



Main House Technical Specification

Get In

Direct access to the stage left side of the stage / auditorium via fire exit side door up a small ramp and through the auditorium entrance. There is a hatched area outside of the access doors which cannot be parked in while the building is open to the public.

Outer access door dimensions are 1990mm high x 1010mm wide and inner access door dimensions are 2035mm high x 940mm wide.

Subject to approval by theatre management a maximum of 9 cars can park down the left side of the building. This is available after 17.30 on weekdays. On Saturdays and Sundays, it can also be made available. It is only available on dates pre authorised.

Note street parking outside the theatre is limited to post 18.00 – 6 days a week but unrestricted on Sundays. Bank holidays qualify as ordinary days for parking purposes.

Please confirm parking requirements prior to arrival.

Stage Area

Proscenium with upstage curved 'APSE' on raised level.

Depth of stage from setting line to rear of stage: 2.89mtr

Depth of stage from setting line to rear of APSE: 5.77mtr

Setting line to front of seating row A: 1.52mtr

Proscenium width: 5.97mtr

Proscenium height: 3.38mtr

Full width of stage area: 12mtr

Height from stage floor to stage ceiling: 3.9mtr*

Height of bottom of lighting grid: 3.75mtr*

Height of auditorium galleries from floor: 2.38mtr

Height to 'APSE' arch top from 'APSE' Floor: 3.03mtr

Height from Stage Floor to 'APSE' Floor: 0.16mtr

* Note that items hung from the lighting bars will reduce clearance which should be considered when planning tall set pieces.

Stage floor is 3mm hardboard nailed down to 18mm sterling wood floor on top of concrete base, Painted matt black.

Seating capacity

Stalls standard capacity: 81 seats (87 with AA row installed).

All or part of row A can be removed to increase performance area.

Plans of the seating arrangements are available on the website from the Auditorium Overview page.

Backstage accommodation

Main Dressing Room: (Door from Stage Right Wing)	Space for 6 persons along mirrored dressing tables Sink, boiling water dispenser and fridge. Controllable ventilation and heating Clothes Rail and selection of chairs kept in the room.
Forward of Main Dressing Room:	Section before the main dressing room can be used to separate users. Space to set up tables, chairs, and mirrors. Contains access to a disabled toilet.
Rear of stage cross over:	Space either side of the 'APSE' arch and behind as crossover. Stage Right side has clothes rail and chairs to use as dressing room space as needed. Stage Left side is storage for Masking and some rigging but can be used as needed as quick change space.
'Meeting Room' as dressing room:	Meeting room (through scenery dock) can be used as overflow / chorus dressing room space as needed. (Subject to hire and availability) Some Tables and Chairs are in situ. Show relay sound and video can be extended to here if booked in advance.
'Studio' as dressing room:	Above the stage, the Studio can be used as overflow / chorus dressing room space as needed. (Subject to hire and availability)

Rigging and flying

No fly tower above stage area.

All lighting bars are 48mm diameter pipe.

6 x up/down bars above auditorium from proscenium to rear of auditorium held on I beams.
(Labelled D to I)

10 x up/down bars from proscenium to rear of stage. (Labelled A to K on the Down Stage Edge)

Cross bars under rigged from up/down bars across FOH and Stage. All labelled on the House Left side of the Bar

Stage right and left, 45degree under rigged bars for rear lighting positions.

3 x full height steel scaffolding bars for full height booms.

2 x Doughty Tank Trap bases with various 48mm Scaff bars to create movable boom options.

Masking

House tabs in Red Velvet, permanently rigged to open from centre directly behind the Proscenium on manual pull line track. (2 x 3530mm high by 4000mm wide Red Velvet front and black cotton rear tab with metal hooks on top runner)

Mid Stage, Full Width black tabs, permanently rigged to open from centre @ 1.45mtr from setting line on manual pull line track. (2 x 3460mm high by 3000mm wide Black Serge tab with cloth ties on top runner)

Up Stage, Full Width black tabs, permanently rigged to open from centre @ 2.35mtr from setting line on manual pull line track. (2 x 3530mm high by 4000mm wide Black Serge tab with cloth ties on top runner)

Loose Black Serge Masking:

Various 3530mm high Black Serge Tabs with cloth ties on top runner.

Loose Gauzes and other soft goods:

1 x 3450mm high by 10,000mm wide White Sharks Tooth Gauze, white eyelets in header tape **(subject to agreement and hire cost).**

Staging

The theatre owns Rostra deck and legs in various sizes. **The use of the Rostra staging is subject to the company/hirer assembling and dismantling and restoring all pieces after the production, under supervision.**

18 x 1600mm by 870mm Rostra Deck (Plain wooden top)

4 x 1220mm by 1220mm Rostra Deck (Plain wooden top)

380mm high 48mm Aluminium Scaff Legs

200mm high 48mm Aluminium Scaff Legs

4 x Single Tread (to be used with 280mm height 48mm Aluminium Scaff Legs)

Access equipment

1 set of 8 rung Zarges ladders

1 set of 6 rung Zarges ladders

1 set of 5 rung step ladders with top platform

(To use access equipment all staff must be appropriately trained. Please refer to H & S Working at Height INDG401 and the ABTT Code of Practice 11 of 2011. Lone workers must not work at height.)

Temporary Electrical Supplies

Down Stage Left: 1 x 13amp twin socket

Down Stage Right: 1 x 13amp twin socket

Up Stage Left: 1 x 13amp twin socket

Up Stage Right: 1 x 13amp twin socket

APSE Left: 1 x 13amp twin socket

APSE Right: 1 x 13amp twin socket

Scenery Store: 2 x 13amp twin socket

Auditorium Gallery Left: n/a at present

Auditorium Gallery Right: n/a at present

Stage Lighting

Control

Lighting control position is situated on tech gallery at the rear of the auditorium.

Control Console is a Zero88 FLX 48 with external touchscreen monitor and keyboard. The console is connected to the Cat 5 tech network, running Art-net 4 feeding 4 ODE nodes. These nodes are DMX connected to the intelligent fixtures. The node on the S/L gallery has a 4-way DMX splitter. This is cabled to 1] S/R LED PARS; 2] Apse CYC lanterns; 3] & 4] are spare for Bars LX House 3 and 5.

House lights are 5 channels of GDS controllable via DMX on the FLX desk via one of the ODE nodes in the lighting control position.

Blue wing workers are on channel 6 of the GDS House Light system and are permanently on provided the FLX desk is on.

Dimmers

3 x Pulsar 6 x 10Amp dimmer packs each offering 6 pairs of 1Kw dimming

1 x Furse Delta installed dimmer rack with 24 pairs of 1Kw dimming

4 x pairs Non-Dim power

DMX is fed to all the above via a Work C72 demultiplexer which is connected to one of the nodes.

All dimmers patched via IEC terminated patch to 16amp CEE form sockets installed around the stage and auditorium.

Power

There is a power distribution rack in the dimmer room. This provides 6 x pairs of 15amp D plug outlets fused at 10amps (3 pairs are in use for existing equipment). Power can be taken via the IEC terminated patch to the 16amp CEE form sockets located in the auditorium. Power demand must not exceed 10amps per pair of circuits and 63amps overall.

Lighting Positions

Follow Spot Position: Stand with spigot can be installed in the centre of the tech gallery desk position for single spot and operator.

Lantern Stock

Permanent rig – Any items moved must be re-rigged as a part of the get out as per Ground Plan HGT001; this includes correctly gelling lanterns as shown on the plan.

House LX 1:	6 x Strand Patt 743	1kW
	2 x ETC S4 Jr 36Deg	575W
House LX 2:	1 x CCT Starlette	1kW
House LX 3:	6 x ETC S4 Jr Zoom 25-50	575W
	2 x CCT Freedom 15-23	575W
House LX 5:	6 x ETC S4 Jr Zoom 25-50	575W
House Up/Down C:	1 x Thomas Pixel Par 90 LED	110W
House Up/Down H:	1 x Thomas Pixel Par 90 LED	110W
Stage Up/Down B:	1 x Strand Patt 743	1kW
	2 x Thomas Pixel Par 90 LED	110W
Stage Up/Down Cen:	1 x Stand Minuette	650W

Stage Up/Down J:	1 x Strand Patt 743	1kW
	2 x Thomas Pixel Par 90 LED	110W
45° Bar Stage Right:	2 x Strand Patt 743	1kW
45° Bar Stage Left:	2 x Strand Patt 743	1kW
APSE LX 1:	2 x ETC Colorsource CYC	133W
APSE LX 2:	2 x Strand Minuette	650W

Loose equipment

(Most lanterns are terminated with 16amp CEE form connectors, a few still have 15amp round pin D plugs; adaptor leads are available)

Profiles	2 x ETC S4 Jr Zoom 25-50	575W
	6 x Strand Patt 23	500W
	2 x Strand Minim 26	500W
Spot	1 x Strand Harmony PC	500W
Fresnels	3 x Strand Patt 743	1kW
	11 x Strand Minuette	650W
Par Cans	6 x Par64 CP 61 – Long Nose	1kW
	7 x Par 64 CP 61 – Short Nose	1kW
Floods	2 x Garden Flood	500W
	3 x Portable Flood	150W
	2 x 4' Fluorescent /UV Tube	50W
	4 x Music Stand Light	40W
	2 x Paired Floods for under stair uplight	500W
	1 x Blue/Amber Flashing (Fuzz) Light	60W

Miscellaneous Equipment

3 x Lens bodies for Patt 23
 2 x Swivel arm wall brackets
 1 x 12V Birdie with transformer
 2 x Iris for Cantata
 1 x Iris for Patt 23
 3 x Iris for ETC S4 Jr Zoom
 Gobo holders for Patt 23 and ETC S4s

Various lengths of 16Amp CEE Form TRS Cable are available for use.

Use of Smoke, Pyrotechnic and other special effects

The Headgate Theatre must be informed of any and all special effects to be used in a production prior to the company's arrival at the venue. Failure to do so may result in a fine and/or withdrawal of permission.

Pyrotechnical effects are not permitted in the theatre.

Fog and/or haze must not be used without prior agreement.

Sound and communications

Audio tie lines and infrastructure

24-way multi core cable running from tech gallery to Down Stage Left Wing (20 sends and 4 returns)
3 PA tie lines to Auditorium Gallery Right and 2 PA tie lines Auditorium Gallery Left. These tie lines feed to In House PA and are permanently installed with feeder cables.
13 Amp power to the active speakers in the PA is fed from a single switch spur on the tech gallery.

Sound Mixing Console

Allen and Heath GL2200 analogue sound console.

The sound console is located in the tech gallery just off of the centre line.

PA Loudspeakers - Installed

Proscenium: 2 x RCF ART 310A MkIII Active Speaker (with landscape Flying Frame)
Up Stage: 2 x db Technologies L160 Active Speaker (with landscape Flying Point)
Auditorium Gallery Right: 1 x db Technologies Sub 12 Subwoofer

PA Loudspeakers – Not Installed

2 x db Technologies Full Active Speakers (with landscape Flying Frames and Speaker stage compatible)

Effects and Outboard Equipment

1 x PC with SCS professional installed and 8-way sound card with loom feeding to sound console
1 x Lexicon MX300 Stereo Reverb Effects Processor Unit
1 x Numark CDN77 USB Dual CD Player

Miscellaneous Equipment

2 x Active DI Boxes

Various lengths of 3pin XLR Cable are available for use.

Stage Management, Intercom and Video system

There is no set stage management desk in the wings.

Integrated phone system to communicate between: Stage Right Wing (SM), Tech Gallery, Main Dressing Room, Foyer Front Desk. This is a single loop system with a location specific button activated quiet ring.

Tecpro Intercom system with breakout ties lines in Tech Gallery and stage wings. 5 x belt packs and headsets available upon request (**subject to hire costs**).

FOH Colour Camera installed and distributed to: Stage Left Wing, Main Dressing Room, Bar, Foyer Front Desk.

Audio Show Relay System installed and distributed around the theatre including 2 in the control box. This is from a single microphone feed of the stage from the auditorium.

Assisted Listening System

Active copper induction loop installed around the main house auditorium fed from conductor microphone above the stage.

AV Equipment

(Subject to hire cost)

1 x Panasonic PT-VMZ50EJ projector – Permanently rigged on House 3 bar

1 x Electrically controlled roller screen rigged above APSE arch

1 x DVD player

1 x HDMI switcher feeding projector from tech gallery (Pre fitted to PC and DVD Player) with loose HDMI cable for laptop connection. (Any client computers must have HDMI connection)

Technical Contacts

The Headgate Theatre,
14 Chapel Street North
Colchester
Essex
CO2 7AT

Front Desk - 01206 366000

All advance show information to be sent to Headgate Manager

Headgate Manager – info@headgatetheatre.co.uk

Technical Appendix Contents (Click link below for PDF Versions)

1. [Default Auditorium Lighting Plot \(HGT 001\)](#)
2. [Blank Rigging Ground Plan \(HGT 002\)](#)
3. [Blank Theatre Ground Plan with Dimensions \(HGT 003\)](#)
4. [Blank Lighting Circuits Plan \(HGT 004\)](#)
5. [Blank Theatre Ground Plan \(HGT 005\)](#)
6. [Generic Lighting Plot Magic Sheet \(HGT 020\)](#)