

Theatre Royal

Technical Specifications

Updated
Nov 2025

**Operations Manager**

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Technical Coordinator

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Venue Admin

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Venue Address

29 Cambell Street (Cnr of Collins and Campbell street)

Hobart, Tasmania

Australia 7000

Stage

Brief Stage Description

Proscenium Arch with flying facilities. Floor surface is Masonite skin hardboard on hardwood floorboards. 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 m ² (7.5Kpa)
Stage point load limit	320 kg (3.2KN)
Stage rake	N/A

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 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

A heating duct is hung below the I-beam, with the lowest point being at 5000mm

Dance Floor

Please note: Harelquin dance floor is shared between venues and is only available by prior negotiation and subject to availability. Hire fees apply.

Please consult with Theatre Royal Venue Hire or Operations staff for a quote.

5) x 2m x 10m rolls of Harelquin Reversible vinyl dance floor (black/grey)

Auditorium

3 levels, Stalls, Dress Circle and Gallery

Seating capacity

- **686** with front row stalls seating installed
- **669** without front row seating installed

Hearing Loop

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

Orchestra pit

The orchestra pit is fixed (no pit net) and is covered partially beneath the stage. It extends 1300 mm in front of the stage apron.

There are two large circular support columns within the pit. In the standard configuration, staging panels are installed in the forward half of the pit at approximately auditorium floor height.

Using the 'half pit' configuration requires:

- Removal of the front staging panels
- Removal of the audio subwoofers
- Approximately 3 crew for 45 minutes
- The full pit extension is possible by way of a removable front section. This option requires:
 - 4 crew for approximately 2 hours
 - Removal of the front row of audience seating

Orchestra pit level at

- 2500mm below Stage level
- 1340mm below Auditorium level

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 approximately 17 pieces
- When extended approx 27 pieces

Flying facilities

Fly System to be operated by venue staff only

- Jands single purchase double guided 4 line counterweight system

Fly System details

- to be operated by venue staff only

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 Centres	200mm, except 19-20 (450mm)
Batten Type	48mm OD steel pipe
Batten Length	10 500mm

Batten Extensions	Availability to extend 4 lines by 300mm each end
Batten Pick-ups	4 – 3200mm centres
Batten Point Load	100Kg
Batten W.L.L.	280Kg
LX Batten W.L.L.	240Kg
Cradle Capacity	280Kg
LX bars can be swung	YES

See Hanging Plot For Line Allocations And Further Info

Hanging plot

- Can be provided upon request.

Drapery

Type	Material	Colour	Width	Height	Quantity
House Curtain	Velvet 100% fullness	Wine	5400mm	7600mm	2 (1 set)
Borders	Wool 50% fullness	Black	11000mm	3500mm	6
Legs	Wool 50% fullness	Black	4000mm	7500mm	10
Tabs / Smother	Wool 50% fullness	Black	6000mm	7600mm	4 (2 sets)
Cyclorama	Filled Cotton	White	10500mm	7500mm	1
Scrim	none				

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

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 -Shared between venues - subject to availability

Maximum platform height is 9.0 metres. MUST be supervised by Theatre Royal staff at all times.

Safety curtain

Additional requirements

- Fire Curtain must remain in the down position when venue is not in use.

Safety Curtain installed	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	250mm – setting line is up stage of Fire Curtain

Lighting

Positions	
Stage LX Bars	5 x Lx Bars, 22 outlet each, 10500mm long. <i>See hanging plot for standard LX bar locations</i>
Stage Perch Bars	PS and OP, immediately US of proscenium, 6 outlets each, +500mm from stage to +6700mm from stage
Stage Floor Circuits	3 x dip trap on each side of the stage, DS, mid stage and US, 3 outlets per trap
Front of House positions	<ul style="list-style-type: none">• Gallery Rear• Gallery Centre• Gallery P and OP• Dress Circle• Royal Boxes

*Please visit Theatre Royal Virtual tour for best representation of Front of House locations.
Angles and Distances/CAD available on request*

Control

Lighting desk	ETC ION XE
Control channels	Total 6144 DMX channels
Signal output	sACN 2 x DMX also available to most LX positions
Signal distribution	3 x 2 Port Chamsys GeNetix sACN Nodes available to be located anywhere. Patch points with POE available throughout venue
	1 x 10 Port Chamsys GeNetix sACN node on Fly Floor for flown fixtures
Remote riggers	Available onstage via iPad OSC

Dimmer racks

Total dimmers	156
Dimmer locations	24 in ceiling space for FOH position (24 x 2.4kW)
	102 at fly floor level for stage bars (96 x 2.4kW, 6 x 5kW)
	30 mezzanine patch bay, USPS of stage (24 x 2.4kW, 6 x 5kW)
Dimmer Racks	LSC ipro
Total dimmers at 2.4kW per dimmer	144
5kW Dimmer Racks	LSC ipro
Total dimmers at 5kW per dimmer	12

Power distribution

Total Distribution Outlets	54
Distribution Locations	12x 10a in ceiling space for FOH. 36x 10a at mezzanine patch bay, USPS of stage

Power

3 Phase Outlets	(8) 40amp at mezzanine patch bay (4) 32amp at mezzanine patch bay (10) 40amp on Fly Floor (2) 40 amp DSOP Stage level (3) 40 amp Gallery ceiling
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House lights

Control	Wall panels or DMX
	6 Channels (Stalls, Dress Circle, Royal Boxes, Chandelier, Proscenium Arch, Gallery)
Control positions	<ul style="list-style-type: none">• Lighting control room (gallery level),• Prompt Corner• Operators desk (Stalls Level)• Box Office

Stage Lighting Equipment

Type	Make/Model	Detail / Accessories	Watt	Total
Moving Head Spot	Ayrton Diablo S	Fully featured LED moving head profile. White LED source with CMY colour mixing and framing shutter system.	300W	20
Moving Head Wash	SilverStar Neptune NW8	High output moving head wash. 3.5-60° zoom. RGBL 4 colour LED, plus ring and mask effects.	800W	14
LED Profile	Prolights EclProfile CT+	25-50° Zoom Lens, 6 colour LED. Irises and gobo holders available.	270W	12
LED Profile	Prolights EclProfile CT+	15-30° Zoom Lens, 6 colour LED Irises and gobo holders available.	270W	6
LED Profile	Prolights EclProfile CT+	19° Fixed Lens, 6 colour LED. Irises and gobo holders available.	270w	6
Profile	ETC Source 4	15-30° Zoom Lens, Tungsten Halogen. Irises and gobo holders available.	750W	14
Profile	Strand SL	15-32° Zoom Lens, Tungsten Halogen. Irises and gobo holders available.	600W	15
Profile	Strand SL	25-50° Zoom Lens, Tungsten Halogen. Irises and gobo holders available.	600w	6
Profile	Selecon Pacific	12-28° Zoom Lens, Tungsten Halogen. Irises and gobo holders available.	800w	12
LED Fresnel	Prolights EclFresnel CT+ M	LED 6 colour, with barndoors and gel frames	300W	20
Fresnel	Coemar Passo	Tungsten Halogen, with barn doors and gel frames	1000w	20
Fresnel	Selecon High Performance	Tungsten Halogen, with barn doors and gel frames	1000W	20

Type	Make/Model	Detail / Accessories	Watt	Total
Fresnel	Selecon Arena	Tungsten Halogen, with barn doors and gel frames	2000W	8
LED CYC Flood	SilverStar AuroCYC HEX IP	LED 6 colour 70° compact cyc flood	180w	12
Hazer	Unique 2.1	Water based hazer		1
Follow Spot	Ushio SAI-500 LED	LED follow spot, 5-15° zoom, 6-way colour magazine	440W	2

Additional Lighting – Subject to Availability (Shared Between Venues)

Type	Make/Model	Detail / Accessories	Watt	Total
Fresnel	ETC Source 4	Tungsten Halogen, with barn doors and gel frames	750W	12
LED PAR	ETC ColorSource Deep Blue	4 colour LED (RGLB)	90w	24
PAR	ETC Source 4 PAR EA	Tungsten Halogen with barndoors and gel frames. VNSP, NSP, MFL, and WFL lenses available	750w	24
Hazer	Unique 2.1	Water based hazer		1

Cabling

Looms

- (2) 20m 4 way Weiland
- (2) 25m 4 way Weiland
- (2) 30m 4 way Weiland
- (1) 35m 4 way Weiland

Audio

Control position

Auditorium

Fixed position, rear of stalls from PS side aisle to slightly OP of centre. Total area is 3.4m wide, by 1.7m deep. L-shaped benchtop runs the full 3.4m of width, with a 1.7m return on the OP end. Bench top is 78cm deep.

Control

Primary Mixer	<ul style="list-style-type: none">• Yamaha DM7 Compact
Secondary Mixers (subject to availability)	<ul style="list-style-type: none">• Yamaha CL5• Soundcraft GB2R
Digital Stage Boxes	<ul style="list-style-type: none">• One (1) x One (1) Yamaha Rio 3224-D2 I/O Box - 32 in/16 out, 4 AES/EBU out (subject to availability - shared with Studio Theatre)
Data Distribution	<ul style="list-style-type: none">• 8 x CAT6A lines from FOH ops position to DSOP corner.

Speakers/Amplifiers

FOH Speaker	Left, Centre, Right, Sub System – (programmable to LCR, LR, LRCS) Processed by Nexo NX242 and Nexo PS.10 UTD. System Control by Yamaha DME24N. Powered by Camco Vortex and Tecton Amplifiers (6) NEXO PS10 - L and R stalls, dress circle and gallery (5) NEXO GEO S - Flown centre array (2) QUEST HPI-218S - Subs located in orchestra pit as standard (4) EV Evid 3.2 - Front fill located along stage lip (5) delay ring located in Stalls, under balcony (RCF Monitor 55) (5) delay speakers located in Dress Circle, under balcony (Australian Monitor Install 10)
Foldback	(6) EV SX200 speakers (2) EV P1200 Amplifiers (1) Yamaha PC2002M Amplifier

Microphones included in venue

Make	Model	Detail / Accessories	Total
Sennheiser	G3 ew500	Wireless microphone receiver	4
Sennheiser	e945	Wireless hand-held	2
Sennheiser	SK500	Wireless belt pack	2
DPA	4061	Omni lapel	2
DPA	4066	Omni headset	2
Radial	USB-Pro	USB Stereo DI	1
Shure	PGA58	Dynamic - switched	1

Microphones – shared between venues (subject to availability)

Make	Model	Detail / Accessories	Total
AKG	C414B – XL2	Large diaphragm condenser. Pop screen	2
AKG	C3000 B	Large diaphragm condenser.	2
AKG	C1000 S	Small diaphragm condenser.	4
Shure	SM58	Dynamic - vocal	4
Shure	SM58-S	Dynamic – vocal, switched	1
Shure	Beta 58	Dynamic - vocal	4
Shure	SM57	Dynamic – instrument/vocal	2
Sennheiser	e901	Condenser boundary plate microphone – kick drum and various	1
Shure	Beta 52A	Dynamic – kick drum and bass instruments	1
Sennheiser	e904	Dynamic - drums	4
Sennheiser	e906	Dynamic - instrument	1
Rode	M5	Small diaphragm condenser.	5
BSS	AR-133	Active DI	4
LA Audio	DI2	Active DI	3

Accessories - shared between venues (subject to availability)

Make	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	4

Backstage

Communications

Stage Manager's desk

Stage Managers desk is located in prompt corner.

The area has a clock, vision monitor, work light and access to comms base station.

Talkback

SM Panel	1	Riedel RSP213
Wired Packs	6	C33 Digital Partyline with 3 programable Channels
Wireless Packs	5	Riedel Bolero
Total headsets	10	Riedel Medium Headsets

Paging / Show relay

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

Stage monitors

- Monitors in Prompt Corner, U/S P.S. all Dressing Rooms and Green Room.
- Camera located in Dress Circle underneath the Gallery balcony.

Dressing rooms

Dressing Room	Capacity	Toilets	Shower	Details
TR#1	5	1	Yes	Level 2 - stage level
TR#2	5	1	Yes	Level 2 - stage level
TR#3	5	1	Yes	Level 2 - stage level
TR#4	5	1	Yes	Level 2 - stage level
TR#5	6	1	Yes	Level 1 - below stage
TR#6	4	1	Yes	Level 1 - below stage
TR#7	10	0	No	Level 1 - below stage (toilets and showers located near by)

Laundry / Wardrobe

Located on Level 2 in the loading dock.

Note: This is a shared facility.

Washing machines	2 x Bosch Way32891AU Front load 6.5kg washing machines
Dryers	2 x Bosch WTY877WOAU Front load 9kg tumble dryers
Drying rooms	N/A
Iron and ironing board	1 x Iron, 2 x Ironing boards shared with Studio Theatre
Clothing racks	1 x portable rack per dressing room + several in Laundry

Production facilities

Production Desk

Production desk can be set up centre of the stalls or front of Dress Circle. Table accommodates 2 – 3 people with (desk lamps available), sACN/DMX for lighting control, 240V power, and talkback.

Production Office

There is no dedicated Production Office. Hot desk options available.

Internet access

Wi-Fi access available.

Greenroom

Please note: This is a shared facility.

Located on Level 1.

- Tea and Coffee
- Fridge and freezer
- Microwave
- Running water

Orchestral Equipment:

Please note: All orchestral equipment is shared between venues and is only available by prior negotiation and subject to availability. Hire fees apply to pianos. Please consult with Theatre Royal Venue Hire or Operations staff for a quote.

Piano Yamaha Upright	Tuning available by appointment at hirers expense
Piano Yamaha C7 Grand: 7 ½ ft	Tuning available by appointment at hirers expense
(13) x RAT Stands	'Opera' music stands with sconces
(1) x RAT Stands	'Opera' conductors stand with sconces
	Fixed height chairs available by request.

Portable Staging:

- (4) x Megadeck 2400mm x 1200mm staging panels
- (16) x 300mm legs
- (8) x 350mm legs
- (6) x 350mm wheeled legs
- (8) x 500mm legs
- (16) x 600mm
- (8) x 950mm legs

Venue Access

Stage Door Access

The Stage Door is located on Sackville Street. Access is via PIN code for the electronically secured door. Operations management will program and issue a unique PIN for every visiting company, and detailed access instructions will be forwarded ahead of arrival. Access hours will be scheduled by negotiation.

Please note: access codes will not work outside of allocated times.

Loading Dock Facilities

Access 1 – Hedberg Loading Dock

Truck access from Collins Street (between Campbell Street and Sun Street) to the Theatre Royal/Hedberg Loading Dock. Reverse up ramp on southeastern side of building. Larger vehicles will need to approach the dock by driving down Collins Street in an easterly direction.

Please note: articulated vehicles are unable to use the Hedberg Loading Dock due to overhead clearance.

Dock Leveller: Two lanes available, variable height 650mm - 1600mm

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 – Sackville Street Loading Dock

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

Dock Leveller: variable height hydraulic ramp up to 1500mm loading dock height
Please

Stage Door Dimensions: 3500mm High x 3000mm Wide

Restrictions / Obstructions

- Truck parks on a slight slope towards access platform.
- Nearby residents – noise is an issue during late night bump-out so please be mindful of this when bumping out.
- No vehicles in Sackville St while audiences are in as this is the emergency vehicle access.
- Please note: Sackville Street loading dock is only used for articulated vehicles, or any rigid vehicle with clearance issues in the Hedberg Loading Dock. This loading dock unloads directly onto the Theatre Royal stage, so access for Studio Theatre shows is strictly by negotiation and only if absolutely necessary.

Additional information

Orchestral

- Piano (Yamaha Upright) - tuning available by appointment at hirers expense
- Piano (Yamaha C7: 7 ½ ft) - tuning available by appointment at hirers expense

Music stands

- 14 music stands and 1 x conductor stand with sconces plus separate dimmable scone circuit controlled in Prompt Corner.

Please note: Shared with Studio Theatre. Subject to availability.

Rehearsal Space

Subject to availability. Please check with Theatre Royal staff prior to arrival at the venue.

Staffing and scheduling

A minimum of two (2) Theatre Royal technicians 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

Website	www.theatreroyal.com.au
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Venue contacts

Physical address	The Hedberg Corner of Campbell & Collins Streets, Nipaluna/Hobart
Postal address	Theatre Royal, PO Box 145, GPO Hobart, TAS, 7001

Box office

Opening hours	9am - 5pm Monday to Friday
Phone	+61 (03) 6146 3300
E-mail	boxoffice@theatreroyal.com.au

Staff contacts

Operations Manager Email Phone	Reuben Hopkins production@theatreroyal.com.au 03 6146 3309
Technical Coordinator Email Address Phone Number	Aron Webb production@theatreroyal.com.au 03 6146 3312
Venues and events Email Phone	Alison St Ledger venues@theatreroyal.com.au 03 6146 3317
Box Office Email Phone	boxoffice@theatreroyal.com.au 03 6146 3300

Venue plans

- Venue plans are available on Theatre Royal and CAD drawing can be emailed upon request.

