



Technical Specifications

ARENA

Beeches Road
Walsall
WS3 1AG

01922 654555

what3words address: [///dance.zone.hush](https://www.what3words.com/address/:///dance.zone.hush)

The Arena is a flexible, multifunction space with a self-supporting truss structure of arched configuration for rigging of technical equipment and aerial-performance work. There is an elevated technical-control gallery at one end of the auditorium with a purpose-built platform for equipment and staff. Touring engineers may also operate from the Arena floor when appropriate. There is a rake of retractable seating, while floor-seating is added to raise audience-capacity up to a maximum of 606, depending on the depth and location of the mobile stage or dance floor.

Get-In

We have a wide, double-gate entrance to the adjoining main car park off Beeches Road, while a smaller, double-gated compound is provided immediately adjacent to the dressing-room end of the Arena. For load-in purposes, pedestrian access to the Arena space is through any of the 3 double-door fire-exits that are located on the car-park side of the hall.

Two of these load-in doors have a max width of 1600mm, and a max height of 2000mm, while the third is upstage and has a max width of 2400mm and a max height of 2240mm.

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

Dressing Rooms

Situated backstage via a short, connecting passage and up a 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 any special accessibility requirements.*

Venue Dimensions

Venue width	17m
Venue width (between truss legs)	15.7m
Venue length	36.6m
Apex of truss arches (bottom chord)	8.2m
Height of arch/truss-leg junction	6.5m
Height of purlins 1 & 6 (bottom chord)	6.2m
Height of purlins 2 & 5 (bottom chord)	7.4m
Height of purlins 3 & 4 (bottom chord)	8.2m
Height of end lower trusses (bottom chord)	5.2m

N.B:- *Purlins are the longitudinal trusses that link the main truss arches in the roof, with 1 and 6 being the outer purlins.*

Stage Dimensions

For our standard black box setup, the following stage dimensions apply:

Playing area width (from onstage edge to onstage edge of fixed legs)	10m
Playing area depth (from front edge of stage to blacks upstage)	5.3m
Stage Right wing width	2.5m
Stage Left wing width	1.8m
Stage height (venue floor to stage deck)	0.8m
Front edge to Fixed Leg 1	1.6m
Fixed Leg 1 to Leg 2 (on swivel clamp)	1.2m
Leg 2 (on swivel clamp) to Leg 3 (on swivel clamp)	1m
Leg 3 (on swivel clamp) to Rear Black	1.5m

A sub-hung truss structure hangs under the main roof structure, off which the fixed legs, rear black, and some additional lighting is hung. Sub-hung truss 1 sits above the downstage edge of the stage.

Sub-hung truss height (stage deck to bottom chord of truss)	5m
Sub-hung truss 1 to Sub-hung truss 2	1.6m
Sub-hung truss 2 to Sub-hung truss 3	3.7m

Stage facilities and equipment

- 12 3m x 6m acoustic drapes (to create stage 'black-box' complete with four legs on swivels)
- 08 Load Guard BGV D8+ 1000Kg chain hoist motors
- 02 Road Crew 0.5T manual chain hoists
- 02 LiftinGear 1000Kg manual chain hoists
- 01 Guardian G-Pro: LV8 hoist motor controller
- 01 Genie GS-2632 scissor lift
- 01 Genie GR-20 vertical-mast lift
- 18 SICO 8ft x 6ft x 2.5ft mobile stage units with rails and two treads
- 20 Event-Deck risers (with leg-sets at 1.5ft, 2ft and 2.5ft).

Additional Stage Information

- a) Alternative stage and seating arrangements available - please contact the venue to discuss and finalise options
- b) Full 10m x 8m sprung dance-floor with mats
- c) OV40T 15m-wide box-truss (11m x 3m core), and two x 15m OV40T single spans
- d) All technical rigging operations to be supervised by the appropriate member of Arena staff or their representative
- e) Access equipment may only be used by trained persons holding a valid licence
- f) Appropriate PPE to be worn at all times during rigging operations.

Lighting

The auditorium is equipped with a fixed-in-place LED lighting rig that comprises of a mixture of profile and wash moving-heads, plus Cob LED pars. There is also a stock of loose washes and cobs.

The rig is controlled over four universes of wireless DMX (1, 2 and 3 for fixed rig, and 5 for loose stock). A portable control-rack houses the 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.

There are multiple shielded Cat6 patch points at stage-right, stage-left, at the mid-auditorium patch-bay and on the control gallery.

Dimming and Control

- 01 ETC Eos Apex 5 console
- 01 GrandMA3 Compact XT
- 01 Avolites ART2000 PowerCube for 18 channels of dimming plus hot power
- 02 Wireless Solutions F2500 DMX Transmitters, with DMX receiver for LED Cobs
- 01 Swisson XND-8R Node and DMX splitter

Lighting Equipment

LED fixtures :

- 22 Prolights Studio Cob FC pars in rig, plus 18 loose stock
- 24 Prolights Diamond19 CC FC wash moving lights in rig, plus 10 loose stock
- 11 Prolights Luma1500SH - shutter profile moving lights in rig

Generic units available include Source 4, Selecon and Strand profiles, and Selecon fresnels.

Atmospherics

- 02 Le Maitre MVS Hazers

Sound

The auditorium is equipped with a PA system consisting of 02 HK Audio active full-range speakers as a Main LR, 04 HK Audio active Subs fed from the Main LR, and 10 EV passive full-range speakers, flown in five pairs from consecutive truss legs, four pairs as delays and one pair as stage side fills.

There are multiple shielded Cat6 patch points at stage-right, stage-left, at the mid-auditorium patch-bay and on the control gallery.

Sound Equipment

- 01 Yamaha DM7 Compact Digital Sound Desk (72 mono channels, 48 mix outs, 12 matrix outs and 2 stereo outs with 16 analog inputs & outputs on the console plus 144 in and out via Dante)
- 01 Yamaha RiO 3224-D2 IO Interface (32 analog inputs and 16 outputs, and 8 digital outputs)
- 02 Audinate AVIO Analog Output Adapter 0x2 (feeding Main LR and Front Fills)
- 02 HK Audio AT112A Full-range speakers (Main LR)
- 04 HK Audio AT115 Sub Subwoofers (fed from Main LR)
- 10 EV EVF 1122S/64 Full-range speakers (Delays)
- 05 Q1212 amps (feeding delay speakers)
- 02 HK Audio Dart active wedges (acting as front fills)
- 06 HK Audio Dart active wedges (available as monitors)

Radio Mic Frequencies

The Arts Centre holds a site-specific license for its radio mics in the range 614.050MHz to 621.700MHz, plus two further mics on 628.600MHz and 629.725MHz. As these frequencies have been coordinated by Ofcom, they should not cause interference with any touring equipment, nor should that equipment interfere with the centre's mics. 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 2.4GHZ.

Projector / A.V.

The fixed A/V system includes three projectors, three 5m front-projection screens, four PTZ cameras flown at various 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. For the black-box stage, a separate, single-screen front-projection system is flown.

Projector / A.V. Equipment

- 01 Kramer HDMI/Cat6 transmitter/receiver set
- 03 Christie DWX851-Q 7,500 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 sixteen x 16a 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 sixteen 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 sixteen x 32a C-form sockets, one located by each truss-arch leg with a further two on the back wall.
- 02 63a 3phase supplies which supply sixteen x 63a C-form sockets, one located by each truss-arch leg with a further two on the back wall.

Plus many 13a two-gang outlets throughout the auditorium, including sixteen around standard stage.

Health and Safety

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

The Arena has the right to postpone or cancel any event, and remove persons and/or equipment if they pose a risk that is not being adequately controlled.

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

All rigging operations will be supervised by Arena staff or their representatives. Whenever truss units are in motion and during any period when the units have been lowered for the rigging of toured equipment, appropriate 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, covering the following points:

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

Important Contact Details

Booking/Venue Management

Simon Pugh

01922 650313

simon.pugh@walsall.gov.uk

Technical Contact Details

Jamie Harley

01922 652975

jamie.harley@walsall.gov.uk

Drew White

01922 653720

drew.white@walsall.gov.uk

Operations/FOH

Deb Whitehouse

01922 650311

deb.whitehouse@walsall.gov.uk

Box Office/Finance

Ruth Bull

01922 650314

ruth.bull@walsall.gov.uk

Marketing/Media

Lauren Draper

01922 654535

Lauren.draper@walsall.gov.uk