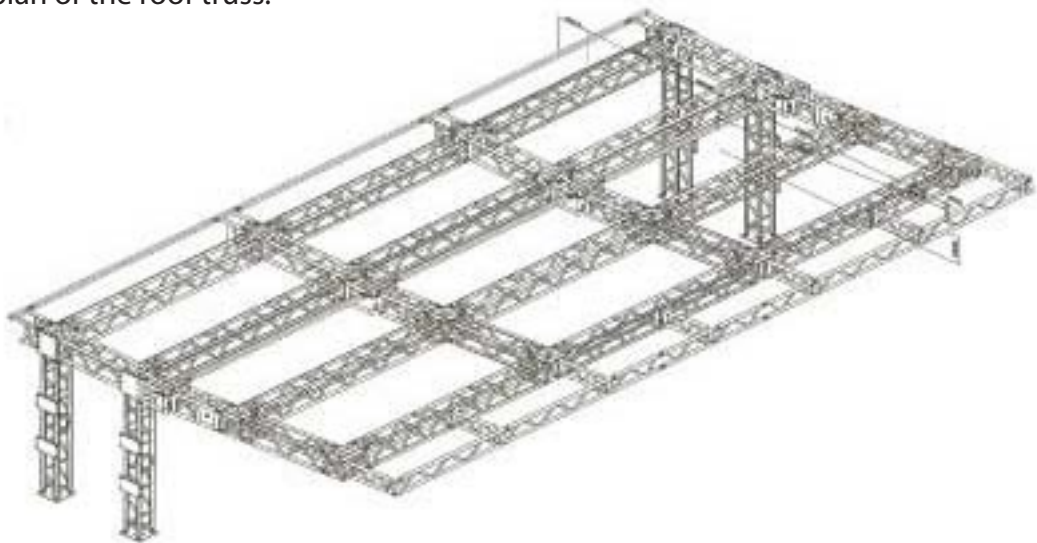
### **DS60 MAIN STAGE TRUSS SPECIFICATION AND LOAD CALCULATIONS continued**

#### **SPECIFICATION**

- Truss Type: 6082-T6 aluminium alloy, with corresponding filler wire grade 4043A
- Materials Standards: BS EN 755-2 : 1997 Aluminium and aluminium alloys, BS 2901-4 : 1990 Filler rods and wires for gas-shielded arc welding.
- Manufacturing Standards: BS 8118 Part 1 : 1991 Structural use of aluminium, BS 8118 Part 2 : 1991 Structural use of aluminium, BS 6399 Loading for buildings, BS 7905-2 : 2000 Lifting equipment for performance, broadcast and similar operations, BS EN 287- 2 : 1992 Approval testing of welders for fusion welding, BS EN 288-4 : 1992 Specification and approval of welding procedures for metallic materials, BS EN 288-8 : 1995 Specification and approval of welding procedures for metallic materials.

#### **LOADINGS**

- Loadings per left to right 10 metre span: 1,000kg uniform distributed load, 500kg central point load, 375kg triple point load, 250kg quarter point load. Whenever chain motors are used, the above load figures must be divided by 1.25. This will provide a safety margin to counter the 'snatch' factor common to this equipment.
- Loadings overall: 4000kg.
- This is a basic plan of the roof truss.



**P.O. BOX 43 HUDDERSFIELD HD8 9YU J 01484 605555 FAX: 01484 602806**

**WWW.DAYTONASTAGEHIRE.COM EMAIL: DAYTONASTAGEHIRE@MAC.COM PROPRIETOR PAUL HAIGH**

# DAYTONA

## STAGE HIRE

### DS60 MAIN STAGE TRUSS SPECIFICATION AND LOAD CALCULATIONS continued

#### DIMENSIONS

■ Truss Dimensions:

Diagram shows cross section of roof truss with measurements taken from the outside edge of each chord (tube).

■ Roof Truss Dimensions:

4 x 10 metre left to right roof spans. 4 x 5.7 metre front to rear roof spans.

