



# Glasshouse Theatre – TECHNICAL SPECIFICATIONS

**DRAFT: This document is based on current planned technical specifications**

**As built specifications to be released as required.**

**Check all critical details with production contacts.**

## STAGE

The Glasshouse Theatre has a fixed Proscenium Arch. Areas include the Main Stage, Forestage, and PS Stage areas.

There is an automated Waagner Biro fly system, (C.A.T V5. Operated from Opposite Prompt Gallery 1)

For dance productions a 37mm thick Harlequin Liberty sprung dance floor with black Harlequin Studio vinyl is available.

Note – Setting Line is the back of the Proscenium Arch.

## STAGE DIMENSIONS

• Proscenium height	8900mm
• Proscenium width	15000mm
• Load-in door dimensions (from dock to stage)	3150mm
• Apron depth	1435mm
• Forestage (Orchestra Pit) Lift depth along Centre Line	6180mm
• Height of stage level from Auditorium floor	900mm
• Stage depth to last flying line from Setting Line	15000mm
• PS Proscenium to PS side stage wall	14480mm
• OP Proscenium to fly rail OP	6980mm
• Clear height from stage floor to underside Gallery One	10490mm
• Distance between PS and OP fly floors	22000mm
• Distance from Setting Line to back wall of rear stage	17150mm
• Setting Line to House Curtain	600mm
• Stage to underside Grid	23750mm
• Stage to Grid floor	24000mm
• Point load of removeable traps over main stage*	20kn

\* Grid removable trap (Bombay door), located downstage, behind proscenium.

## REAR STAGE

• Width of rear stage (wall to wall)	19960mm
• Height to ceiling of rear stage	7540mm

## SIDE STAGE

• Depth of side stage	10980mm PS, 3480mm OP
• Height to ceiling of side stage	10520mm

## ACCESS

• Auditorium to stage access via pass door	PS & OP
• Crossover locations PS to OP	Rear of Stage, Under Stage

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## FLYING SYSTEM

A maximum of 10 lines are permitted to move at any one time.	
• Maximum Weight per fly line*	700kg
• Maximum Weight per fly line with lighting batten*	2
• Top speed (loaded up to 250kg) *	1.8m/ second
• Top speed (fully loaded) *	0.5m/ second
• Six Line Pickup (3.3m centres)	
• Number of flying lines from setting line to last fly set	100
• Number of panorama bars each side	2
• Distance of panorama bars from Centre Line	10.5m (onstage) 10.75m (offstage)
• Batten dimensions	50mm x 75mm x 4mm RHS
• Batten length	19m Extensions available
• Batten drift	22890mm
• Batten centres	150mm
• Stage to Grid chain motors (PS and OP upstage)	TBA
• Point hoists for left and right FOH speaker positions (2 per side)	1000kg WLL per hoist.

\* Maximum travel speed decreases with more weight on fly line.

## HOUSE CURTAIN

Fixed position as per hang plot.

• Motorised with variable speed	1.8m/ second maximum.
• Motorised French Action (Triple E chain track)	Opening/ operating speed TBA
• 100% fullness (Colour TBA)	

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## STAGE MASKING

### LEGS

• Black wool flat – main stage	16 x 11m high x 5m wide
• Black wool flat – panorama	12 x 11m high 3.5m wide

### BORDERS

• Black wool flat – main stage	4x 4m high 19.5m wide
• Black wool flat – main stage	4x 6m high x 19.5m wide

### SMOTHERS

• Black wool flat – main stage	2x 11m high x 19.5m wide
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### TABS

• Black wool flat – rear stage	4x 11.5m high x 10.5m wide
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### OTHER

• Cyclorama filled cloth	1x 11m high x 19m wide
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All the above masking is subject to availability at the time of the production meeting.

Additional stage furnishings are available upon request to the Manager Staging

## ORCHESTRA PIT LIFT

The **Small** Orchestra Pit layout can accommodate approximately 24 musicians.

The **Medium** Orchestra Pit layout can accommodate approximately 34 musicians.

The **Large** Orchestra Pit layout can accommodate approximately 56 musicians.

The **Extra-Large** Orchestra Pit layout can accommodate approximately 67 musicians.

Additional equipment is available for hire on request to the Manager Staging.

Refer all rigging enquiries to the Manager Staging.

Please confirm all critical measurements on site.

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## LIGHTING FACILITIES

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### LIGHTING CONTROL

- 1x ETC EOS Apex 10. (Front of House)
- 1x ETC EOS Apex 5. (Side stage backup)
- Additional consoles can be hired subject to availability upon request.
- Base sACN network:
  - 1x 1 port in each spot bar. (x7 in total)
  - Stage level: 4x port node in each corn on stage.
  - Galleries, level 2 (both sides) 8x port node in each.
  - Bridges 1, 2 & 3. 2x port node on OP,
  - Bridge 3, 1x 2 port node on OP & PS. (Either side of follow spot room)
  - 3x fibre-linked 24-port switches located in Control Room, Central rack room, and PS G2.
- DMX patch points distributed throughout the venue on most levels and lighting locations. Connections via Ethercon patches (Cat 5e/6).

### DIMMERS

- 48x ETC Sensor3- CEM3 Dinner rack
- All located PS Gallery 2.
- 576x 10A circuits total, distributed throughout venue. (Detail available on request)
- All Front-of-House and Gallery patch outlets are wired direct to dimmers.

### AUXILIARY POWER

- Stage level: USPS
  - 1x 400A, 1x 200A
- Prompt Side Gallery 1
  - 2x 400A PS G1
- Check if AV has a separate one in the trap room.
- 3 Phase outlets TBA

### FOLLOW SPOTS

- Canto Aurora X1, x3. (Availability TBC)
- The Follow Spot room is centre of bridge 3, above balcony auditorium.

### HOUSE LIGHTS

- Dynalite Panel System linked to Pharos DMX streamer.
- Control can be taken by sACN via console override switch.

### LIGHTING EXTRAS

A range of additional lighting equipment and accessories are available for hire on request to the Manager Lighting.

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## LIGHTING POSITIONS

- Front-of-House:
  - Bridge One, Bridge Two, Bridge Three
  - Balcony Rail.
  - Slot one, slot two, PS & OP.

Angles and distances may be obtained upon request to the Manager Lighting.

- Stage:
  - 7x stage Spot Bars wired each with 36 circuits,
    - Four run PS & 3 run OP.
    - with 6x six-way socapex.
    - Each bar has a cable management system along the full length of the batten.
  - 5x lighting ladders PS and OP each, tracking on the panorama bars.
  - 7x LX looms, each with 6x six-way socapex.
  - All looms are on electric winches with 4x hung PS and 3x on OP.
- Power distribution to overhead spot bars & ladders needs to be considered due to the number of socapex terminations available.

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## ALLOCATED LIGHTING INSTRUMENTS

Bridges are the only position that have stock rigged and patched as standard. All other stock is stored offstage and rigged as requested.

• Bridge One	17x Prolight ECL CT+HP 15/30°
• Bridge Two	17x ProlightsECL CT+HP 15/30°
• Bridge Three	12x Prolight ECL CT+HP 15/30°
• Slot One (PS and OP each)	20x (10ea) Prolight ECL CT+HP 15/30°
• Slot Two (PS and OP each)	12x (6ea) Prolight ECL CT+HP 15/30°
• Front-of-House, Stage, Boom and Ladder allocated stock	22x Prolight ECL CT+HP 15/30° 34x Prolight ECL CT+HP 19° 66x Prolight ECL CT+HP 26° 16x Martin MAC Viper XIP 16x Martin MAC Encore Wash CLD

## TOTAL ALLOCATION COUNTS

• Venue Allocation	100x Prolight ECL CT+HP 15/30° 34x Prolight ECL CT+HP 19° 66x Prolight ECL CT+HP 26° 16x Martin MAC Viper XIP 16x Martin MAC Encore Wash CLD
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## SOUND FACILITIES

• Mixing Console	1x Digico Quantum 338
• Proscenium Speakers	To suit venue. Concert grade PA. Specifications TBA
• Central Cluster Speakers	Yes, to suit venue.
• Front Fill Speakers	To suit venue.
• Delay Speakers (permanently rigged and patched)	To suit venue
• Surround speakers	Venue tie points available.
• Sub Woofers	To suit venue, flown.
• Routing and Equalisation	System processors to suit PA.
• Playback Sources	Digital playback options available.
• Communications	Wired: Riedel Artistnet talkback System Wireless: Riedel Bolero talkback system
• Video Monitoring	Stage View Low Light Stage View Conductor View
• ListenTech FM Audio Description / Hearing Impaired System.	2 Channels
• Incl Hearing loop	
• Auri Auracast Hearing assist auto description.	

Additional equipment is available for hire on request to the Manager Audio/Visual.

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## WARDROBE FACILITIES

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• 3x Washing machine Speed Queen	Type TBA
• 3x Speed Queen Dryer	Type TBA
• 1x Drying room	
• 16x Z-racks	
• 1x Juki LZ-2280BB0BK Complete Juki Standard Wide Industrial Sewing machine	
• 1x Bieffe Bf085BE Steam Iron	
• 1x Bernina 435 Domestic Sewing machine	
• 1x Bernina L450 Domestic overlock	
• 4x Jiffy-2000 Steamer	
• 1x Flammables cabinet	

Additional equipment is available for hire on request.

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