Glasshouse Theatre – TECHNICAL SPECIFICATIONS

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)	2821mm wide x 9040mm high
• Apron depth	1435mm
• Forestage (Orchestra Pit) Lift depth along Centre Line o DS edge of mainstage stage, to "Large Pit Lift"	5040mm
• 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 OP wall.	6980mm
• Clear height from stage floor to underside Gallery One	10490mm
• Distance between PS and OP fly floors	22000mmm
• 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*	500kg point load 500kg distributed load per m sq

* Grid bomb bay door is located downstage in the forestage

REAR STAGE

• Width of rear stage (wall to wall)	19960mm
• Depth of Rear Stage (Last upstage fly line to rear wall)	2150mm
• Height to ceiling of rear stage	7540mm

SIDE STAGE

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• Width of side stages (Gallery above to offstage wall.)	10980mm PS, 3480mm OP
• Depth of side stage	15000mm
• 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, Level 2 dressing room corridor

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*	400kg
• 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	19.0m Extensions available
• Batten drift	22890mm
• Batten centres	150mm
• Stage to Grid chain motors	16x 1000kg hoists
• Point hoists for left, centre &right FOH speaker positions (2 per side, 2 centre)	1000kg WLL per hoist.

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

Glasshouse Theatre- Fly bar weight to maximum run speed ratio
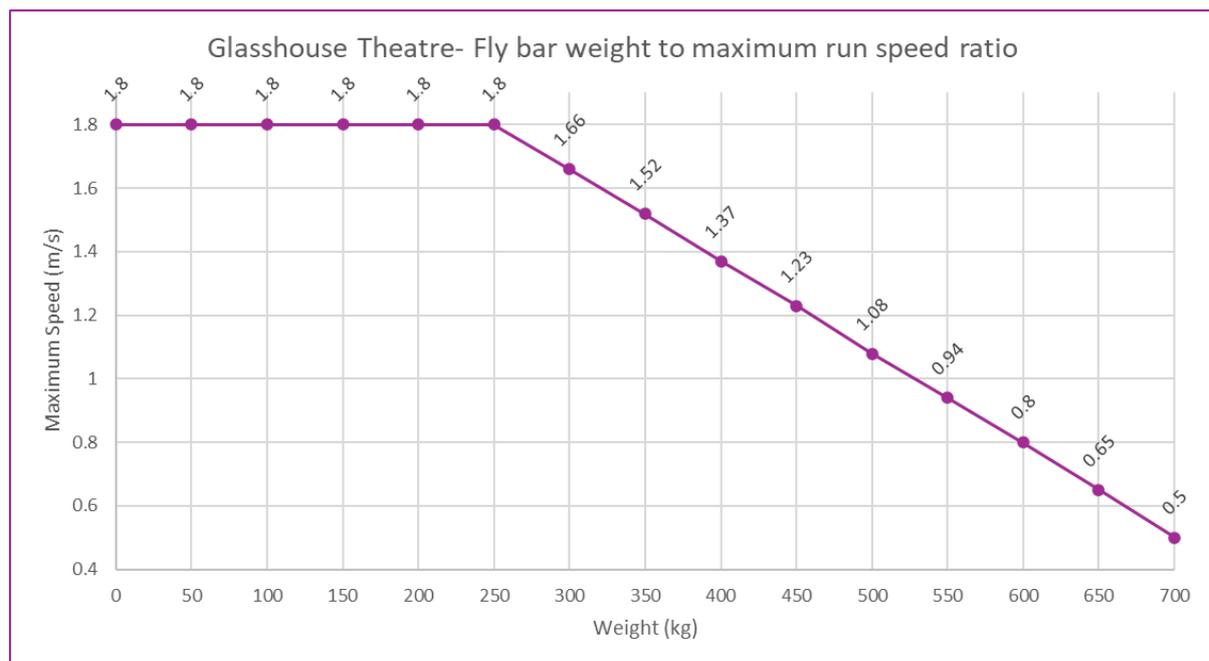
HOUSE CURTAIN

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	

STAGE MASKING

LEGS

• Black Wool Serge, 0% fullness – main stage	16 x 11m high x 5.0m wide
• Black Wool Serge, 0% fullness – panorama	12 x 11m high 3.5m wide

BORDERS

• Black Wool Serge, 0% fullness – main stage	4x 4.0m high 19.5m wide
• Black Wool Serge, 0% fullness – main stage	4x 6.0m high x 19.5m wide

SMOTHERS

• Black Wool Serge, 0% fullness – main stage	2x 11.0m high x 19.5m wide

TABS

• Black Wool Serge, 0% fullness – rear stage	4x 11.5m high x 10.5m wide

OTHER

• Cyclorama filled cloth	1 x 11.0m high x 19.0m wide
• White Sharkstooth Gauze	1 x 11.0m high x 19.0m wide
• Black Sharkstooth Gauze	2 x 11.0m high x 19.0m wide

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 up to approximately 24 musicians.

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

The **Large** Orchestra Pit layout can accommodate up to approximately 56 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.

LIGHTING FACILITIES

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:
    - 3x 1 port in each spot bar. (LX 7 has 2 x 1 port node)
    - 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)
    - Balcony Rail 1 x 2 port node
    - 6x 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

- ETC Sensor3- CEM3 Dimmer racks
- 4 x portable LSC GenV1 dimmer racks, 2 per OP and PS Gallery 2
- All located PS Gallery 2.
- Total of 576x 10A circuits total, distributed throughout venue. All dimmer circuits are selectable dimming or hot power upon request (Detail available on request)
- All Front-of-House and Gallery patch outlets are wired direct to dimmers.

AUXILIARY POWER

- Level 1 - Trap Room
    - Production SND #1 (PS)- 1 x 160amp Powerlock
    - Production SND (PS)- 1x 63Amp CeeForm socket outlet
    - Production SND (PS)- 2 x 40amp Wilco socket outlet
- Level 2 – Stage
    - Production Lighting #1 (US PS)- 1 x 400amp Powerlock
    - Production Automation (US PS)- 1 x 200amp Powerlock
    - Production SND (DS PS)- 1 x 160amp Powerlock
    - Production SND (DS PS)- 2 x 40amp Wilco socket outlet
- Level 5
    - Fly Gallery 1 PS- Production Lighting #2 (PS)- 1 x 400amp Powerlock
    - Production Lighting #3 (PS)- 1 x 400amp Powerlock

FOLLOW SPOTS

- Canto Aurora X1, x3.
- 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.

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.

ALLOCATED LIGHTING INTRUMENTS

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)	8x (4ea) 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

SOUND FACILITIES

• Mixing Console	Digico Quantum 338 Digico 32bit SD Rack 56/24 with 1x AES output card Optocore Fibre Network with HMA Connectors
• Proscenium Speakers	20x (10ea) Meyer Leopard M80 Line Array Elements 8x (4ea) Meyer Leopard Line Array Elements
• Centre Cluster Speakers	4x Meyer LFC 2100 Subwoofer 2x Meyer Ultra X80 2x Meyer Ultra X42
• Front Fill Speakers	5x Meyer Ultra X20
• In Fill Speakers	2x (1ea) Meyer Ultra X80
• Delay Fills (permanently rigged and patched)	12x Meyer Ultra X22
• Under Balcony Delay Speakers (permanently rigged and patched)	6x Meyer Ultra X22's
• Ground Stack Subwoofer	4x Meyer LFC 2100
• Routing and Equalisation	3 x Galaxy Processors
• Effects	Fourier Transform Engine
• Playback Sources	Digital playback options available.
• Communications	Wired: Riedel Artistnet talkback System Wireless: 10 x packs Riedel Bolero talkback system
• Cue Light System	12 Channels of ETC CueSystem Master station via Stage Managers Console
• Video Monitoring *Video monitoring is digital low latency.*	Stage View Low Light Stage View Conductor View
• ListenTech FM Audio Description / HearingAssist • Induction Hearing loop • Auri Auracast Audio Description/Hearing Assist	2 channels 1 channel 2 channels

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

WARDROBE FACILITIES

• 3x Washing machine Speed Queen	
• 3x Speed Queen Dryer	
• 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.