



Technical Specifications

ARENA

*Beeches Road
Walsall
WS3 1AG

01922 654555

**main Arts Centre offices on Hawbush Road*

The Arena is a flexible, multi-function space with an extensive, self-supporting truss structure of arched configuration, for the rigging of hoist motors, truss units, technical equipment and aerial-performance gear. The auditorium can be used in any orientation as required. There is an elevated technical-control gallery at one end of the auditorium with a purpose-built platform for equipment and staff. Touring engineers can also operate from the Arena floor when appropriate. The space is a light grey colour with a painted concert floor. There is a mobile rake of retractable seating, while temporary floor-seating is added to expand audience-capacity to 510+ depending on the depth and location of the stage construction.

Get In

We have a wide, double-gate entrance to the adjoining main car park, while a smaller, double-gated compound is provided adjacent to the dressing-room end of the Arena.

Access to the Arena space is via any of the 3 double fire-doors that are located on the car-park side of the hall.

Two of the load-in doors have a max width of 1.6m, and a max height of 2m, while the third is upstage and has a max width of 2.4m and a max height of 2.2m. A 760mm-width, 400kg-capacity loading ramp, appropriate to these fire-doors, is available.

Parking spaces can be provided, but should be confirmed with the venue in advance.

Dressing Rooms

Situated backstage via a short, connecting passage and small flight of steps, there are two dressing rooms plus toilet and shower. There is a kitchen sink, small fridge, and ironing board with iron.

N.B:- *Please discuss with the venue in advance if you have any special accessibility requirements during your visit.*

Venue Dimensions

Venue Width	17m
Venue Width (Between Truss Legs)	15.7m
Venue Length	36.6m
Height (height to highest point of underside of truss arches)	8.2m
Height (height to lowest point of underside of truss arches)	6.5m
Height of purlins 1 & 6 (underside)	6.2m
Height of purlins 2 & 5 (underside)	7.4m
Height of purlins 3 & 4 (underside)	8.2m
Height (to underside of end lower trusses)	5.2m

N.B:- *Purlins are the box truss that links the main truss arches in the roof.*

Stage facilities and equipment

10+	Black theatre drapes (to divide the room, and to create stage 'black-box')
08	Load Guard BGV D8+ 1000Kg chain hoist motors
01	Guardian G-Pro: LV8 hoist motor controller
01	Genie GS-2632 scissor lift
01	Genie GR-20 vertical-mast lift
18	8ft x 6ft x 2.5/3.2/3.9ft mobile stage units (plus height-appropriate treads)
12	8ft x 4ft x 2.5ft Steeldeck units (can be set at lower height for stage risers)

Additional Stage Information

- Multiple stage and seating arrangements available - please contact the venue to discuss and finalise options
- Full 10m x 8m sprung dance-floor with mats
- 15m-wide box-truss with 9.5m x 6m core-structure, plus variable-width single-span units as required
- All equipment-rigging operations to be supervised by the relevant Arena staff
- Access equipment may only be used by trained persons holding a valid licence
- PPE to be worn at all times during rigging operations

Lighting

The auditorium is equipped with a fixed lighting rig that comprises a mixture of LED profile and wash moving lights, plus LED pars. 18 channels of dimming are also available to augment this rig with conventional lighting units. The control system for the auditorium is an Avolites Tiger Touch 2 lighting desk. The rig is controlled via four universes of wireless DMX. A portable control-rack houses the necessary wireless-DMX transmitters which are fed by 4 x 5pin DMX cables and transmit on 2.4 GHz. Each of the moving lights has an OEM Wireless Solution receiver card built in and the LED pars are connected with DMX cable to one Wireless Solutions wireless DMX receiver in the rig.

Dimming and Control

- 01 Avolites Tiger Touch 2
- 01 Avolites Tiger Touch Fader Wing
- 02 Wireless Solutions F2500 DMX transmitters, plus receiver for LED pars
- 01 Avolites ART2000 Power Cube for dimming
with Swisson XND-8R Node and DMX splitter

Lighting Equipment

LED fixtures (fixed in rig plus loose stock) include:

- 40 Prolights Studio COB FC - LED COB Pars
- 34 Prolights Diamond 19 CC FC - Wash moving lights
- 11 Prolights Luma1500SH - Shutter Profile Moving lights

Conventional units available include Source 4 / Selecon / Strand profiles, Selecon fresnels etc.

Atmospherics

- 02 MVS Hazers

Sound

The auditorium is equipped with a PA system consisting of 10 EV passive full-range speakers, flown in five pairs from consecutive truss legs, and 4 EV passive sub speakers, with their corresponding amplifiers located on the technical gallery. Control is via an Allen & Heath Qu32 digital sound desk and two AB168 digital-snake audio racks.

A dedicated Cat5 socket is located stage-left, providing the link with the gallery, while a mid-auditorium patchbay enables toured desks to tie in to the house amplifiers as required.

Sound Equipment

- 01 Allen & Heath Qu32 Digital Sound Desk (32 local mic inputs & 10 mix outputs)
- 02 Allen & Heath AB168 digital audio rack (16 mic inputs & 8 mix outputs)
- 10 EV EVF 1122S/64 Full-range speakers
- 04 EVF 1151S Subs
- 05 Q1212 amps (feeding main speakers)
- 02 Q66 amp (feeding subs)
- 01 EV DC-One Digital sound system processor

Radio Mic Frequencies

A Licence for channel 38 radio microphones is held by the Arts Centre. Please discuss requirements and any radio microphones you may need to bring onto site as other events that also need radio microphones may be happening in other spaces in the Arts Centre.

BE AWARE THAT THE ARENA'S WIRELESS DMX FOR LIGHTING TRANSMITS ON 2.4 GHZ.

Projection / A.V.

The A/V system includes three projectors, three fixed 5m front-projection screens, four PTZ cameras flown at various fixed positions around the truss structure, two stage-side patch-points for roving cameras, and a vision-mixing system on the technical gallery which can accept a variety of signal sources and from where the PTZ cameras are operated remotely.

Projection / A.V. Equipment

- 03 Christie DWX851-Q 7500 Lumen Projectors
- 03 Flatmax 5000mm x 2810mm front-projection 16:9 screens
- 01 Blackmagic ATEM 1M/E Production Studio
- 01 Blackmagic ATEM 1M/E Broadcast Panel
- 01 Lumens KB30 Remote Camera Controller
- 03 Datavideo PTC-120 HD Cameras
- 01 Datavideo PTC-150 HD Camera
- 02 Datavideo DAC-70 A/D Converters

Power

- 02 32a single phase supplies which supply 16 x 32a C-form sockets, one located by each truss arch leg with a further two on the back wall.
- 02 63a single phase supplies which supply 16 x 63a C-form sockets, one located by each truss arch leg with a further two on the back wall.
- 02 32a 3phase supplies which supply 16 x 32a C-form sockets, one located by each truss arch leg with a further two on the back wall.
- 02 63a 3phase phase supplies which supply 16 x 63a C-form sockets, one located by each truss arch leg with a further two on the back wall.
- 04 32a single phase sockets located on the control balcony (please note that the 4 sockets are protected by a 63a single phase main breaker and then individually by 32a breakers so max current draw across the 4 sockets is 63a)
- 01 32a Ring main with 16 X twin 13a sockets on the control balcony dedicated for lighting
- 01 32a Ring main with 8 X twin 13a sockets on the controls dedicated to sound
- 01 32a Ring main with 16 X twin 13a sockets at low level around the auditorium

Health and Safety

All visiting companies must provide a risk assessment and safe system of working (RAMS) at least two weeks in advance of the production.

The Arts Centre has the right to stop, postpone, cancel or remove any event, activity, equipment or persons if it feels they are unsafe and pose a risk that is not being adequately controlled.

All visiting companies wishing to use the Genie access platforms must provide copies of valid licences prior to arrival.

All rigging operations will be supervised by the relevant Arena staff. Whenever truss units are in motion and during any period when the units have been lowered for the rigging of toured equipment, PPE must be worn and the number of personnel involved must be kept to an absolute minimum.

All visitors will be inducted to the venue by a member of the Arena staff who will give a verbal induction covering the following points:

- a) Fire alarms and evacuation
- b) First Aid procedure
- c) Accident reporting
- d) Welfare facilities
- e) General house rules

Booking Contact Details

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