



THE
ROUND

THEATRE

Technical Specifications

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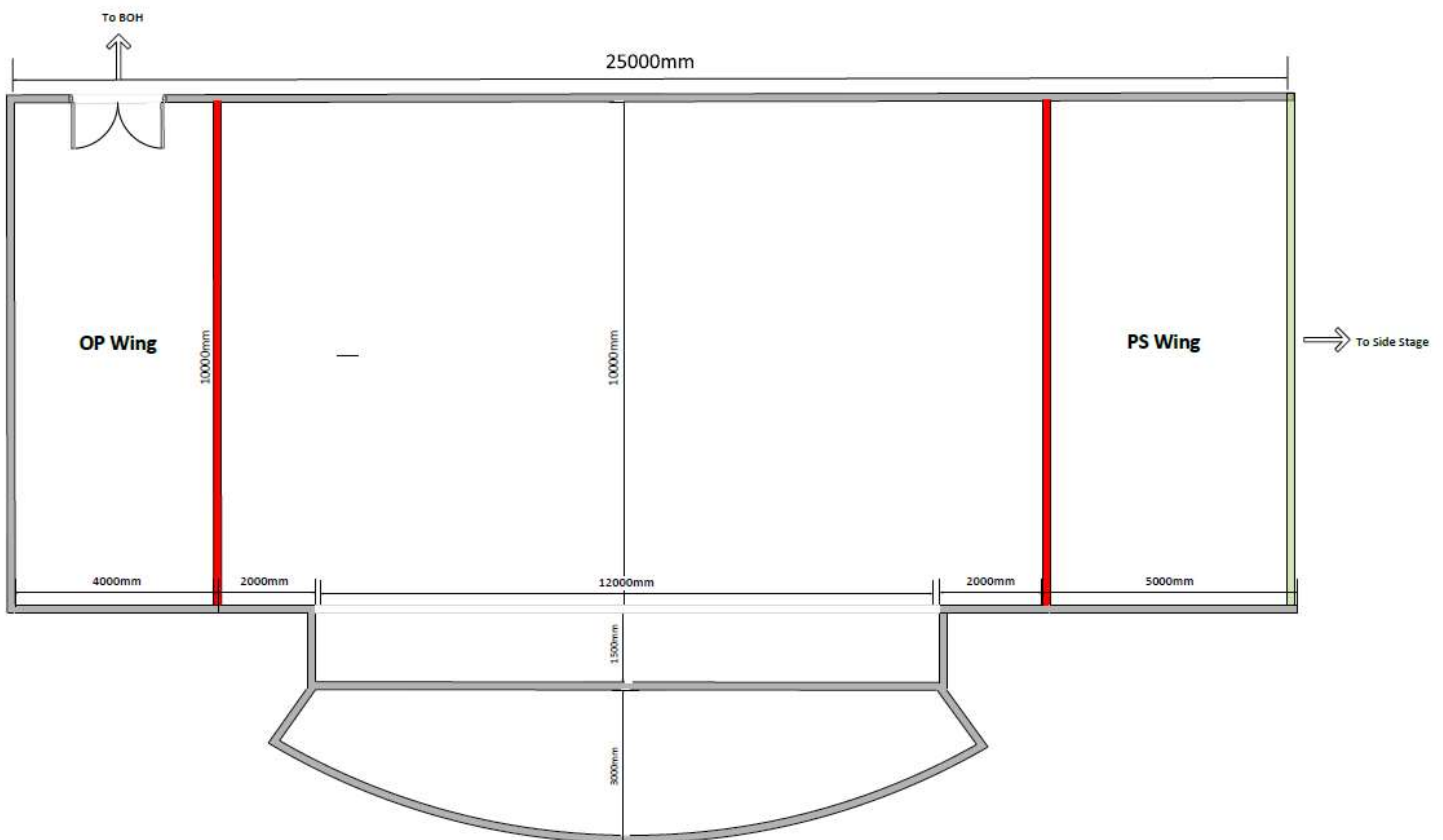
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Stage

Brief Stage Description

Unraked stage with a proscenium arch and flying facilities. Structural plywood floor (Weathertex) with paint finish.

Stage distributed load limit	750kg / m²
Stage Point load limit	450kg / m²
Stage Rake	No



Stage Dimensions

SL – setting line, CL – centreline, DS – downstage, US – upstage, PS – prompt side, OP – opposite prompt

Setting line position **Upstage edge of proscenium**

Proscenium width	12000mm
Proscenium height	7000mm
Proscenium depth	10000mm

SL to DS edge of apron	1500mm
SL to DS edge of orchestra pit	4500mm
SL to last upstage fly line	8750mm
SL to rear wall	10000mm
CL to OP wall (or obstruction)	11900mm
CL to PS wall (or obstruction)	16000mm
Stage to underside of grid	16700mm
US edge of pit to last upstage fly line	10000mm

Overhead Obstructions

US Gallery Crossover height	8750mm
Forestage Catwalk height	8750mm
PS Gallery height	8750mm
OP Gallery height	8750mm
Proscenium	7000mm

Auditorium

Auditorium consists of stalls 626 seats. Seating capacity is 580 if orchestra lift seating is not utilised.

Orchestra Lift/Pit

The orchestra lift system must be operated by a Venue Technician only.

Set positions for orchestra lift include:

Seating level with seating rostra	Level with auditorium
Stage level	1000mm above auditorium
Orchestra pit playing level	1400mm below auditorium
Orchestra Pit Capacity	28 musicians and 1 conductor
Orchestra Pit distributed load limit	750kg / m2, maximum 6,000kg
Orchestra Pit Point load limit	450kg /m2
Dimensions of Orchestra Pit	12000mm x 4000m useable area

Flying Facilities

All flown items must have fit-for-purpose pickup points and is subject to approval by a venue representative. Limited rigging gear available in-house. The Round reserves the right to refuse the flying of any item at any time.

The Round has a hybrid system comprising of:

- Motorised hoists for control of LX bars and house curtain
- Manual counterweight rigging linesets to support scenery, drapery, and other staging components

Operating position	Stage level, OP
Total number of lines	43 + 4 panorama lines
LX Lines	Spot bars with power/DMX 48 O.D pipe batten
Panorama Lines	2 bars OP and 2 bars PS, 1 bar with (2) lighting ladders 48.4 OD pipe, 1 bar with tabs
LX Ladder	8 total - 50mm x 75mm RHS batten, 48.4 OD
Batten flight height	16700mm

Batten type	50mm x 75mm x 5mm 50/75 RHS continuous weld
Batten length	16000mm
Batten weight	144kg
Batten extension	Yes – 1m extensions, 100kg WLL
LX bars can be swung	No
Fly bars can be swung	Yes – Team Leader approval must be obtained
Batten W.L.L.	504kg in addition to batten weight
Batten point load	at lift line 165kg, between lift lines 165kg
Grid	Can be used as rigging point, WLL 5kPa
Cradle Capacity	504kg

Maximum allowable WLL of loft and head beams = 20T

NOTE: If every batten was loaded to full capacity the load would be 23.65T - 20T IS NOT TO BE EXCEEDED

Additional Information

LX Spot Bar weight	240kg
Overhead FB weight (p/ bar)	48kg

Hanging Plot

Line type: *SP* –single purchase, *MH* – motorised hoist, *WLL* – maximum distributed load including bar weight

Line #	mm from SL	Line Type	W.L.L of lineset	Venue Allocation	Intended Use (hiring company use)
1	200	SP	500kg	Border	Available – general purpose batten
2	400	MW	650kg	House Curtain	1.2m/sec - variable speed
3	600	SP	500kg		Available – general purpose batten
4	800	SP	500kg	Border + flown FB	Not available
5	1000	SP	500kg	Leg 1	Not available
6	1200	SP	500kg		Available – general purpose batten
7	1400	MW	500kg	LX 1	0.5m/sec - fixed speed
8	1600	SP	500kg		Available – general purpose batten
9	1800	SP	500kg		Available – general purpose batten
10	2000	SP	500kg		Available – general purpose batten
11	2200	SP	500kg	Leg 2	Not available
12	2400	SP	500kg		Available – general purpose batten
13	2600	SP	500kg		Available – general purpose batten
14	2800	SP	500kg		Available – general purpose batten
15	3000	SP	500kg		Available – general purpose batten
16	3200	SP	500kg	Border	Not available
17	3400	SP	500kg	Leg 3	Not available
18	3600	SP	500kg		Available – general purpose batten
19	3800	MW	500kg	LX 2	0.5m/sec - fixed speed
20	4000	SP	500kg		Available – general purpose batten
21	4200	SP	500kg		Available – general purpose batten
22	4400	SP	500kg	MS Proj. Screen	Not available
23	4600	SP	500kg	MS tab	Not available
24	4800	SP	500kg		Available – general purpose batten
25	5000	SP	500kg		Available – general purpose batten

26	5200	SP	500kg	Border + flown FB	Not available
27	5400	SP	500kg	Leg 4	Not available
28	5600	SP	500kg		Available – general purpose batten
29	5800	MW	500kg	LX 3	0.5m/sec - fixed speed
30	6000	SP	500kg		Available – general purpose batten
31	6200	SP	500kg		Available – general purpose batten
32	6400	SP	500kg		Available – general purpose batten
33	6600	SP	500kg		Available – general purpose batten
34	6800	SP	500kg	Border	Not available
35	7000	SP	500kg	Leg 5	Not available
36	7200	SP	500kg	Scrim/gauze	Available
37	7400	MW	500kg	LX 4	0.5m/sec - fixed speed
38	7600	SP	500kg		Available – general purpose batten
39	7800	SP	500kg		Available – general purpose batten
40	8000	SP	500kg	Border	Not available
41	8200	SP	500kg	US tab	Not available
42	8400	SP	500kg		Available – general purpose batten
43	8600	SP	500kg	Cyclorama	Not available
44	8800	N/A	N/A	N/A	Not available
OP1		SP	500kg	Pano bar - Legs	
OP2		SP	500kg	Pano bar - LX	LX ladder assembly weight: 182kg
PS1		SP	500kg	Pano bar – LX	LX ladder assembly weight: 182kg
PS2		SP	500kg	Pano bar - Legs	

Drapery

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Velvet, 100% Combed Cotton	Red/Black	8000mm	8500mm	2
Borders	80% Wool, 20% Polyester	Black	16000mm	3000mm	4
			16000mm	4500mm	2
Legs	80% Wool, 20% Polyester	Black	3000mm	9000mm	5 pair
Tabs / Smother	80% Wool, 20% Polyester	Black	8000mm	8500mm	2 pair
Cyclorama	Plastic	White	160000	9000mm	1
Star cloth		Black	6000mm	4000mm	4
Silver Fog Finish cloth	Spandex	Silver	14000mm	8000mm	1
Sequin drape		Black	1200mm	6000mm	2
Gauze	100% Cotton	Black	16000mm	9000mm	1

Access Equipment

Elevated Work Platform

Haulotte Vertical Mast STAR 10 self-propelled single person lifter

Must be operated by a Venue Technician unless prior approval obtained by Technical & Venue Services Team Leader

One additional staff member to be located at base whilst in use.

Maximum reach **10000mm**

Maximum drivable height **8000mm**

Maximum lift capacity **200kg**

Ladders

(2) 0.9m double sided step ladder

(2) 1.8m six step ladder

(1) 2.4m platform ladder

(1) 3.6m platform ladder

Staging Units

- (8) Ezy Staging Units 2.4m x 1.2m x 400/600mm (variable height)
- (4) Tread units
- 0-600mm DDA Compliant accessible ramp, 1:14 1.2m W x 5.8m L

Safety Curtain

Safety Curtain installed **No**

Loading Dock

The loading dock is shared across multiple spaces in The Round. Access to the loading dock is by prior arrangement with the Venue and Technical Services Team Leader. Truck access is via The Round car park.

Door dimensions	7500mm High 3950mm Wide
Loading dock lift	1420mm x 1600mm x 2170mm 1500kg WLL

Lighting

Positions

Stage LX Bars

LX Bars cannot be swung. See hanging plot for standard LX bar locations.

FOH Catwalk 1

Setting Line to lighting bar **5750mm**

Usable bar width **14700mm**

Notes -

FOH Catwalk 2

Setting Line to lighting bar **11250mm**

Usable bar width **14700mm**

Notes -

Notes N/A

Standard Rig

- See standard The Round Lighting Plan

Dimmer Racks/Power

Total Dimmers **(30) LSC Gen VI 12 channel X 10amp**

3 Phase Outlets available. Please discuss with Venue & Technical Services Team Leader for further details about location and quantity.

House Lights

Independent control **Yes – controlled by Dali**

Control positions **Control Room, PS and OP wings**

Stage Luminaire

Profiles

Make	Model	Angle	Detail / Accessories	Watt	Total
Prolights	EclProfile CT PLUS		(20) Gobo holders to suit, (32) irises, (32) homogenising filters	264W	32
Prolights	Zoom EclProfile Lens	15°-30°			6

Prolights	Zoom EclProfile Lens	25°-50°			9
Prolights	EclProfile Lens	19°			7
Prolights	EclProfile Lens	26°			10
Selecon	SL	15°/32°	(6) Gobo holders B size	650W	6

Cyc Wash

Make	Model	Detail / Accessories	Watt	Total
Prolights	EclCyclorama 050		170W	14

Movers

Make	Model	Control Channels	Detail / Accessories	Watt	Total
ShowPRO	R3 Wash	16/20		310W	14

Follow Spots

Make	Model	Angle	Detail / Accessories	Watt	Total
Robert Juliat	OZ LED		GT 4000R stand	600W	2

Additional

Item	Model	Model	Detail / Accessories	Watt	Total
Mirror Ball	Bright Light LMB-24		600mm diameter with motor		1
Hazer	Martin	Unique	DMX controlled		2

Production Desk

MA Lighting Grand MA3 Light CRV

Enclosed Control Room with operable windows at rear of auditorium, accessible via level 1.

Alternate accessible production desk configuration can installed be mid-stalls. Table accommodates 2 people with DMX, comms talkback, and audio patch lines.

Cabling

240v Extension Cable

The theatre has a good stock of extension leads to accommodate The Round standard lighting rig.

Audio

Control and Amplification

Primary Mixer

Allen & Heath dLive S7000, dual redundant MPS16 power supply
dLive DM64 MixRack
GX4846 audio expander (floating)

Amplifiers

4 x d&b audiotechnik 40D amplifier
1 x d&b audiotechnik 5D installation amplifier
2 x d&b audiotechnik D20 quad channel amplifier
2 x Quest QA1004

EQ	A&H dLive S7000
FX	A&H dLive S7000
Compression / Limiter	A&H dLive S7000

Speakers

FOH Speakers (Left and right)	8 x d&b audiotechnik Y8
	4 x d&b audiotechnik Y12
Front-Fill/In-Fill	6 x d&b audiotechnik 44s
Subs (Left and right)	4 x d&b audiotechnik Y-SUB

Foldback speakers

4 x Quest HP 125 overhead monitors on line 4

4 x Quest HP 125 overhead monitors on line 26

8 x d&b audiotechnik MAX2

Control Positions

Auditorium

Primary sound mix position at rear of auditorium

Alternate audio operating position mid-stalls between Row J and Row K. Seats must be allocated if company desk is to be placed in this position. Table accommodates 2 people with DMX, comms talkback, and audio patch lines.

Control Room

Enclosed Control Room with operable windows at rear of auditorium, accessible via level 1.

Playback

Item	Make	Model	Detail	Total
Mac Mini	Apple		QLab 5, iTunes	2
CD/USB Player	Tascam	CD200SB		1

Microphones & Dis

Make	Model	Detail / Accessories	Use	Total
Sennheiser	EW500G4-GBW	Wireless set (RX, beltpack TX)		25
Sennheiser	SKM500-G4 with MMD945-IBK capsule	Wireless handheld		16
DPA	4066-OC-A-F00-LH	Wireless headset		4
JAG	IMX6A	Wireless headset		25

Sennheiser		Lapel mic		2
Beyer	M88	Dynamic hyper-cardioid	Vocal/instrument	2
Beyer	M201	Dynamic hyper-cardioid	Instruments/drum	2
DPA	4011C	Cardioid condenser	Instrument/choir	10
Shure	Beta 58A	Dynamic hyper-cardioid	Vocals	12
Shure	SM57	Dynamic cardioid	Instrument	6
Sennheiser	E835S	Dynamic cardioid switch	Vocals	4
Shure	52A	Large diaphragm dynamic	Kick/bass	1
AKG	D112	Large diaphragm dynamic	Kick/bass	1
Sennheiser	E904	Dynamic cardioid	Drum	5
Audix	DP5A	Pro 5-piece pack	Drum	1
Rode	NT55	Pencil condensers	Overheads	6
sE Electronics	SE1-A	Pencil condensers	OHS, strings, piano	4
Shure	Microflex	Gooseneck condenser	Lectern	2
AKG	HM1000	Cardioid condenser	Choir	6
Shure	Beta 91a	Condenser Lo Z boundary	Kick, tap, instru.	1
Radial	JDI	Passive DI		12
Radial	JDI Stereo	Passive DI		6
Radial	USB-PRO	24 BIT USB Stereo DI		3
Radial	BT-PRO	Bluetooth stereo receiver		2

Accessories

Item	Model	Detail	Total
Microphone Stands	K&M	Tall telescopic boom with tripod base	18
	K&M	Tall telescopic straight with round base	4
	K&M	Tall telescopic boom with round base	6
	K&M	Short telescopic boom with tripod base	10

	K&M	Short telescopic boom with round base	8
	K&M	Table stand	4
Lectern	Lectrum		2

Cabling

The theatre has a good stock of cables to accommodate the venue's audio equipment. The inventory includes 3 pin XLR, SpeakON and Cat 6 cabling. If additional audio equipment is being brought in additional cabling will be required.

Audio Visual

Projection Room

- 1 x Roland VH600 4k Multi-format Video Switcher
- 1x Extron DXP HD 4K Plus video matrix switcher with I/O cards
- 2 x 10" AV touch screens in Control Room and stage
- 1 x Mac Mini with QLab 5

*Users required to bring in adaptors if providing own laptops

Playback Options

- USB
- CD/DVD
- Laptop with HDMI connectivity

Projector

1 x Panasonic PT-RQ25KE, 3-Chip DLP, 4k Laser projector,

Lumens	20k
Native Resolution	3840 x 2400
Aspect Ratio	16:10

Projector located in control room at rear of auditorium.

Video imaging should be in UHD format – 4K (4096x2160P)

Projection Surfaces

- VarioClip flown front projection screen 9000mm W x 5000 H, line 26
- Cyclorama can be used as a projection surface

Backstage

Communications

Stage Manager's desk is located prompt side corner. The desk can be moved within its area and is fitted with a light, clock, stage video and audio, talkback and dressing room paging.

Talkback

Master Unit

Clearcom FSII-BASE-II

Total sub stations

10 beltpacks (wired) with headsets,

6 wireless beltpacks (FSIIBP) with headsets

Paging / Show relay

Paging to the dressing rooms is available from the stage manager's desk. Show relay can be distributed to all dressing rooms and greenroom. All rooms have an individual volume control.

Stage Monitor

Show relay is set-up in all Dressing Rooms, Green Room, Foyer and SM position. Camera located in Followspot Room.

Cue Light System

In house cue light system available

Yes – Leon Audio QLM16 Mk4

Production Facilities

Production Office	Yes. Dressing room 1 can be used as an office
Phone	No
Fax	No
Internet Access	Yes - Guest network available throughout venue

Dressing Rooms

Dressing rooms will be allocated based on the number of personnel associated with the production.

Dressing Room	Capacity	Toilet	Shower	Notes
DR 1	2 PAX	Yes	Yes	Dressing Room/Touring Office
DR 2	12 PAX	Yes	Yes	
DR 3	20 PAX	No	No	
DR 4	20 PAX	No	No	
DR 5	2 PAX	Yes	Yes	DDA compliant
DR 6	8 PAX	Yes	Yes	
DR 7	8 PAX	Yes	Yes	DDA compliant
DR 8	12 PAX	Yes	Yes	
DR 9	2 PAX	Yes	Yes	
Musicians Room	29 PAX	No	No	

Laundry / Wardrobe

The laundry is a shared facility which services multiple spaces within The Round and users will not have exclusive access.

Washing Machines	Yes – 4 Speed Queen 10kg Front Load
Dryers	Yes – 1 x Asko Drying Cabinet
Iron / ironing board	Yes
Clothes racks	21 mobile racks -

Green Room

The Green Room is a shared facility and Theatre/Studio users will not have exclusive access

Tea / Coffee facilities	Yes
Fridge	Yes
Microwave	Yes
Running water	Yes

Additional Facilities & Information

Stage Door/ Backstage Access

Stage Door is located next to the loading dock on the ground floor. This door requires a Company Representative to supervise access and kept secure at all times.

Hearing Augmentation

Hearing Augmentation System includes Listen Technologies system with induction loop and 24 receivers.