

# Theatre Royal

# **Technical Specifications**

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#### PRESHOW ANNOUNCEMENTS

The Theatre Royal Management Board has a pre-recorded Acknowledgement of Country and FOH Housekeeping announcement that is played prior to all performances in our venues. The announcements are played when the FOH Supervisor provides the stage manager / TR mechanist clearance and the house lights have faded to half. If you believe playing the FOH Housekeeping announcement at this time will affect the artistic integrity of your show, please discuss the timing with the Operations team prior to your bump in.

# **STAGE**

#### **Brief Stage Description:**

Proscenium Arch with flying facilities. Floor surface is Masonite skin hardboard on trudek. Screwing into surface permitted but larger holes to be authorised by Technical Manager. Stage crossover behind US fly line.

Stage distributed load limit =750 kg/m2 (7.5Kpa)

Stage point load limit =320 kg (3.2KN)

Stage rake NO

# **Stage Dimensions:**

Proscenium.

Width **7860mm** 

Height 6770mm (at centre point)

#### Setting Line

-400mm upstage from the rear of proscenium (allows for fire curtain and house curtain)

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

SL to DS edge of apron 1300mm

SL to DS edge of Orchestra Lift/Pit N/A

SL to first fly line 180mm

SL to last upstage fly line 9030mm

SL to rear wall PS=12990mm, OP= 14080mm

CL to OP wall (or obstruction) 7085mm
CL to PS wall (or obstruction) 6310mm
Stage to underside of grid 15900mm

#### Overhead obstructions

- -I beam extends 850mm from OP wall at height of between 5600 5900mm
  - Under the I beam hangs a duct with the lowest point being at 5000mm
  - Work light bar running US to DS extending 120mm at a height of 2800-2850mm

#### Auditorium:

3 levels, Stalls, Dress Circle, Gallery

Seating capacity with

Front row stalls seating installed 700

Seating capacity without

Front row seating installed 683

#### **Hearing Loop:**

Yes – Mipro FM transmitter to belt backs with either headphones or neck loops.

## Orchestra Pit:

#### **Orchestra Pit**

Orchestra pit fixed with no net, it extends under the stage and only 1300mm protrudes in front of the stage apron. There are two large circular support columns within the orchestra pit.

The Orchestra Pit can be extended through a removable front section. This requires four crew, 1.5 hours and results in the removal of the front row of seating.

Stage level at 1160mm above auditorium

Orchestra pit level at **1340mm** below auditorium.

Dimensions of the orchestra pit 8300mm wide at DS edge

5870mm wide at US edge

5550mm deep when fully extended

4240mm when not extended

Orchestra pit maximum capacity

When not extended approx 17 pieces

When extended approx 27 pieces

## Flying Facilities:

#### Fly System

Jands single purchase double guided 4 line counterweight system

#### Fly System Details

Operating Position Prompt side from gallery 1 at 8000mm(except house

curtain is from downstage prompt at floor level)

Total number of Lines 44

Panorama Lines 1 Prompt (line 46), 1 OP (line 45)

Batten Drift Stage +400mm to +15 500mm

Batten Type 48mm OD steel pipe

Batten Length 10 500mm

Batten Extensions Possibility to extend 4 lines by 300mm each end.

Batten Pick-ups 4 – evenly spaced

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Batten Point Load	100Kg		
Batten W.L.L.	280Kg		
LX Batten W.L.L.	240Kg		
Cradle Capacity	280Kg		
LX bars can be swung	YES		
Fly bars can be swung	YES		

SEE HANGING PLOT FOR LINE ALLOCATIONS AND FURTHER INFO

# Hanging Plot:

SL: Setting Line as indicated previously

<u>Line Type:</u>  $SP = Single \ purchase, \ DP = Double \ purchase, \ MW = Motor Winch, \ HW = Hand Winch, \ HL = Handline W.L.L.: Maximum distributed load including bar weight$ 

Line #	Distanc e from Apron (mm)	Distance from SL (mm)	Venue Allocation	Intended Use (hiring company use)	Intended Weight	W.L.L	Line Type
НС	1190	-110	House Curtain	Not Available for use		280Kg	SP
1	1480	180				280Kg	SP
2	1680	380	LX 1			280Kg	SP
3	1880	580				280Kg	SP
4	2080	780				280Kg	SP
5	2280	980				280Kg	SP
6	2480	1180				280Kg	SP
7	2680	1380	Border			280Kg	SP
8	2880	1580	Legs (with return)			280Kg	SP
9	3080	1780				280Kg	SP
10	3280	1980				280Kg	SP
11	3480	2180				280Kg	SP
12	3680	2380	Border			280Kg	SP
13	3880	2580				280Kg	SP
14	4080	2780				280Kg	SP
15	4280	2980	LX 2			280Kg	SP
16	4480	3180				280Kg	SP
17	4680	3380	Legs (with return)			280Kg	SP
18	4880	3580				280Kg	SP
19	5080	3780				280Kg	SP
20	5530	4230	Border			280Kg	SP
21	5730	4430				280Kg	SP
22	5930	4630	Tabs			280Kg	SP
23	6130	4830				280Kg	SP
24	6330	5030	LX 3			280Kg	SP
25	6530	5230				280Kg	SP
26	6730	5430	Legs (with return)			280Kg	SP
27	6930	5630				280Kg	SP
28	7130	5830				280Kg	SP
29	7330	6030				280Kg	SP
30	7530	6230	Border			280Kg	SP
31	7730	6430				280Kg	SP
32	7930	6630				280Kg	SP
33	8130	6830	LX 4			280Kg	SP
34	8330	7030				280Kg	SP
35	8530	7230	Border			280Kg	SP
36	8730	7430	Legs (with return)			280Kg	SP
37	8930	7630	LX 5 (Cyc light bar)			280Kg	SP
38	9130	7830				280Kg	SP
39	9330	8030				280Kg	SP
40	9530	8230				280Kg	SP
41	9730	8430	Legs (no return)			280Kg	SP
42	9930	8630				280Kg	SP

43	10130	8830	Сус		280Kg	SP
44	10330	9030	Tabs		280Kg	SP
45		Panorama			280Kg	SP
46		Panorama			280Ka	SP

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## **Drapery**:

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Velvet 50% fullness	Burgundy	8500mm	7500mm	1
Borders	Velvet 50% fullness	Black	1200mm	3000mm	5
Legs	Velvet 50% fullness	Black	3500mm	7500mm	5
Tabs / Smother	Velvet 50% fullness	Black	6000mm	7600mm	2 (sets)
Cyclorama	Filled Cotton	White	11000mm	7500mm	1
Scrim	none				

## **Access Equipment:**

#### **Elevated Work Platform**

Tallescope – extendable between 3900 – 5900mm

MUST be operated by Theatre Royal staff only, requires minimum 2 Staff at all times

Genie AWP-30S push around vertical lift \*Subject to availability Maximum reach is 11.0 metres

#### **EWP Restrictions**

N/A

#### Ladders

- (1) 3m Aluminium A Frame
- (1) 2.4m Aluminium A Frame
- (1) 1.8m aluminium A Frame
- (1) aluminium extension ladder extendable between 5000 8500mm

#### Safety Curtain:

Safety Curtain installed Yes = 500Kg steel automated curtain running against the upstage edge of the proscenium

Safety Curtain must be unobstructed at all times Yes

Thickness of Fire Curtain 150mm

Distance from setting line -400mm – setting line is up stage of Fire Curtain Note: Measurement is to the downstage edge of the Fire Curtain.

#### **Additional Requirements**

Fire Curtain must remain in the down position whilst venue not in use Venue Fly System to be operated by Venue Staff only.

#### **Loading Dock:**

#### Access 1 - Hedberg Loading Dock

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 3260mm Wide

The Hedberg Loading Dock is a shared facility for the precinct and has been designed for companies to load/unload promptly and vacate the area. The Theatre Royal does not offer long term parking within this controlled area to hirers. Access to this space must be prearranged including duration with the Theatre Royal Operations department to make sure that all occupants of the precinct are able to use this facility.

#### Access 2 - Theatre Royal Stage

Truck access is Sackville St, off the Brooker Highway. Trucks to enter forwards and stop past the winched platform. Truck exit forwards onto Campbell St. Loading dock doors open directly on to OP stage.

Loading Dock Height variable height hydraulic ramp to 1500mm loading dock

Door Dimensions 3500mm High

3000mm Wide

#### **Restrictions / Obstructions**

Truck parks on a slight slope towards access platform.

Nearby residents – noise is an issue during late night bump-out.

#### Additional Rigging Notes

1.5 tonne point load I beam spreader bar in grid - movable

#### Staging Notes:

All flown items must be rigged with rated equipment and are subject to approval by a venue representative.

Limited rigging gear available in house, including straps, shackles, FSWR, slings

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## **LIGHTING**

**Positions:** 

Stage LX Bars 5 x Lx Bars, 22 outlet each, 10500mm long, bars can be

swung up to 3000mm from standard position.

See hanging plot for standard LX bar locations

Stage Perch Bars PS and OP, just US of proscenium, 6 outlets each,

500mm from stage to top of proscenium (approx

+6700mm)

**Stage Floor Circuits** 3 x dip trap on each side of the stage, DS, mid stage

and US, 3 outlets per trap

**Gallery Rear** 

Setting Line to lighting bar 19 900mm at 35 degrees

Usable bar width **2000mm**Notes 4 outlets

**Gallery Centre** 

Setting Line to lighting bar 14 000mm at 45 degrees

Usable bar width 7 000mm
Notes 16 outlets

**Gallery Roof sides** 

Setting Line to lighting bar 13 900mm at 45 degrees

Usable bar width 3500mm

Notes OP and PS one bar per side, 9 outlets per bar

**Dress Circle** 

Setting Line to lighting bar 13 900mm at 23 degrees

Usable bar width 3200mm

Notes OP and PS, one bar per side, 9 outlets each

**Royal Boxes** 

Setting Line to lighting bar 3500mm at DS, 2000mm at US

Usable bar width 1500mm

Notes 1 box boom per side, horizontal bar running US/DS, 6

outlets per side

Control:

Lighting desk ETC ION XE20

Control channels

Signal output DMX 512

Signal distribution (2) Universes available at various points throughout stage and

auditorium

Remote riggers available onstage YES

# **Dimmer Racks:**

Total Dimmers 192

Dimmer Locations 24 in ceiling space for FOH position

102 on fly floor level for stage bars

66 at mezzanine patch bay, USPS of stage

Venue has a patch system such that access from almost any outlet to any dimmer is

possible

144 x 2.4Kw Dimmer Racks 36 x 2.4Kw Dimmer Racks LSC ipro (digital) Jands FPX (digital)

Total dimmers @ 2.4kw per dimmer 180

5Kw Dimmer Racks LSC ipro (digital)

Total dimmers @ 5kw per dimmer 12

## **House Lights:**

Independent control YES

Control positions Lighting control room, Prompt Corner, Box Office

Fade time adjustable Yes – time and intensity adjustable, 3 pre-set intensity

positions - full, preset and out.

# **Stage Luminare:**

#### **Profiles**

Make	Model	Angle	Detail / Accessories	Watt	Total
ССТ	Silhouette 30	Zoom (19/41)	B size gobos, (6) holders to suit, (4) Iris	1000	25
Selecon	Pacific	12/28	M size gobos, (12) holders to suit, (4) iris	800	23
ССТ	Minuette	Zoom (18/40)	Nil	650	4
Strand	SL	15/32	B size gobo, (9) holders to suit, (4) iris	600	17
Strand	SL	23/50	B size gobo, (9) holders to suit, (4) iris	600	8

#### Fresnel's

Make	Model	Detail / Accessories	Watt	Total
Selecon	Arena	(8) Barndoors	2000	8
Selecon	High Performance	(20) Barndoors	1000	20
Coemar	Passo	(25) Barndoors	1000	24
Coemar	Solar	(5) Barndoors	650	2

# PC

Make	Model	Detail / Accessories	Watt	Total
Coemar	Solar	(5) barndoors	650	4

#### Wash

Make	Model	Detail / Accessories		Total
	CODA 4	(4) cells per unit *Kept in storage, but available on request*	500	8
	IRIS 4	(4) cells per unit	1000	4

# **Followspots:**

Make	Model	Angle	Detail / Accessories	Watt	Total
Ushio	Sai-500 LED	1.9m Ø @ 20m	'A' size gobo holder, (6) way manual colour changer with boomerang system fitted with removable filter frames	2500	2
Strand	Solo	9 -15	(5) colour changer magazine	2000	1

# Additional Lighting Available to hire – Subject to Availability:

Item	Make	Model	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	6
ETC	Source Four	25-50 deg		750w	10
ETC	Source Four 150mm -175mm Fresnel		24 Barndoors	750w	12
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	18
	Maximum DMX ch				

# Power:

# 3 Phase Outlets

- (8) 40amp at mezzanine patch bay (6 for dimmer use only)
- (4) 32amp at mezzanine patch bay
- (10) 40amp on Fly Floor (5 for dimmer use only)
- (2) 40 amp DSOP Stage level
- (3) 40 amp Gallery ceiling (for dimmer use only)

# Effects:

None

# Cabling:

# 240v Extension Cable

The Theatre Royal has a good stock of extension cable in 1mt, 2mt, 5mt, 10mt and 20mt lengths all with piggyback plugs.

#### Looms

- (7) 20m 4 way Weiland
- (1) 17m 4 way Weiland

# 3 phase Extensions

None

#### **AUDIO**

#### **Control Positions:**

#### **Control Room**

None

#### **Auditorium**

Rear of stalls OP side – 6 removable seats in R row (back row) and another 6 in P row.

Total seat allocation Min 3 – Max 12

#### Other

DSOP on stage from "sound cupboard OP Royal box (by arrangement)

#### Control & Amplification:

#### **Primary Mixer**

**Soundcraft GB8,** 24 mono inputs, 4 stereo line inputs (can be used as 4 mic inputs), 8 groups, 8 aux sends, 11 x 4 matrix mix, individual phantom power on all mic inputs, 4 mute masters

## **Secondary Mixer**

**Soundcraft GB2R,** 12 mono inputs, 2 stereo line level inputs, 2 groups, 6 auxiliary sends. Switchable phantom power on all mic inputs.

#### **Amplifiers**

## FOH system

CAMCO VORTEX 3 (4 channel amp 750w x 4 @ 4 Ohms)

CAMCO TECTON 38.4 (2 channel amp 1900W x 2 @ 4 Ohms)

CAMCO TECTON 24.4 (2 Channel amp 1200w x 2 @ 4 Ohms)

NEXO NX 242 (Digital loudspeaker controller to suit GEO-S)

NEXO PS.10UTD (Loudspeaker controller to suit PS10)

# ON STAGE System

- (2) EV P1200
- (1) Yamaha PC2002M

#### EQ

FOH system EQ - 3 x 31 band digital for L, C, R and 1 x 10 band digital for subs.

- (1) Dual 31 band Klark Teknik SQ1 (analogue)
- (1) Dual 31 band Klark Teknik DN3600 (digital)

#### FX

T.C Electronic M One dual effects processor

#### Compression / Limiter / Gates

None

#### Speakers:

**FOH Speaker:** Left, Centre, Right, Sub System – (programmable to LCR or LR only)

# Controlled by Yamaha DME24N

- (6) NEXO PS10 (L and R stalls, dress circle and gallery)
- (5) NEXO GEO S803 Centre Array
- (2) QUEST HPI-218S subs (in orchestra pit)
- (4) Front fill spkrs located along stage lip (Electrovoice Evid 3.2)
- (5) delay ring spkrs located under Stalls balcony (RCF Monitor 55)
- (5) delay ring spkrs located under D/circle balcony (RCF Monitor 55)

#### **Foldback**

(6) EV SX200

# Playback:

Item	Make	Model	Detail	Total
CD/MP3 Player	Denon	DN-D4500	Dual CD player	1

# Microphones included in venue:

Make	Model	Detail / Accessories	Use	Total
Sennheiser	E945	Hand held wireless	Vocal	2
DPA	406	Omni lapel with Sennheiser SK500 G3 bodypack transmitter	Vocal	2
	DI			2

# Microphones – available to hire

Make	Model	Detail / Accessories	Use	Total
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 St	udio Theatre, Subject to ava	ilability		

# Accessories:

Item	Model	Detail / Accessories	Total
Microphone Stand	Tall K & M	Boom	8
Microphone Stand	Short K & M	Boom	8
Microphone Stand	Tall K & M (threaded)	Round Base	2

# Line Patching:

Location	Quantity	Numbering	Detail
Orchestra Pit	10		XLR Female
Prompt Corner	8		XLR Female
DS Centre dip trap	5		XLR Female
OP Corner	2		XLR Female
PS & OP centre dip trap	2 (each)		XLR Female
PS & OP US dip trap	2 (each)		XLR Female
US Centre dip trap	6		XLR Female
Fly Floor	1		XLR Female

# Speaker Patching:

Location	Quantity	Numbering	Detail
Orchestra Pit	2		Speakon or XLR
Prompt Corner	1		Speakon or XLR
DS Centre dip trap	2		Speakon or XLR
OP Corner	1		Speakon or XLR
PS & OP DS dip trap	1 (each)		Speakon or XLR
US Centre dip trap	6		Speakon or XLR

# Cabling:

#### **Audio Cable**

Adequate leads for normal purposes

#### Multicore

Permanent mulitcore to FOH operating position, 32 lines, 24 sends, 8 returns

- (1) x 20m multicore, 20 sends, 4 returns
- (1) x 10m drop box 6 x XLR, 2 X TRS

# **Audio Notes:**

FOH speaker positions are fixed.

FOH operating position requires the removal of seats. Exact number determined by size of mixing console and associated equipment

# **BACKSTAGE**

#### Communications:

#### **Stage Managers Desk**

Stage Managers desk in located in prompt corner, fixed to wall. The area has a clock, light and phone.

**Talkback** 

SM Panel Riedel RSP213

Total sub stations 6 totals - (6) C33 Digital Partyline with 3 programable

Channels

Total headsets 10 Total – (10) Riedel Medium Headsets

Radio Units In-house 4 – Riedel Bolero

Talkback patching located at: Stage Managers Desk (Master Unit)

**Lighting Control / Follow Spot Room** 

**FOH Sound position** 

Fly Floor

Additional Patches can be run from either Prompt

**Corner or Opposite Prompt Corner** 

#### Paging / Show relay

Paging to the dressing rooms is available and programmable to the SM Panel or Bolero Headsets

# **Stage Monitor**

Monitors in Prompt Corner, U/S P.S. all Dressing Rooms and Green Room – camera located underneath the gallery balcony.

## **Q Light System**

In house Q light system available NO
Number of units N/A

# **Dressing Rooms:**

Dressing Room	Capacity	Toilets	Shower	Details
TR#1	5	1	YES	Level 2
TR#2	5	1	YES	Level 2
TR#3	5	1	YES	Level 2
TR#4	5	1	YES	Level 2
TR#5	6	1	YES	Level 1
TR#6	4	1	YES	Level 1
TR#7	10	0	NO	Level 1There are toilets and showers located on this level but not within this dressing room.

#### Laundry / Wardrobe:

Located on Level 2 in the 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 Dress Circle. Table accommodates 2 – 3 people with dimmable or switchable lighting, DMX for the lighting desk, 240V power and talkback.

#### **Production Office**

There is no dedicated Production Office but production staff can use a dressing room (if available).

#### **Phone**

No

#### Internet access

Fridge / freezer

Yes - Wi-Fi access available.

## **Greenroom:**

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

YES

Tea / Coffee facilities YES

Microwave YES

Running water YES

## Stage Door:

# **Access**

Theatre Royal 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 touring management. Pin code for access are available for touring companies which is scheduled as per production schedule.

#### 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 Studio Theatre - Check availability.

#### .Rehearsal Space:

Subject to availability

# Staffing and Scheduling:

A minimum of 3 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: <a href="https://www.theatreroyal.com.au/">https://www.theatreroyal.com.au/</a>

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:** 

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Phone Number 03 6146 3317

**Box Office** 

Phone Number 03 6146 3300

Email Address boxoffice@theatreroyal.com.au

Venue Plans:

Venue Plan Available

YES, PDF available on Theatre Royal website, <u>www.theatreoyal.com.au</u>, CAD2000 drawing can be emailed upon request, hard copy at 1:25 can by mailed upon request.

**Venue Section Available** 

YES, CAD2000 drawing can be emailed upon request