# Theatre Royal Hobart

## *Studio Theatre*

## **Technical Specifications**

Updated
1/3/22

<div style="border: 1px solid black; text-align: center; color: red; font-weight: bold;">
NOTE: Projection Screen specifications are TBC (To Be Confirmed).
The document will be updated as soon as they are confirmed.
</div>

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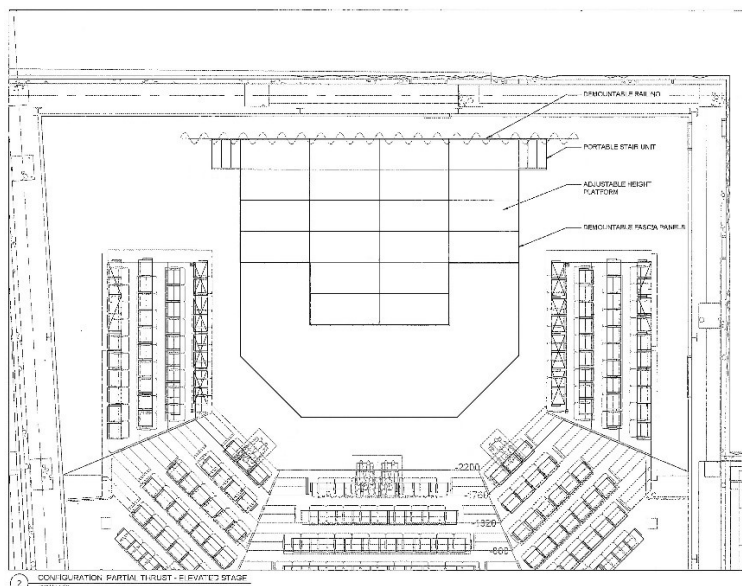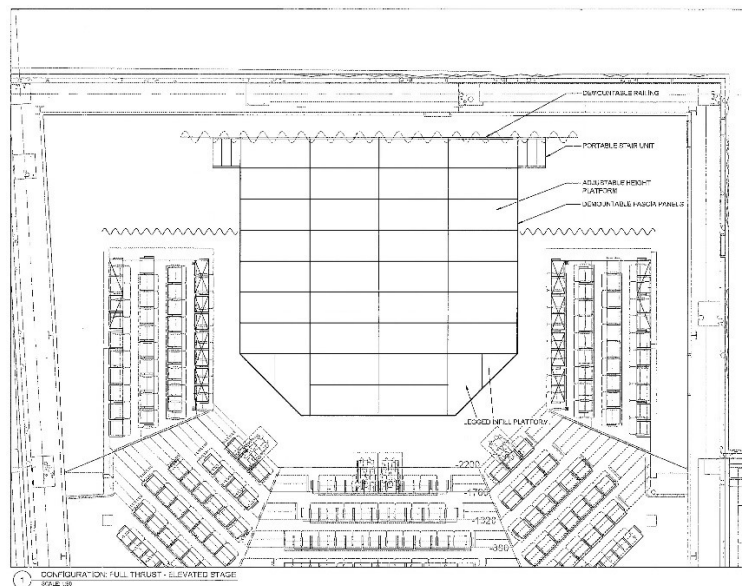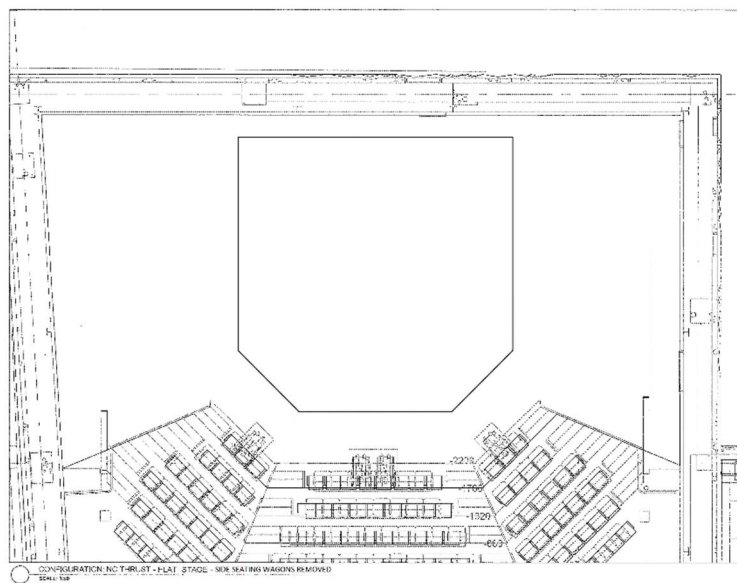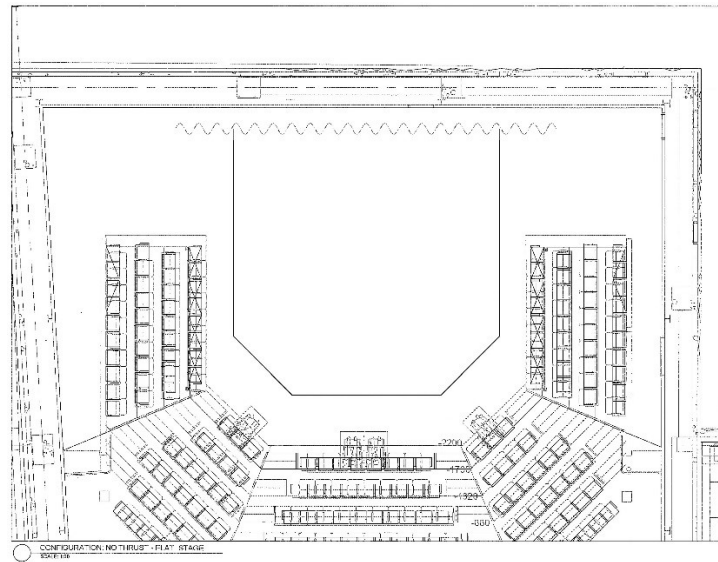       *Additional contact details are located on the final page*

## STAGE

Brief Description:

The Studio Theatre at the Theatre Royal Hobart is a contemporary "black box" style performance venue. Whilst used predominantly for thrust format, studio style, theatrical productions, the space offers a diversity of seating and staging configurations which make it suitable for a wide range of alternative uses.

The stage is unraked, with a plywood floor. On the stage area the ability to fix to the floor is limited. Please discuss this with the Theatre Technician.

Some example configurations are shown below:

CONFIGURATION: NO THRUST - ELEVATED STAGE



CONFIGURATION: NO THRUST - FLAT STAGE



CONFIGURATION: NO THRUST - FLAT STAGE - SIDE SEATING WAGONS REMOVED
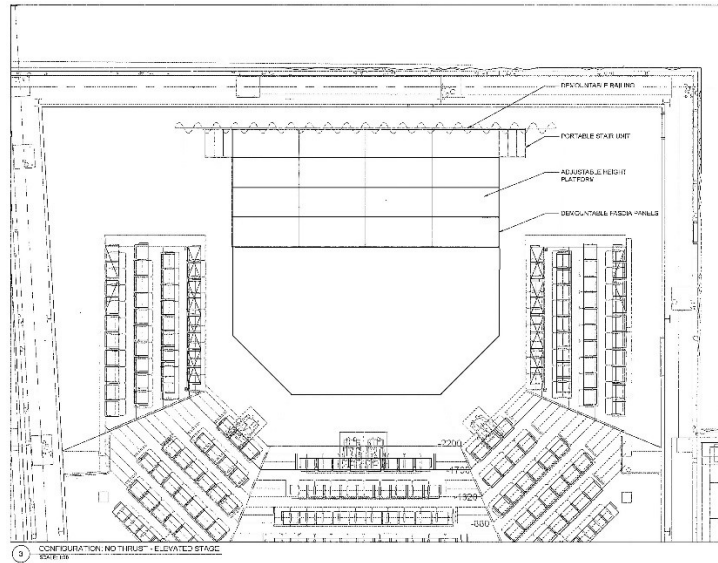
<u>Stage Dimensions:</u>

**Setting Line**

Downstage edge of the thrust stage.

**Thrust Stage**

The thrust stage comprises 32 x 1000mm x 2250mm manually adjustable platforms, which can be individually set at pre-set heights of 0, +300, +600 and +1000mm.

If the full thrust is in use, four (4) legged, custom shaped infill platforms are provided to fill the downstage corners (2 per side) with legs to 0, +300, +600 or +1000mm high.

**Ability to screw into the floor is limited. Please refer to the Studio Technician before securing any item to the floor.**

| | |
|---|---|
| Width/Depth | **9000mm wide x 9030mm deep** |
| Height | **Variable from Flat Floor Level (FFL) to FFL +1000mm.** |
| Stage Surface | **Plywood** |
| Vertical (Distributed) Load Limit | **760 kg/m$^2$** |
| Lateral Load Limit | **10% of the maximum Vertical load with the Vertical load imposed simultaneously** |
| Stage concentrated load limit | **460 kg** (concentrated over and area of 300mm x 300mm limited to the Distributed load) |
| Stage rake | **No** |

Fascias     **Removable fascia panels to cover all sides of risers that are visible to the audience at all height configurations.**

| Quantity | Length |
|:---:|:---:|
| **12** | **1000 mm** |
| **4** | **1410 mm** |
| **2** | **2500 mm** |
| **4** | **2250 mm** |

Guardrails     **Guardrails, 1100 mm high & totalling 9000mm in length, clamped to edge of rostra, are provided to protect the upstage edge of the stage when in a raised position.**

Steps     **Two (2) step units 1000mm wide, 300mm deep tread with handrails for all platform heights (300,600,1000mm)**

**Distance From** *(SL = Setting Line, CL = Centre Line)*

| Setting Line | Downstage edge of the thrust stage |
|---|---|
| SL to first fly line (Line 1) | **7450mm** |
| SL to last upstage fly line (Line 5) | **9460mm** |
| SL to rear stage | **9030mm** |
| Rear Stage to rear wall | **0710mm** |
| SL to rear wall | **9740mm** |
| SL to US end of Auditorium Acoustic Wing Walls (Stage Left) | **0750mm** |
| SL to US end of Auditorium Acoustic Wing Walls (Stage Right) | **-0140mm** |
| SL to Front Edge of Centre Seating Bank (Wheelchair in) | **1200mm** |
| CL to Onstage edge of Stage Left Seating Wagon (Seat Front) | **5330mm** |
| CL to Onstage edge of Stage Left Seating Wagon (inc footroom) | **4800mm** |
| CL to Stage Left rear of seating wagon | **9020mm** |
| CL to Stage Left Wall (at US end of seating wagon) | **9990mm** |
| Upstage end of Stage Left Seating Wagon to rear wall | **4280mm** |
| CL to Stage Left Side Wall (at rear wall) | **10000mm** |
| CL to Onstage Edge of Stage Right Seating Wagon (Seat Front) | **5300mm** |
| CL to Onstage edge of Stage Right Seating Wagon (inc footroom) | **4800mm** |
| CL to Stage Right rear of seating wagon | **8945mm** |
| CL to Stage Right Side Wall (at US end of seating wagon) | **10650mm** |
| Upstage end of Stage Right Seating Wagon to rear wall | **4280mm** |
| CL to Stage Right Side Wall (at rear wall) | **10950mm** |
| SL to DS edge of tension wire grid | **4830mm** |
| SL to US edge of tension wire grid | **7330mm** |
| Rear of edge of tension wire grid to rear wall | **2410mm** |
| CL to Stage Left edge of tension wire grid | **7550mm** |
| CL to Stage Right edge of tension wire grid | **7550mm** |
| Stage (FFL) to chain bag (fully retracted) | **9680mm** |
| Stage (FFL) to underside of tension wire grid steel | **8600mm** |
| Stage (FFL) to tension wire grid | **8710mm** |
| Stage (FFL) to upper side of tension grid steel | **8750mm** |
| Stage (FFL) to 48mm lighting bars* above tension grid (LX1-13) | **9840mm** |
| *Allows for no obstruction to movement of fully retracted chain hoist | |
| Stage (FFL) to underside of gantry beam for chain motors | **10670mm** |
| Stage (FFL) to upperside of gantry beam for chain motors | **10870mm** |

**Overhead obstructions**

Side Masking Traveller Track is permanently suspended from the underside of the technical galleries either side of the stage.

| | |
|---|---|
| Track extends from rear wall to downstage (PS) | **12000mm** |
| Track extends from rear wall to downstage (OP) | **12090mm** |

From rear wall, the Stage Left track returns to side wall at **2400mm, 6300mm, 8110mm** and **12090mm.** There is an 850mm onstage return 440mm from the rear wall.

From rear wall, the Stage Right track returns to side wall at **2300mm, 6060mm, 7950mm** and **12000mm**. There is a 750mm onstage return 470mm from the rear wall.

| | |
|---|---|
| Stage (FFL) to underside of track (Stage Left & Right) | **6790mm** |
| CL to onstage track (Stage Left) | **8070mm** |
| CL to middle track – rear seating bank (Stage Left) | **9020mm** |
| CL to offstage track – rear seating bank (Stage Left) | **9190mm** |
| USL (440mm off rear wall) the track returns onstage: | **0850mm** |
| CL to onstage track (Stage Right) | **8350mm** |
| CL to middle track – rear seating bank (Stage Right) | **9075mm** |
| CL to offstage track – rear seating bank (Stage Right) | **9245mm** |
| USR (470mm off rear wall) the track returns onstage: | **0750mm** |

Technical galleries present either side of the stage/auditorium:

| | |
|---|---|
| Stage (FFL) to underside of AC outlets (Stage Left & Right) | **7020mm** |
| Stage (FFL) to underside of walkway steels (Stage Left & Right) | **7500mm** |
| CL to onstage side of walkway (Stage Left) | **7960mm** |
| CL to offstage side of walkway (Stage Left) | **9250mm** |
| CL to onstage side of walkway (Stage Right) | **8250mm** |
| CL to offstage side of walkway (Stage Right) | **9550mm** |

Auditorium:

The auditorium houses 284 tiered seats at stalls and a balcony levels.

At stalls level: Total seating of 217 seats comprises fixed seating (143 seats) and two tiered seating banks (74 seats - 37 seats each bank) which can be quickly manoeuvred within the area of the auditorium or completely removed. The centre section of the stalls seating (75 seats) can be flown to access under seating storage.

At balcony level: Total seating comprises 67 fixed seats.

**Seating Capacity**:

350 (with reduced performance area).  This configuration requires the addition of 66 loose seats.

284 seats with side seating banks in place.

210 seats in end stage mode - without side seating banks in place.

**Hearing Loop**:

Yes – Induction loop - Ampetronic MLD5

Grid & Flying Facilities:

**Tension Wire Grid**

A tension wire grid  (15000mm wide x 12000mm deep) provides a working surface for overhead rigging and hanging theatrical lighting fixtures.

The tension wire grid comprises steel channels supporting a woven wire rope grid. The overall grid contains 20 square 'panels' of tension wire sections, each 2850mm x 2850mm  in a five wide (across stage) by four deep (US to DS) matrix, installed between structural steel supports. Each panel is capable of supporting up to 4 technicians at once or one maximum point load of 160 kg per panel.

Thirty (30) vertical, steel 48.3 mm OD Circular Hollow Section (CHS) grid hangers are located at the intersections of the grid panels. Forty-nine (49) demountable, horizontal lighting pipes (steel 48.3mm OD CHS) are provided to span from hanger to hanger.  Max height of horizontal pipes from tension wire grid to allow for unobstructed movement of chain hoists and trollies is +1050mm.

The downstage edge of the tension wire grid is 4830 mm downstage relative to the stage setting line. The upstage edge of the tension wire grid is 7330 mm upstage relative to the stage setting line. The offstage edges of the tension wire grid are located 7550mm offstage relative to the US/DS centre line of the stage.

**Flying System**

ABOVE GRID
Ten (10) gantry beams with one (1) x 1000kg capacity chain hoist and trolley per beam are provided above the grid floor. The overall chain length (underside motor to end hook) is 12450mm. Hoists are BGV-D8+ 2008 compliant for suspension over heads of people without static backup/sling.

Two (2) rolling gantry beams which support the chain hoists and trollies are positioned within each of the 5 Upstage/Downstage bays of the grid structure.  The undersides of the rolling beams are +1970mm above the tension wire grid.  At full retraction the hoist chain bag is +980mm above the tension wire grid. The out dead of the chain hoist hook is 7890mm above FFL and sits 850mm below the tension wire grid.

**NOTE:** The US limit of travel of the chain hoist trollies is 1550mm DS from the rear of grid, except the SL hoist which is 250mm DS from the rear of grid. Chain hoist trollies in bays 2 and 4 have DS limit of travel 1800mm US from the front of the grid, trollies in bays 1,3,5 have DS limit at the DS limit of the grid.

A centralised handheld controller provides power and control for all hoists and enables up to five (5) hoists to move simultaneously and will stop the movement of a group of hoists if any hoist becomes overloaded or fails. The system complies with BGV-C1.

Additional E-stop are located at upstage corner, stage left.

Two (2) additional 1000kg chain hoist are provided bringing the total available to 12.

## Upstage Motorised Line sets and Control System

Five (5) motorised line sets are provided upstage of the tension wire grid.

Each hoisted batten is 15100mm long, of 48.3mm O.D.CHS. Six (6) pickups per batten @3000mm spacing. i.e. either side of Centre Line +1500mm, +4500mm, +7500mm.

Maximum point WLL 100kg, maximum distributed WLL 350kg, maximum load 500kg.

Hoist maximum speed is 0.1 meters/per second. Only one hoist unit can be operated at a time.

Control equipment is operated from stage right on the Studio floor using a handheld pendant controller which incorporates an on/off key switch, ready light, fault light, individual hoist selector switch and e-stop.
Other E-stop stations are provided at the upstage corner, stage left.

## Centre Seating Bank Lifting System

Four (4) dedicated 2,500kg capacity chain hoists (Chain length 11000mm minimum) are utilized to lift the Centre Seating Section so that the Side Seating Wagons may travel into and out of the Wagon Storage area underneath the Seat bank. The frame of the centre seating bank incorporates lifting points coordinated with the chain hoist rigging points above.

## Fly System Details

| | |
|---|---|
| Primary operating position | **Stage right at stage level** |
| Additional operating positions | **Stage right catwalk, biobox, FOH mixing position** |
| Total number of lines | **Five** |
| Panorama Lines | **None** |
| Batten Drift | **FFL +400mm to FFL + 10500mm** |
| Batten type | **48.3mm O.D. Circular Hollow Steel (CHS)** |
| Batten length | **15100 mm** |
| Batten point load | **100kg** |
| Batten distributed load | **350kg** |
| Batten W.L.L. | **500kg** |
| Fly bars can be swung | **No** |

## Hanging Plot:

*SL: Setting Line as indicated previously  Line Type: **MW** = Motor Winch*

*W.L.L.: Maximum Working Load Limit (WLL) including bar weight*

| Line | Distance from SL | Distance b/n lines DS to US | Line Type | W.L.L | Venue Allocation | Intended Use *(hiring company use)* |
|---|---|---|---|---|---|---|
| **Note: Rear tension wire grid to line 1 = 0100mm** | | | | | | |
| 1 | 7450mm | - | MW | 500kg | | |
| 2 | 7900mm | 450mm | MW | 500kg | US Black Tab | |
| 3 | 8500mm | 600mm | MW | 500kg | | |
| 4 | 8960mm | 460mm | MW | 500kg | | |
| 5 | 9460mm | 500mm | MW | 500kg | | |
| | | | | | | |

## Drapery:

| *Type | Material | Colour | Width | Height | Quantity |
|---|---|---|---|---|---|
| Acoustic Drapes – Technical Catwalks | Wool Serge 0% Fullness (Flat) | Black | 17700 | 2400 | 2 |
| Up Stage Drape – on tab track | Wool Serge 50% Fullness | Black | 15100 (Total) 2 x 8000 Sections | 9000 | 1 |
| Borders | Wool Serge 0% Fullness (Flat) | Black | 15000 | 1100 | 6 |
| Legs | Wool Serge 0% Fullness (Flat) | Black | 4500 | 8500 | 4 pairs |
| Legs | Wool Serge 0% Fullness (Flat) | Black | 2150 | 8500 | 2 pairs |
| Side Tab Masking – on track | Wool Serge 0% Fullness (Flat) | Black | 3400 | 6600 | 3 pairs |
| Side Tab Masking – on track | Wool Serge 0% Fullness (Flat) | Black | 4500 | 6600 | 1 pair |
| Scrim - Black | Seamless sharks tooth cotton | Black | 13000 | 9000 | 1 |
| Scrim - White | Seamless sharks tooth cotton | White | 9000 | 9000 | 1 |
| Cyclorama | Seamless with cotton filled cloth | White | 13300 | 9000 | 1 |
| | | | | | |
| Storage bags | 800mm x 800mm | | | | 6 |
| Storage hampers | Road Case -1422mm x 570mmx 660mm (H) with slide in divider | | | | 2 |
| Tail Battens | 20nb Galvanised Pipe (OD 26.9mm) | | | | 12 metres |

## Additional Rigging Notes

All flown items must be rigged with rated equipment and is subject to approval by the venue representative. Certification by a licensed rigger may be required. Please consult the venue representative.

**Loose Rigging Equipment**: 12 x 2T Round Slings (2m), 24 x 3.2t Bow Shackles, 10 x 2T Beam Clamps

Access Equipment:

**Elevated Work Platform**

Genie AWP-30S push around vertical lift *Subject to availability

Maximum reach is **11.0 metres**

**EWP Restrictions**

WHS requirements require the operator to hold a current EWP licence.

Outriggers must be used at all times with one staff member located at the base whilst in use.

**Ladders**

1 x Bailey P170-7 Platform Ladder

Staging Units:

No loose staging units

Stage Covers:

No floor cloth or tarkett

Stage Traps:

None

Staging Notes:

Ability to screw into the floor is limited.  Please refer to the Studio Technician before securing any item to the floor.

Loading Dock:

**Access**

Truck access from Collins Street (between Campbell St and Sun St) to the Theatre Royal/Hedberg Loading Dock. Reverse up ramp on south eastern side of building. Articulated vehicles may require traffic management, please consult with venue management prior to arrival.  Large vehicles and articulated vehicle will need to approach the dock by driving down Collins Street in an easterly direction.

| | |
|---|---|
| Dock Leveller | **Yes: 0885mm** High (flat) **x 2132mm** Wide |
| Maximum clear height in Loading Dock | **4400mm** |
| Loading Dock Exterior Door Dimensions | **4470mm** High x **3380mm** Wide |

**Restrictions / Obstructions**

Loading dock is not at Studio Theatre level. Access to studio via goods lift located at rear of the Theatre Royal loading dock off Collins Street.

Goods lift dimensions:    Door Opening: **2190mm** wide x **2690mm** high
Depth with door closed: **5000mm** deep

Maximum diagonal length in lift **6100mm** top corner to bottom corner or **5400mm** flat corner to corner

Capacity: 5000 kgs

## LIGHTING

Positions:

### Stage LX Bars

Stage lighting bars are located above the tension wire grid. Thirty (30) vertical, steel 48.3 mm OD Circular Hollow Section (CHS) grid hangers are located at the intersections of the grid panels. Forty-nine (49) demountable, horizontal lighting pipes (steel 48.3mm OD CHS) and 98 pipe clamps are provided to span from hanger to hanger.

The maximum height of horizontal pipes above tension wire grid to allow for unobstructed movement of chain hoists and gantries is +1200mm.

*See theatre plans for standard LX bar locations*

**Orchestra Bar**                              **No**

### FOH Lighting Bar

Notes:  FOH lighting bars are located on the handrails of the technical galleries at the rear of the auditorium.  Access is from these galleries.

| | |
|---|---|
| FOH bar length | FOH bars are in 2 sections each beginning **2855mm** from centre.  Parallel with the setting line: |
| | Stage left <u>FOH 1</u> bar is **4700mm long** |
| | Stage left <u>FOH 2</u> bar is **5000mm long** |
| | Stage right <u>FOH 1</u> bar is **4800mm long** |
| | Stage right <u>FOH 2</u> is **5100mm long**. |
| | At their offstage extremities all bars return upstage **2540mm**. |
| Bar height | **FOH 1: FFL+ 9350mm (vertical measurement)** |
| | **FOH 2: FFL+ 8930mm (vertical measurement)** |
| FOH bar to Setting Line | **FOH1: 7770mm (horizontal measurement)** |
| | **FOH2: 8070mm (horizontal measurement)** |
| FOH bar to Setting Line (FFL) | **12175mm (throw distance)** |
| Angle to Setting Line (FFL) | **40 degrees** up from vertical |
| Angle to rear edge stage (FFL) | **60 degrees** up from vertical |

### Transverse (Catwalk) Bars

Notes:  Transverse bars are located on the handrails of the technical galleries (catwalks) on stage right and left.

| | |
|---|---|
| Stage Left bar lengths | <u>LX CW 1</u>: **9490mm** from downstage edge of grid to 500mm short of the downstage side of grid access stair and **650mm** from the upstage edge of grid downstage to 400mm short of the upstage side of grid access stair. |
| | <u>LX CW 2</u>: **9990mm** from downstage edge of grid to downstage side of grid access stair (top & bottom bar) |

and **650mm** from upstage side of grid access to upstage edge of grid (top & bottom bar)

LX CW 3**:** From rear wall **2850mm** long DS.

Stage Left bar heights

LX CW 1: **FFL + 8550mm**
LX CW 2: **FFL + 8350mm**
LX CW 3: **FFL + 9750mm**

Stage Left bars to Centre Line - horizontal measurement

LX CW 1: **7560mm**
LX CW 2: **7860mm**
LX CW 3: **7960mm**

LX CW 1 to SR offstage edge (FFL)        **9075mm (throw distance) Angle: 20 deg**

LX CW 1 to Centre Line (FFL)        **11430mm (throw distance) Angle: 41 deg**

Stage Right bar lengths        LX CW 4 & LX CW 5: **9900mm** from downstage edge of grid to downstage side of grid access stair (top & bottom bar) and **600mm** from upstage side of grid access to upstage edge of grid (top & bottom bar)

LX CW 6**:** From rear wall **2800mm** long DS.

Stage Right bar heights – vertical measurement

LX CW 4: **FFL + 8800mm**
LX CW 5: **FFL + 8350mm**
LX CW 6: **FFL + 9720mm**

Stage Right bar to Centre Line - horizontal measurement

LX CW 4: **7850mm**
LX CW 5: **8150mm**
LX CW 6: **8250mm**

LX CW 4 to SR offstage edge (FFL)        **9390mm (throw distance) Angle: 20.5 deg**

LX CW 4 to Centre Line (FFL)        **11800mm (throw distance) Angle: 42 deg**

Lighting Control:

Lighting desk        **ETC ION XE 12K Lighting Console with ETC EOS Fader Wing 40**

Control channels        **12288 Outputs/Parameters, 32,768 Channels**

Signal output        **Four DMX-512 / RDM ports**

**Ethernet (ETCNet2™, Net3™,Artnet and Avab UDP output protocols)**

Signal distribution        **DMX input locations:**

2 x DMX inputs Bio box

2 x DMX inputs at temporary FOH position rear stalls

2 x DMX inputs at temporary position balcony (under AA16)

**DMX output:**

Either direct to DMX inputs or over Ethernet (sACN) which is distributed throughout the studio. Conversion of sACN to DMX is achieved through 8 x portable 2-Port DMX, Net3 Touring gateways. Nominally, 4 x Net3 are located in theatre grid and 4 x Net3 are located at stage level. See patching LX Patching for details of sACN outlets.

Remote riggers     **Apple iPad with remote software**

Remote Video Station **ETC NET3-RVI3 NET3 Remote Video Interface**

## Control Positions:

**Bio Box**

Rear of auditorium at grid level.  Behind glass. Dedicated position, no seats pulled.

**Auditorium – FOH Mixing Position**

Rear of stalls: Rows F & G

Total seat allocation: 8 Seats (Row F 17-22, Row G 7-8)

**NOTE: If your performance is using the FOH mixing position ensure that these seats have been allocated prior to the show going on sale.**

**Auditorium – Production Desk**

Middle of stalls: Row C or Middle Balcony Row AA

## Dimmer Racks:

| | |
|---|---|
| **Total dimmers** | 192 |
| **Dimmer model** | ETC Sensor 3 – ETR10AFR - 2.3kW |
| **Dimmer Locations** | Dimmer room located Stage Left adjacent to Bio Box |

## House Lights:

| | |
|---|---|
| Independent control | Yes & controllable through the lighting console. |
| Control positions | Various including biobox, SM corner etc |
| Fade time adjustable | Yes |

## Stage Luminaires:

### Profiles

| Make | Model | Angle | Detail / Accessories | Watt | Total |
|------|-------|-------|----------------------|------|-------|
| ETC | Source Four | 15-30 deg | 24 Gobo holders for A size gobos, 36 top hats, 10 drop-in iris', 26 Balancing Yokes | 750w | **54** |
| ETC | Source Four | 25-50 deg | | 750w | **18** |
| | | | | | |

### Fresnel's

| Make | Model | Detail / Accessories | Watt | Total |
|------|-------|----------------------|------|-------|
| ETC | Source Four 150mm -175mm Fresnel | 24 Barndoors | 750w | **24** |
| | | | | |

### Pars

| Make | Model | Angle | Detail / Accessories | Watt | Total |
|------|-------|-------|----------------------|------|-------|
| ETC | PAR EA | VNSP, NSP, MFL, WFL | Four lenses for each unit: Very Narrow Spot (VNSP), Narrow Spot (NSP), Medium Flood (MFL) and Wide Flood (WFL). Round beam for VNSP and NSP, oblong beam shape for MFL and WFL. 24 Barndoors | 750w | **24** |
| ETC | ColorSource PAR - LED Deep Blue | 14.5 deg | Red/Green/Indigo/Lime | 90w | **28** |
| | Maximum DMX channels per fitting (RGBL, Intensity & Strobe) | | | 6 | |
| | | | | | |

### Wash

| Make | Model | Detail / Accessories | Watt | Total |
|------|-------|----------------------|------|-------|
| **Chroma-Q** | Colour Force II 72 LED Strip Lights | 1760mm Length, 12 RGBA Cells x 24 LEDs | 800w | **9** |
| | Maximum DMX channels per fitting (RGBA, Strobe on top & random) | | 11 | |
| | | | | |

### Movers

| Make | Model | Control Channels | Detail / Accessories | Watt | Total |
|------|-------|------------------|----------------------|------|-------|
| **Robin** | T1 Wash | | RGBAL LED 7-50deg, 2700-8000K | 550w | **8** |
| | Maximum DMX channels per fitting (RGBA,Light Green) | | | 39 | |
| | | | | | |

## Followspots:

| Make | Model | Angle | Detail / Accessories | Watt | Total |
|------|-------|-------|----------------------|------|-------|
| **USHIO** | SAI 500CB (LED TBC) | 1.9 metres diameter at 20 metres | DMX Controllable, 5800K, | 440w | **2 \*** |
| **\*Subject to availability as shared on precinct** | | | | | |

Additional Lighting:

| Item | Make | Model | Detail / Accessories | Watt | Total |
|------|------|-------|---------------------|------|-------|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

LX Patching:

## Lighting Outlets

### Grid & Catwalks

| Location | Quantity | Outlet Numbers | Detail / Accessories |
|----------|----------|----------------|---------------------|
| **Grid** Stage Left Bay (US) | 6 | 001 to 006 | Socapex & single 240s (Paralleled) |
| **Catwalk** Stage Left (US) | 6 | 007 to 012 | Socapex & single 240s (Paralleled) |
| **Catwalk** Stage Left (MS) | 6 | 013 to 018 | Socapex & single 240s (Paralleled) |
| **Catwalk** Stage Left (DS) | 6 | 019 to 024 | Socapex & single 240s (Paralleled) |
| **FOH Catwalk** LX Bar Stage Left | 6 | 025 to 030 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left Bays (US) | 6 | 031 to 036 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left Bays (MS) | 6 | 037 to 042 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left Bays (MS) | 6 | 043 to 048 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left Bays (DS) | 6 | 049 to 054 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left Bays (DS Front) | 6 | 055 to 060 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left/Centre Bays (US) | 6 | 061 to 066 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left/Centre Bays (MS) | 6 | 067 to 072 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Left/Centre Bays (DS) | 6 | 073 to 078 | Socapex & single 240s (Paralleled) |
| **Grid** Centre Bays (US) | 6 | 079 to 084 | Socapex & single 240s (Paralleled) |
| **Grid** Centre Bays (MS) | 6 | 085 to 090 | Socapex & single 240s (Paralleled) |
| **Grid** Centre Bays (DS) | 6 | 091 to 096 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right/Centre Bays (US) | 6 | 097 to 102 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right/Centre Bays (MS) | 6 | 103 to 108 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right/Centre Bays (MS) | 6 | 109 to 114 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right/Centre Bays (DS) | 6 | 115 to 120 | Socapex & single 240s (Paralleled) |
| **Grid** (DS Stage Right/Centre Bay) | 6 | 121 to 126 | Socapex & single 240s (Paralleled) |
| **FOH Catwalk** LX Bar Stage Right | 6 | 127 to 132 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right Bays (DS) | 6 | 133 to 138 | Socapex & single 240s (Paralleled) |
| **Grid** Stage Right Bays (US) | 6 | 139 to 144 | Socapex & single 240s (Paralleled) |
| **Catwalk** Stage Right (MS) | 6 | 145 to 150 | Socapex & single 240s (Paralleled) |
| **Catwalk** Stage Right (DS) | 6 | 151 to 156 | Socapex & single 240s (Paralleled) |
|  |  |  |  |

### Stage Level

| Location | Quantity | Outlet Numbers | Detail / Accessories |
|----------|----------|----------------|---------------------|
| **Rear Wall** US Stage Left | 12 | 157 to 168 | Socapex & single 240s (Paralleled) |
| **Rear Wall** US Stage Right | 12 | 169 to 180 | Socapex & single 240s (Paralleled) |
| **Side Wall** Stage Left | 4 | 181 to 184 | Socapex & single 240s (Paralleled) |
| **Side Wall** Stage Right | 4 | 185 to 188 | Socapex & single 240s (Paralleled) |
| **Under Seating Void** Stage Right | 2 | 189 to 190 | Socapex & single 240s (Paralleled) |
| **Under Seating Void** Stage Left | 2 | 191 to 192 | Socapex & single 240s (Paralleled) |
|  |  |  |  |

## sACN Outlets

| Stage Level & Auditorium | | | |
|---|---|---|---|
| Location | Quantity | Outlet Numbers | Detail / Accessories |
| **Rear Wall** US Stage Right | 2 | 01 to 02 | Cat 6A - EtherCON |
| **Rear Wall** US Stage Left | 2 | 03 to 04 | Cat 6A - EtherCON |
| **Side Wall** Stage Right | 2 | 05 to 06 | Cat 6A - EtherCON |
| **Side Wall** Stage Left | 2 | 07 to 08 | Cat 6A - EtherCON |
| **Under Seating Void** Stage Right | 2 | 09 to 10 | Cat 6A - EtherCON |
| **Under Seating Void** Stage Left | 2 | 11 to 12 | Cat 6A - EtherCON |
| | | | |
| **Rear Auditorium** (FOH Op. Position) | 3 | 13 to 15 | Cat 6A - EtherCON |
| **Auditorium Balcony** (under seat AA16) | 2 | 17 to 18 | Cat 6A - EtherCON |
| | | | |
| Grid, Catwalks & Biobox | | | |
| **Grid** Stage Right Bay Rear Grid | 1 | 19 | Cat 6A - EtherCON |
| **Grid** Stage Right Bay (US) | 1 | 21 | Cat 6A - EtherCON |
| **Grid** Stage Right Bay (MS) | 1 | 23 | Cat 6A - EtherCON |
| **Grid** Stage Right Bay (DS) | 1 | 25 | Cat 6A - EtherCON |
| **FOH Catwalk** LX Bar Stage Right | 1 | 27 | Cat 6A - EtherCON |
| **FOH Catwalk** LX Bar Stage Left | 1 | 29 | Cat 6A - EtherCON |
| **Catwalk** Stage Left (MS) | 1 | 31 | Cat 6A - EtherCON |
| **Catwalk** Stage Left (DS) | 1 | 33 | Cat 6A - EtherCON |
| **Grid** Stage Left Bay Rear Grid | 1 | 35 | Cat 6A - EtherCON |
| **Catwalk** Stage Left (US) | 1 | 37 | Cat 6A - EtherCON |
| **Grid** Stage Right/Centre Bays (US) | 1 | 39 | Cat 6A - EtherCON |
| **Grid** Stage Left/Centre Bays (US) | 1 | 41 | Cat 6A - EtherCON |
| **Grid** Stage Right/Centre Bays (MS/US) | 1 | 43 | Cat 6A - EtherCON |
| **Grid** Stage Left/Centre Bays (CS) | 1 | 45 | Cat 6A - EtherCON |
| **Grid** Stage Right/Centre Bays (CS) | 1 | 47 | Cat 6A - EtherCON |
| **Grid** Stage Left/Centre Bays (MS/US) | 1 | 49 | Cat 6A - EtherCON |
| **Grid** Stage Right/Centre Bays (MS/DS) | 1 | 51 | Cat 6A - EtherCON |
| **Grid** Stage Left/Centre Bays (MS/DS) | 1 | 53 | Cat 6A - EtherCON |
| **Grid** Stage Right/Centre Bays (DS) | 1 | 55 | Cat 6A - EtherCON |
| **Grid** Stage Left/Centre Bays (DS) | 1 | 57 | Cat 6A - EtherCON |
| **Biobox** Under bench | 3 | 59 to 61 | Cat 6A - EtherCON |
| | | | |

## Production Desk:

Production desk can be set-up in the centre of the stalls.

## Temporary Power Outlets

Temporary Power distribution boards are located:

a) **Rear Wall Corner Upstage Right**:
   1 x 200Amp 3phase supply terminated in 5 x European single phase camlock connectors – Flange outlet plugs.

b) **Upstage Side Wall Stage Left:**
   1 x 200Amp 3phase supply terminated in 5 x European single phase camlock connectors – Flange outlet plugs.
   1 x 100Amp 3phase supply terminated in 3 x 40Amp 3 phase outlets.

## Cabling:

**EtherCON Cat 6a network cable**
   8 x  2 metre

6 x   5 metre
2 x 10 metre
2 x 15 metre

**Cat 6a Extension Coupler**
2 x Neutrik NE8FFX6-W etherCON CAT6A Feedthrough Coupler for Cable Extension

**DMX 5pin Cable**
50 x   2 metre
10 x   5 metre
10 x 10 metre
 4 x 15 metre
 2 x 20 metre

**240v Extension Cable**
30 x   2 metre, 10 Amp
30 x   5 metre, 10 Amp
20 x 10 metre, 10 Amp
 6 x 20 metre, 10 Amp

**Looms**
18 x 6 circuit x 5 metre Socapex Extension Cable Male to Female (20 Amp rating)
10 x 6 circuit x 10 metre Socapex Extension Cable Male to Female (20 Amp rating)
10 x 6 circuit x 20 metre Socapex Extension Cable Male to Female (20 Amp rating)

30 x Male 6 Circ Socapex to Female 1 circ fanout 2m
10 x Female 6 Circ Socapex to Male 1 circ fanout 1m

**3 phase Extensions**
None

Lighting Notes:
Additional lighting equipment may be available upon request.  Please consult the Studio Theatre Technician.

## AUDIO

Control Positions:

**Bio Box**

Rear of auditorium at grid level.  Behind glass. Dedicated position, no seats pulled.
Monitoring via two (2) Genelec 8030B Near Field Studio Monitors

**Auditorium**

Rear of stalls @ stage right of centre of Rows F & G

Total seat allocation    **8 Seats (Row F 17-21, Row G 7-8)**

NOTE: Ensure audio seats have been allocated prior to show going on sale.

**Other**

Small auxiliary desks being toured can be accommodated as required

Stage Boxes

**Stage Boxes**

One (1) Yamaha Rio 3224-D I/O Box - 32 in/16 out, 4 AES/EBU out
One (1) Yamaha Rio 1608-D I/O Box - 16 in/8 out  (located in biobox rack)

Control & Amplification:

**Primary Mixer**

Yamaha CL5:
- **Channels:** 32 + 2 master faders, 72 mono channel mixing plus 8 stereo channels
- **Inputs - Mic Preamps:** 8 x XLR
- **Phantom Power:** 8
- **Outputs - Other:** 8 x XLR (line out)
- **Inputs - Digital:** 2 x RJ-45 (Dante)
- **Outputs - Digital:** 2 x RJ-45 (Dante), 1 x XLR (AES/EBU)
- **Busses/Groups:** 16 send Mix bus, 8 send Matrix bus
- **Channel Inserts:** Internal
- **Talkback:** 1 x XLR
- **MIDI I/O:** In/Out
- **Data I/O:** 1 x D-Sub GPI (15-pin female), 1 x Ethernet
- **USB:** 1 x USB Type A
- **Computer Connectivity:** Ethernet
- **I/O Expansion Slots:** 3 x Card slots available (DSP cards or mini-YGDAI cards)
- **Headphones:** 1 x 6.35mm
- **Word Clock:** In/Out
- **Faders:** 26 x 100mm faders
- **EQ Bands:** 4-band parametric channel EQ, 31-band Graphic EQ, 15-band flex EQ,
- **Effects:** Reverbs, Delays, Modulation, Premium Rack compressor modelling
- **DAW Control:** Yes (via Dante)
- **Height:** 299mm
- **Depth:** 667mm
- **Width:** 1053mm
- **Weight:** 36kg
- **Manufacturer Part Number:** CL5

**Signal Processing**

Meyer Galileo 616 DSP, Six inputs (analogue, AES/EBU, or mixed) and 16 analogue
outputs

**Amplifiers**

All in-house Meyer Speakers are self-powered.
No additional amplifiers are supplied.

**EQ**

Main System EQ thru Meyer Galileo 616
Additional EQ thru Yamaha CL5

**FX**

Thru Yamaha CL5

**Compression / Limiter / Gates**

Thru Yamaha CL5

Speakers:

**FOH Speakers (Standard Speaker Position)**

Two (2) Meyer UPQ-1P flown above grid floor
One (1) Meyer 900LFC subwoofer flown above grid floor
Three (3) Meyer UPJ-1P flown above grid floor for balcony fill speakers.
Two (2) Meyer UPJunior flown above grid floor for side seating wagons.

**Foldback**

Four (4) LÁcoustic 108P Self powered coaxial enclosures

Playback:

| Item | Make | Model | Detail | Total |
|------|------|-------|--------|-------|
| **Denon** | DN-500BD | Blu Ray Player | | **1** |
| | | | | |

Microphones:

| Make | Model | Detail / Accessories | Use | Total |
|------|-------|----------------------|-----|-------|
| **Sennheiser** | SK500 G4 (Gw: 558 – 626 MHz) | Digital Wireless Microphone Receiver | Vocal | **4** |
| **Sennheiser** | SK500 G4 (Gw: 558 – 626 MHz) | Wireless Bodypack Transmitter | Vocal | **4** |
| **Sennheiser** | SKM500 G4 (Gw: 558 – 626 MHz) | Wireless Handheld Transmitter | Vocal | **2** |
| **DPA** | CORE 4066C | Omni Headset Microphone, Beige | | **4** |
| **Sennheiser** | MX412CX | Lectern Condenser Microphone | Vocal | **1** |
| **Sennheiser** | MKH 8060 | Short Shotgun Microphone | Program Feed | **1** |
| **AKG** | **414B – XL2 \*** | | **Choir Vocal** | **2** |
| **AKG** | **C3000 B \*** | | **Choir Vocal** | **2** |
| **AKG** | **C1000 S \*** | | | **4** |
| **Shure** | **SM58 \*** | | **Vocal** | **2** |
| **Shure** | **Beta 58 \*** | | **Vocal** | **2** |
| **Shure** | **SM57 \*** | | **Instrument** | **2** |
| **Shure** | **Beta 52A \*** | | **Kick Drum** | **1** |
| **Beyer** | **M-600 \*** | | **Vocal** | **2** |
| **\*Shared with Main Stage, Subject to availability** | | | | |

Accessories:

| Item | Model | Detail / Accessories | Total |
|------|-------|----------------------|-------|
| **Sennheiser Mounted Wideband Antenna** | A 2003 UHF | 400 – 960 MHz – mounted DS edge grid floor | **2** |

| Sennheiser EM/SR-ew UHF Antenna | | Standalone Antenna | 4 |
|---|---|---|---|
| **BSS Audio** | AR133 | Active DI Box | **4** |
| **Rechargeable Batteries & charger** | | | **Nil** |
| | | | |

## Audio Patching:

See patching section after AV

## Speaker Patching:

See patching section after AV

## Cabling:

**Microphone Cable (3pin XLR)**
10 x 2.5 metre
10 x 5 metre
10 x 10 metre

## Additional Stage Boxes

One (1) Yamaha Rio 3224-D I/O Box - 32 in/16 out, 4 AES/EBU out

## Audio Notes:

Additional microphones, microphone stands etc may be available upon request.
Please consult the Studio Theatre Technician.

## AUDIO VISUAL

### Main AV Patching Position:
Bio Box at grid level

### Control Positions:
**Bio Box**

Rear of auditorium at grid level.  Behind glass. Dedicated position, no seats pulled.

**Auditorium**

Rear of stalls @ Rows F & G

Total seat allocation:   **8 Seats (Row F 17-22, Row G 7-8)**

**NOTE:** Row G 6 will have very limited viewing and may best be removed from sale.

**NOTE:** Ensure seats have been allocated prior to show going on sale.

**Other**

Balcony: Desk in Row AA 14-18, Seating in Row BB 13-17.  Patching under AA16.

**NOTE:** View of stage may be limited in this position.

### Projectors:

| Type | Model | Detail / Accessories | Total |
|---|---|---|---|
| **Panasonic** | PT-RZ120B | 12,000 ANSI Lumen – WUXGA (1920x1200) resolution. 16:10 Native Aspect Ratio. Lens: **ET-DLE250** | 1 |
| | | | |

### Screens: TBC
**Projection Screen**

Stumpfl Fast-Fold Vario 64 16:9 Front Project with flying kit

Screen dimensions      460cm x 270cm (Outside frame)

440cm x 250cm (Inside frame)

**Additional Screens**

None

### AV Playback Equipment:

| Item | Model | Detail / Accessories | Total |
|---|---|---|---|
| **Denon** | DN-500BD | Blu Ray Player | 1 |
| | | | |

### Projector Rigging Points:
Projector located in a custom housing incorporated under balcony floor toward rear of stalls.

Screen is flown and can be hung at a variety of points in grid or from US flying bar.

Cabling:

Please consult the Studio Theatre Technician.

Audio Visual Notes:

1 x Extron SMP-311 Streaming and recording processor.

1 x Crestron DMPS3-4K-350-C Digital Media Presentation System

## AUDIO, VIDEO, NETWORK (cat 6a), FIBRE, COMMS &Q LX LINE PATCHING

| Location | Panel ID | Patch IDs | Type | Quantity | Detail |
|---|---|---|---|---|---|
| **Auditorium & Stage** | | | | | |
| **NOTE: Cat 6 EtherCON wall connector NE8FDY-C6-B  only receives NEUTRIK NE8MC6-MO-1 connector or generic RJ45 connector, not compatible with Cat 6A NE8MX6 or NE8MC connector** | | | | | |
| Upstage Stage Right Rear Wall | ST-N3-001 | ST-A-1001 to ST-A-1016 | Audio | 16 | XLR (Male & Female) |
| | | ST-V-3001 to ST-V-3004 | Video | 4 | BNC Coaxial |
| | | ST-N-6001 to ST-N-6002 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4001 | Network | 1 | STP Cat 6 - EtherCON |
| | | ST-S-4002 | Audio (Lectern) | 1 | 4-PIN XLR for lectern in |
| | | ST-SF-5001 to ST-SF-5002 | Network | 2 | Single Fibre – OpticalCON |
| | | ST-C-7001 to ST-C-7002 | Comms | 2 | XLR Male |
| | | | | | |
| Upstage Stage Left Rear Wall | ST-N3-002 | ST-A-1017 to ST-A-1032 | Audio | 16 | XLR (Male & Female) |
| | | ST-V-3005 to ST-V-3008 | Video | 4 | BNC Coaxial |
| | | ST-N-6003 to ST-N-6004 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4003 to ST-S-4004 | Network | 2 | STP Cat 6 - EtherCON |
| | | ST-SF-5003 to ST-SF-5004 | Network | 2 | Single Fibre – OpticalCON |
| | | ST-C-7003 to ST-C-7004 | Comms | 2 | XLR Male |
| | | | | | |
| Stage Left in Auditorium (End of Fixed Seating Bank) | ST-E3-003 | ST-Q-8001 | Cue LX | 1 | XLR 3pin Female |
| | | | | | |
| Stage Left in Auditorium (End of Fixed Seating Bank) | ST-E3-004 | ST-A-1033 to ST-A-1048 | Audio | 16 | XLR (Male & Female) |
| | | ST-V-3009 to ST-V-3012 | Video | 4 | BNC Coaxial |
| | | ST-N-6005 to ST-N-6006 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4005 to ST-S-4006 | Network | 2 | STP Cat 6 - EtherCON |
| | | ST-SF-5005 to ST-SF-5006 | Network | 2 | Single Fibre – OpticalCON |
| | | | | | |

| Location | Plate | Circuit Range | Type | Qty | Connector |
|---|---|---|---|---|---|
| Stage Right in Auditorium (End of Fixed Seating Bank) | ST-W3-006 | ST-A-1049 to ST-A-1064 | Audio | 16 | XLR (Male & Female) |
| | | ST-V-3013 to ST-V-3016 | Video | 4 | BNC Coaxial |
| | | ST-N-6007 to ST-N-6008 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4007 to ST-S-4008 | Network | 2 | STP Cat 6 - EtherCON |
| | | ST-SF-5007 to ST-SF-5008 | Network | 2 | Single Fibre – OpticalCON |
| | | | | | |
| Upstage Stage Right Side Wall | ST-W3-005 | ST-Q-8002 | Cue LX | 1 | XLR 3pin Female |
| | | | | | |
| Centre Rear Auditorium - FOH Mixing Position | ST-S4-007 | ST-A-1065 to ST-A-1068 | Audio | 4 | XLR (Male & Female) |
| | | ST-V-3017 to ST-V-3020 | Video | 4 | BNC Coaxial |
| | | ST-N-6009 to ST-N-6010 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4009 to ST-S-4012 | Network | 4 | STP Cat 6 - EtherCON |
| | | ST-SF-5009 to ST-SF-5010 | Network | 2 | Single Fibre – OpticalCON |
| | | ST-C-7005 to ST-C-7006 | Comms | 2 | XLR Male |
| | | | | | |
| Studio Foyer | ST-S4-008 | ST-C-7007 | Comms | 1 | XLR 3pin Male |
| | | ST-Q-8003 | Cue LX | 1 | XLR 3pin Female |
| | | | | | |
| Stage Left Rear Auditorium (Balcony) | ST-E5-009 | ST-A-1069 to ST-A-1070 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3021 to ST-V-3022 | Video | 2 | BNC Coaxial |
| | | ST-S-4013 to ST-S-4014 | Network | 2 | STP Cat 6 - EtherCON |
| | | ST-C-7008 to ST-C-7009 | Comms | 2 | XLR Male |
| | | | | | |
| Balcony Front centre | ST-S5-010 | ST-V-3023 to ST-V-3024 | Video | 4 | BNC Coaxial |
| | | ST-N-6011 to ST-N-6012 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4015 to ST-S-4016 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Balcony Front centre | ST-S5-011 | ST-A-1071 to ST-A-1074 | Audio | 4 | XLR (Male & Female) |
| | | ST-V-3025 to ST-V-3026 | Video | 2 | BNC Coaxial |
| | | ST-S-4017 to ST-S-4018 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Stage Right Rear Auditorium (Balcony) | ST-W5-012 | ST-A-1075 to ST-A-1076 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3027 to ST-V-3028 | Video | 2 | BNC Coaxial |
| | | ST-S-4019 to ST-S-4020 | Network | 2 | STP Cat 6 - EtherCON |

| | | ST-C-7010 to ST-C-7011 | Comms | 2 | Male XLR |
|---|---|---|---|---|---|
| | | | | | |

| **Grid** | | | | | |
|---|---|---|---|---|---|
| Upstage Grid Ceiling Stage Right | **ST-N6-013** | **ST-A-1077 to ST-A-1078** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3029 to ST-V-3030** | Video | 2 | BNC Coaxial |
| | | **ST-S-4021 to ST-S-4022** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Upstage Grid Ceiling Centre | **ST-N6-014** | **ST-A-1079 to ST-A-1080** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3031 to ST-V-3032** | Video | 2 | BNC Coaxial |
| | | **ST-S-4023 to ST-S-4024** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Upstage Grid Ceiling Left | **ST-N6-015** | **ST-A-1081 to ST-A-1082** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3033 to ST-V-3034** | Video | 2 | BNC Coaxial |
| | | **ST-S-4025 to ST-S-4026** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Upstage Grid Stage Right | **ST-N6-016** | **ST-A-1083 to ST-A-1084** | Audio | 2 | XLR (Male & Female) |
| | | | | | |
| Upstage Grid Centre | **ST-N6-017** | **ST-A-1085 to ST-A-1086** | Audio | 2 | XLR (Male & Female) |
| | | | | | |
| Upstage Grid Stage Left | **ST-N6-018** | **ST-A-1087 to ST-A-1088** | Audio | 2 | XLR (Male & Female) |
| | | | | | |
| Midstage Grid Stage Right | **ST-N6-019** | **ST-A-1089 to ST-A-1090** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3035 to ST-V-3036** | Video | 2 | BNC Coaxial |
| | | **ST-S-4027 to ST-S-4028** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Midstage Grid Centre | **ST-N6-020** | **ST-A-1091 to ST-A-1092** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3037 to ST-V-3038** | Video | 2 | BNC Coaxial |
| | | **ST-S-4029 to ST-S-4030** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Midstage Grid Stage Left | **ST-N6-021** | **ST-A-1093 to ST-A-1094** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3039 to ST-V-3040** | Video | 2 | BNC Coaxial |
| | | **ST-S-4031 to ST-S-4032** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Midstage Grid Stage Right - Stage Right Wagon Fill Speaker | **ST-N6-022** | **ST-R-1301** | Audio Return | 1 | XLR Male |

| | | | | | |
|---|---|---|---|---|---|
| Midstage Grid Stage Right - FOH Left Speaker | **ST-N6-023** | **ST-R-1302** | Audio Return | 1 | XLR Male |
| | | | | | |
| Midstage Grid Centre - FOH Centre Balcony Fill Speaker | **ST-N6-024** | **ST-R-1303** | Audio Return | 1 | XLR Male |
| | | | | | |
| Midstage Grid Stage Left - FOH Right Speaker | **ST-N6-025** | **ST-R-1304** | Audio Return | 1 | XLR Male |
| | | | | | |
| Midstage Grid Stage Left - Stage Left Wagon Fill Speaker | **ST-N6-026** | **ST-R-1305** | Audio Return | 1 | XLR Male |
| | | | | | |
| Downstage Grid Stage Right - FOH Left Balcony Fill Speaker | **ST-S6-033** | **ST-R-1306** | Audio Return | 1 | XLR Male |
| | | | | | |
| Downstage Grid Centre - Sub Speaker | **ST-S6-034** | **ST-R-1307** | Audio Return | 1 | XLR Male |
| | | | | | |
| Downstage Grid Stage Left – FOH Right Balcony Fill Speaker | **ST-S6-035** | **ST-R-1308** | Audio Return | 1 | XLR Male |
| | | | | | |
| Upstage Stage Left Catwalk | **ST-E6-027** | **ST-A-1095 to ST-A-1096** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3041 to ST-V-3042** | Video | 2 | BNC Coaxial |
| | | **ST-S-4033 to ST-S-4034** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Up/Midstage Stage Left Catwalk | **ST-E6-028** | **ST-A-1097 to ST-A-1098** | Audio | 2 | XLR (Male & Female) |
| | | **ST-V-3043 to ST-V-3044** | Video | 2 | BNC Coaxial |
| | | **ST-S-4035 to ST-S-4036** | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Midstage Stage Left Catwalk | **ST-E6-029** | **ST-A-1099 to ST-A-1102** | Audio | 4 | XLR (Male & Female) |
| | | **ST-V-3045 to ST-V-3048** | Video | 4 | BNC Coaxial |
| | | **ST-N-6013 to ST-N-6014** | Network | 2 | UTP Cat 6 - EtherCON |
| | | **ST-S-4037 to ST-S-4040** | Network | 4 | STP Cat 6 - EtherCON |

| | | | | | |
|---|---|---|---|---|---|
| | | ST-C-7012 to ST-C-7013 | Comms | 2 | XLR Male |
| | | | | | |
| Mid/Downstage Stage Left Catwalk | ST-E6-030 | ST-A-1103 to ST-A-1104 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3049 to ST-V-3050 | Video | 2 | BNC Coaxial |
| | | ST-S-4041 to ST-S-4042 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Downstage Stage Left Catwalk | ST-E6-031 | ST-A-1105 to ST-A-1106 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3051 to ST-V-3052 | Video | 2 | BNC Coaxial |
| | | ST-S-4043 to ST-S-4044 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Downstage Grid - Show Relay Mic | ST-S6-032 | ST-M-1201 to ST-M-1202 | Audio | 2 | XLR (Female) |
| | | | | | |
| Upstage Stage Right Catwalk | ST-W6-036 | ST-A-1107 to ST-A-1108 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3053 to ST-V-3054 | Video | 2 | BNC Coaxial |
| | | ST-S-4045 to ST-S-4046 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Up/Midstage Stage Right Catwalk | ST-W6-037 | ST-A-1109 to ST-A-1110 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3055 to ST-V-3056 | Video | 2 | BNC Coaxial |
| | | ST-S-4047 to ST-S-4048 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Midstage Stage Right Catwalk | ST-W6-038 | ST-A-1111 to ST-A-1114 | Audio | 4 | XLR (Male & Female) |
| | | ST-V-3057 to ST-V-3060 | Video | 4 | BNC Coaxial |
| | | ST-N-6015 to ST-N-6016 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4049 to ST-S-4052 | Network | 4 | STP Cat 6 - EtherCON |
| | | ST-C-7014 to ST-C-7015 | Comms | 2 | XLR Male |
| | | | | | |
| Mid/Downstage Stage Right Catwalk | ST-W6-039 | ST-A-1115 to ST-A-1116 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3061 to ST-V-3062 | Video | 2 | BNC Coaxial |
| | | ST-S-4053 to ST-S-4054 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |
| Downstage Stage Right Catwalk | ST-W6-040 | ST-A-1117 to ST-A-1118 | Audio | 2 | XLR (Male & Female) |
| | | ST-V-3063 to ST-V-3064 | Video | 2 | BNC Coaxial |
| | | ST-S-4055 to ST-S-4056 | Network | 2 | STP Cat 6 - EtherCON |
| | | | | | |

| Control Room | | | | | |
|---|---|---|---|---|---|
| Audience Left | ST-C6-043 | ST-A-1119 to ST-A-1122 | Audio | 4 | XLR (Male & Female) |
| | | ST-V-3065 to ST-V-3068 | Video | 4 | BNC Coaxial |
| | | ST-N-6017 to ST-N-6018 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4057 to ST-S-4060 | Network | 4 | STP Cat 6 - EtherCON |
| | | ST-SF-5011 to ST-SF-5012 | Network | 2 | Single Fibre – OpticalCON |
| | | ST-C-7016 to ST-C-7017 | Comms | 2 | XLR Male |
| | | | | | |
| Audience Right | ST-C6-044 | ST-A-1123 to ST-A-1126 | Audio | 4 | XLR (Male & Female) |
| | | ST-V-3069 to ST-V-3070 | Video | 4 | BNC Coaxial |
| | | ST-N-6019 to ST-N-6020 | Network | 2 | UTP Cat 6 - EtherCON |
| | | ST-S-4061 to ST-S-4064 | Network | 4 | STP Cat 6 - EtherCON |
| | | ST-SF-5013 to ST-SF-5014 | Network | 2 | Single Fibre – OpticalCON |
| | | ST-C-7018 to ST-C-7019 | Comms | 2 | XLR Male |
| | | | | | |

## BACKSTAGE

### Communications:

**Stage Managers Desk**

Podion height adjustable SMD equipped with Creston Audio/Video control panel, monitor feeds from program cameras, digital clock and Riedel Smart Panel comms unit allowing backstage and production calls.

**Talkback**

Master Unit **2 x Riedel SmartPanel RSP-2318 using Riedel Artist 32**

Total sub stations **8 x Riedel Performer C3 wired belt packs**

Total headsets **14 x Riedel Pro-D1 headsets**

Radio Units In-house **4 x Riedel Bolero wireless belt packs (880 – 1900 MHz)**

Battery Charger **1 x Riedel Bolero 5 bay battery charger**

Talkback patching located at: **Throughout Venue**

**Paging / Show relay**
**Yes**

**Stage Monitor**

2 x HD PTZ Camera to green room, dressing rooms, bio box, etc

**Q Light System**

In house Q light system available **XLR points installed**

Number of units **No**

## Dressing Rooms:

All located on Level 3

| Dressing Room | Capacity* | Toilets | Shower | Details |
|---|---|---|---|---|
| Dressing Room #ST1 | 6 | 1 x All Gender | Yes | DR#ST1 dedicated to Studio Theatre. Bathroom is adjacent, but external to DR. |
| Dressing Room #ST2 | 7 | 1 x All Gender | Yes | DR#ST2 primarily for Studio Theatre. Ensuite bathroom.** |
| Dressing Room #ST3 | 9 | 1 x All Gender | Yes | DR#ST3 primarily for Studio Theatre. Ensuite bathroom.** |
| # Additional Dressing room on level 1 can be hired at subject to availability and additional cleaning costs |||||
| *This capacity allows separate chair/mirror etc for each person. Greater number may be accommodated TBC. |||||
| ** DR #ST2 & #ST3 have a lockable connecting door and hence can be used as one large or two smaller dressing rooms.  These rooms are occasionally used as overflow dressing rooms for the main stage theatre. |||||

## Laundry / Wardrobe:

Located on Level 2 at rear of main stage loading dock. **NOTE: This is a shared facility.**

Washing Machines        **(2) BOSCH WAY32891AU Front Load 6.5kg washing machines**

Dryers        **(2) BOSCH WTY877WOAU front Load 9.0kg tumble dryers**

Drying rooms        **N/A**

Iron / ironing board        **Shared with Theatre Royal 1 x Iron, 2 x Ironing Boards**

Clothes racks        **1 portable rack per dressing room + several in Laundry**

## Production Facilities:

**Production Desk**
Production desk set up centre of the stalls or front of Balcony.  Table accommodates 2 – 3 people with dimmable or switchable lighting, DMX for the lighting desk, 240V power and talkback.

**Production Office**
Yes – 'Hot Desk' available in Studio Theatre dock area

**Phone**
NO

**Internet access – WiFi**
YES

## Greenroom:

Located on Level 1 close to main Stage Door. **NOTE: This is a shared facility.**

Tea / Coffee facilities        **YES**

Fridge / freezer        **YES**

Microwave        **YES**

Running water        **YES**

Stage Door:
**Access**
Primary Stage Door for the Theatre Royal/Hedberg complex is located in Sun Street (off Collins Street) adjacent to the loading dock facility. Secondary Stage Door is located on Sackville St.

Access during bump-in / out will be controlled by venue staff. During performance access is controlled by venue staff in consultation with hirer.

## ADDITIONAL FACILITIES & INFORMATION

Orchestral:
Piano (Yamaha Upright)     $70 per performance, plus tuning if required (approx $275)
Piano (Yamaha C7: 7 ½ ft) $120 per performance, plus tuning if required (approx $275)

Music Stands

14 music stand and (1) conductors stand with sconces plus separate dimmable sconce circuit controlled in Prompt Corner.

*NOTE: Shared instruments with Main Stage – Check availability.*

Rehearsal Space:
N/A

Work Health & Safety

Workplace Health and Safety is paramount at the Theatre Royal.

Any WHS issues or incidents must be reported to venue management. These include, but are not limited to, any injuries, dangers in the workplace or unsafe working practices.

Please check with the Technical Manager regarding risk assessments that may be required or any works which will require statutory licensing such as EWP operation, rigging, electrical work etc.

All set and staging elements must be deemed safe by the Technical Manager; any electrical equipment brought into the theatre must have a current test tag and pass a visual inspection.

Staffing and Scheduling :

A minimum of 2 Theatre Royal technician must be engaged prior to and during a performance. Additional Theatre Royal technical staff may be required dependant on the technical requirements of the event.

Theatre Royal staff are employed by the hour with a minimum (3) hour call Monday to Saturday, minimum (4) hour call on Sundays and Public Holidays. Staff working between midnight and 7am, or on Sundays and public holidays, are subject to overtime rates.

Staff must receive a (10) hour break between finishing work on one day and commencing work on the next day or overtime rates apply.

## VENUE:

Web Site:                           https://www.theatreroyal.com.au/

Venue Contacts:

Venue Address          **Theatre Royal – Studio Theatre, 29 Campbell St, Hobart, Tasmania, 7000**

Venue Postal Address   **Theatre Royal, PO Box 145, GPO Hobart, TAS, 7001**

Box Office

Address          **Theatre Royal Box Office, 29 Campbell Street, Hobart**

Opening Hours     9am - 5pm Monday to Friday

Phone Number     +61 (03) 6146 3300

E-mail Address   boxoffice@theatreroyal.com.au

Staff Contacts:

**Operations Manager**                **Nick Toll**

Email Address          nick@theatreroyal.com.au

Phone Number          03 6146 3309

**Programming Manager**               **Don Hopkins**

Email Address          don@theatreroyal.com.au

Phone Number          03 6146 3304

**Technical Coordinator**             **Aron Webb**

Email Address          aron@theatreroyal.com.au

Phone Number          03 6146 3312

**Senior Technician**                 **Chris Mcbride**

Email Address          production@theatreroyal.com.au

Phone Number          03 6146 3311

**Administration**                    **Sami Sharp**

Phone Number          03 6146 3313

Email Address          sami@theatreroyal.com.au

**Box Office**

Phone Number          03 6146 3300

Email Address          boxoffice@theatreroyal.com.au

Venue Plans:

**Venue Plans Available**
PDF, DWG and VWX available on Theatre Royal website, www.theatreroyal.com.au,
see About_ Hiring the Theatre Royal.
Hard copy at 1:100 can by mailed upon request.