PLAYHOUSE THEATRE – TECHNICAL SPECIFICATIONS

STAGE FACILITIES

STAGE

The Playhouse Theatre has a fixed Proscenium Arch with an adjustable header. Areas include the Main Stage, Forestage, Rear Stage and OP Stage areas.

There is a Single Purchase Counterweight Flying System – operated from prompt side of stage and forestage (no line of sight).

To allow for the use of trapdoors and heavy machinery, the stage floor is not sprung.

For dance productions, a 30mm thick portable "Biltfloor" sprung floor with black Tarkett covering is available.

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

STAGE DIMENSIONS

• Proscenium height	**Standard 7.0m, adjustable to maximum 8.6m**
• Proscenium width	**12m**
• Load-in door dimensions (from dock to stage)	**8.8m 3.7m**
• Apron depth	**1.2m**
• Forestage (Orchestra Pit) Lift depth along Centre Line	**3.4m**
• Height of stage level from Auditorium floor	**910mm**
• Stage depth to last flying line from Setting Line	**11.9m**
• PS Proscenium to fly rail PS	**6.5m**
• OP Proscenium to OP side stage wall	**12m**
• PS Proscenium Unistrut inserts (from opening)	**480mm + 980mm**
• OP Proscenium Unistrut inserts (from opening)	**500mm + 1000mm**
• Clear height from stage floor to underside Gallery One	**8.8m**
• Distance between PS and OP fly floors	**21.0m**
• Distance from Setting Line to Sound Curtain	**13.3m**
• Distance from Setting Line to back wall of rear stage	**22.4m**
• Setting Line to House Curtain	**410mm**
• Stage to underside Grid	**22.9m**
• Stage to Grid floor	**23.0m**
• Point load of removeable traps over main stage	**20 kN**

REAR STAGE

• Width of rear stage (wall to wall)	**17.3m**
• Depth of rear stage from Sound Isolation door	**8.9m**
• Height to ceiling of rear stage	**9.0m**
• Manual winch lines in rear stage **(500kg WLL)**	**4**
• Clear height under winched battens	**8.7m**

SIDE STAGE

• Width of side stage from fly rail over	**14.8m**
• Depth of side stage	**11.7m**
• Height to ceiling of side stage	**9.0m**

ACCESS

• Auditorium to stage access via pass door	**PS and OP**
• Crossover locations PS to OP	**Rear of stage** **Under stage** **Rear wall of galleries (3 levels)**

FLYING SYSTEM

• Flying Line Rope Locks at stage level PS	
• Maximum Weight per Counterweight Set with standard batten (500kg standard cradle + 200kg slave cradle)	**700kg**
• Maximum Weight per Counterweight Set with lighting batten (345kg standard cradle + 200kg slave cradle) • 15kg removed from cradle per reeler attached	**545kg** **590kg with 3x reelers**
• Six Line Pickup (3.0m centres)	**6mm wires**
• Number of flying lines in the Forestage	**5**
• Number of flying lines in the Main Stage	**80**
• Number of panorama bars each side (counterweight operated)	**2**
• Distance of panorama bars from Centre Line	**10.0m; 10.2m**
• Number of Panorama bars for lighting ladders each side (Electric Winch operated) 1 tonne UDL	**1**
• Distance of panorama bars from Centre Line	**9.5m**
• Batten dimensions	**75x50 RHS**
• Batten length	**17m long, extendable to 18.0m**
• Batten drift	**22.5m adjustable to 23.0m**
• Batten centres	**150mm**
• Stage to Grid winch (upstage OP)	**2000kg WLL**

Note – Line 1 (Black Wool Smoke Curtain) is a fixed position and must be able to fly to stage deck in event of an emergency, preventing smoke from passing into the auditorium.

HOUSE CURTAIN

• Counterweight operated PS	**C/W Line no. 3**
• French Action is available on request	
• Tyrian Purple velour with 100% fullness	

STAGE MASKING

LEGS

• Black wool flat – main stage	**12 of 5.0m x 11.0m**
• Black wool flat – rear stage	**6 of 2.0m x 9.0m**
• Black wool flat – panorama	**24 of 2.0m x 11.0m**
• Black wool flat (hard) – main stage	**12 of 2.4m x 8.5m**

BORDERS

• Black wool flat	**4 of 6.0m x 18.0m**
• Black wool flat	**4 of 4.0m x 18.0m**
• Black wool flat	**2 of 1.0m x 12.0m**
• Black wool flat	**3 of 2.0m x 18.0m**
• Black velour flat	**6 of 4.0m x 18.0m**

SMOTHERS

• Black wool flat – hung on Line 1 as Smoke Blanket	**1 of 11.0m x 16.0m**
• Black wool flat	**1 of 11.0m x 17.0m**
• Black wool flat	**1 of 9.0m x 17.0m**
• Black velour flat	**2 of 11.0m x 18.0m**

TABS

• Black wool flat – rear stage	**2 of 11.0m x 12.0m**

OTHER

• Cyclorama framed white plastic (fixed position 11.8m from Setting Line)	**1 of 10.0m x 18.0m**

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 Orchestra Pit List is split into 3 sections - PS, Centre, and OP. Each section is able to operate independently at all levels.

The Orchestra Pit layout can accommodate approximately **30** musicians.

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

Refer all rigging enquiries to the Manager Staging.

Please confirm all critical measurements on site.

LIGHTING FACILITIES

LIGHTING CONTROL

- ETC Eos Ti – 24K Lighting Console.
- ETC Gio – 24K Lighting Console available as backup on request.
- Remote Video Interface (RVI) available for LD client view.
- ETC Nomad USB Dongles available for hire on request, with 12 Universe parameter count.
- Base sACN network (with Artnet available) in various locations throughout the venue via ELC node system.
- Fibre-linked 24-port switches located in various locations. Managed network with Guest VLAN available.
- DMX patch points distributed throughout the venue on most levels and lighting locations. Connections via Ethercon patches (Cat 5e/6). Converters from RJ45 to 5-Pin XLR available.

GrandMA 2 Light can be hired subject to availability upon request. Note that MANet is no longer supported in this venue.

NETWORKING

- Core fibre-optic network throughout the venue with sACN as the primary protocol. Artnet is also supported upon request.
- ELC 8-port nodes (DLX8GBX) are located in the following positions:
    - 1x Lighting Control Room at the rear of the stalls.
    - 1x Fly Gallery One PS – downstage.
    - 2x Fly Gallery One OP – downstage.
- ELC 3-port nodes (DLN3S) are located in the following positions:
    - Bridges One, Two and Three and Four – OP end.
    - Balcony Rail – OP end.
    - Slots – Top level of Slot Two at dimmers. Hardwire patch extensions to top of Slot One and Three.
    - Stage level – Front-of-House Slot One
    - Stage level – Downstage and upstage corners, PS and OP
- ELC 1-port nodes (DLN1SF) are located in the following positions:
    - Bridge Four – PS end.
    - Front-of-House Dimmer Room
    - Grid Level Dimmer Room
    - Basement Dimmer Room
- Additional DMX Splitters can be made available upon request.

DIMMERS

- Front-of-House (flexible patching available, but enough dimmers for 1-to-1 circuiting):
  - 10A LSC TEKO – 192 circuits total.
- Slots (flexible patch panel):
  - PS 10A LSC TEKO – 48 circuits total.
  - OP 10A LSC TEKO – 48 circuits total.
- Grid Dimmer Room (hardwired to cable reelers for Spot Bars and Ladders):
  - 10A LSC TEKO – 288 circuits total.
  - 20A LSC TEKO – 66 circuits total.
- Fly Gallery One OP (flexible patch panel):
  - 10A LSC TEKO – 24 circuits total.
  - 20A LSC TEKO – 12 circuits total.
- Stage Basement (flexible patch panel):
  - 20A LSC TEKO – 60 circuits total.

AUXILIARY POWER

- 1x 400A Powerlock USOP.
- 1x 40A 3-phase outlet DSPS.
- 1x 40A 3-phase outlet DSOP.
- 2x 40A 3-phase outlets USPS.
- 2x 40A 3-phase outlets USOP.
- 1x 100A 'Marachel' Rear Stage PS.
- 1x 100A 'Marachel' Rear Stage OP.

FOLLOW SPOTS

- 3x Robert Juliat ARTHUR LED 800W Long Throw Follow Spots.
- The Follow Spot room is at the centre of Bridge Four.

HOUSE LIGHTS

- Crestron Control Panel System linked to Pharos DMX streamer.
- Control can be taken by sACN or DMX input as LTP through a Luminode-4 DMX Node.

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, Bridge Four
  - Balcony One Rail
  - Slot One, Slot Two, Slot Three (PS and OP)

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

- Stage:
  - 7x stage Spot Bars wired each with 30x 10A circuits, 3x 20A circuits and 3x 20A FX circuits.
  - 5x six rung lighting ladders PS and OP each, tracked on the lighting panorama bar. Each wired with 10x 10A circuits, 1x 20A circuit and 1x 20A FX circuit.
    - Rung spacing is 850mm. Note that this does not allow for MAC Encore Performance or Washes to be hung from this position.
  - Stage spot bars and ladders are fed from cable reelers from the grid.

ALLOCATED LIGHTING INTRUMENTS

FRONT OF HOUSE

Rigged and patched as standard	
• Bridge One	4x Robert Juliat ZEP 661SX WW LED 11/26° 12x Prolight Eclipse CT+ LED 15/30°
• Bridge Two	2x Robert Juliat ZEP 661SX WW LED 11/26° 18x Prolight Eclipse CT+ LED 15/30°
• Bridge Three	2x Robert Juliat ZEP 661SX WW LED 11/26° 18x Prolight Eclipse CT+ LED 15/30° 2x LED Worklight
• Bridge Four	2x Robert Juliat ZEP 661SX WW LED 11/26° 10x Prolight Eclipse CT+ LED 15/30°
• Balcony Rail	6x Prolight Eclipse CT+ LED 15/30°
• Slot One (PS and OP each)	2x (1ea) Robert Juliat ZEP 661SX WW LED 11/26° 10x (5ea) Prolight Eclipse CT+ LED 15/30°
• Slot One Perch Boom (PS and OP each)	6x (3ea) Prolight Eclipse CT+ LED 26°
• Slot Two • (PS and OP each)	4x (2ea) Robert Juliat ZEP 661SX WW LED 11/26° 20x (10ea) Prolight Eclipse CT+ LED 15/30°
• Slot Three • (PS and OP each)	2x (1ea) Robert Juliat ZEP 661SX WW LED 11/26° 10x (5ea) Prolight Eclipse CT+ LED 15/30° 2x (1ea) Martin MAC Encore Performance CLD

STAGE

• Boom Trolleys with 3.0m pipe (10 total) *Rigged and patched as standard*	40x (4ea) Prolight Eclipse CT+ LED 26°
• Stage allocated stock ***Not rigged, stored onsite***	16x Martin MAC Encore Performance CLD 16x Martin MAC Encore Wash CLD 16x Robert Juliat Dalis 860 Cyc Wash 4x Prolight Eclipse CT+ LED 15/30° 8x Prolight Eclipse CT+ 26°
• Ladder allocated stock ***Not rigged, stored onsite***	20x Prolight Eclipse CT+ 19° 10x Prolight Eclipse CT+ 26° 10x Martin Rush Par 2 RGBW Zoom

TOTAL ALLOCATION COUNTS

• Venue Allocation	**18x Robert Juliat ZEP 661SX WW LED 11/26°**
	108x Prolight Eclipse CT+ LED 15/30°
	20x Prolight Eclipse CT+ 19°
	64x Prolight Eclipse CT+ LED 26°
	16x Martin MAC Encore Performance CLD
	16x Martin MAC Encore Wash CLD
	16x Robert Juliat Dalis 860 Cyc Wash
	10x Martin Rush Par 2 RGBW Zoom

SOUND FACILITIES

• Mixing Console	**Yamaha DM7-EX (Analogue, Dante & MADI)**
• Stage Racks	**2 x Yamaha RIO 32/24**
• System Processing	**Direct Out Maven.A (Analogue, Dante & MADI)**
• Amplifiers	**6 x L-Acoustics LAX4** **2 x L-Acoustics LA8**
• Proscenium Speakers (PS and OP)	**3 x L-Acoustics ARC Wide per side**
• Centre Cluster Speakers	**2 x L-Acoustics ARC Wide** **2 x L-Acoustics ARC Focus**
• Front Fill Speakers	**6 x L-Acoustics 5XT**
• Sub Woofers	**4 x L-Acoustics SB18m**
• Stalls Delay Speakers	**4 x L-Acoustics 108P**
• Foldback Speakers	**4 x L-Acoustics X12**
• FX Speakers	**4 x Meyer UPM-1P**
• Playback Sources	**Qlab, Spotify, etc**
• Microphones	**8 x Dynamic Microphones**
• Communications	**ClearCom 4Ch Wired System** **ClearCom Freespeak II Wireless System (w/5 Packs)**
• Cue Lights	**Leon Audio 12 Ch System**
• Video Monitoring	**SD Colour View** **HD Colour View** **SD Low Light view** **SD Conductor View**
• Hearing Assistance/Audio Description	**Listen Tech FM** **Auri Auracast**

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