

TECHNICAL SPECIFICATION

THE PLAYHOUSE

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VENUE OVERVIEW

The inclusion of a dress circle in the design of this 750 seat proscenium arch theatre provides a warm intimate atmosphere popular with performers and audiences alike.

The fly tower, excellent technical facilities, spacious dressing rooms and green room area makes the theatre suitable for a wide variety of large events.

The venue is regularly used for live theatre, major concerts, meetings, launches and corporate events.

AUDITORIUM SEATING

Capacity	750
Stalls	426
Balcony	292

Two permanent positions are retained for Wheelchairs within the Stalls area.

Additionally, the use of the Orchestra Pit/ Thrust Stage &/or Production Desk Positions will impact the number of seats available for sale.

PRODUCTION DESK POSITIONS

House seating can be removed to facilitate production equipment and operation. Any removal of seating must be confirmed prior to tickets going on sale.

Removable seating is only available in the following locations:

Mid Stalls Centre:	L14-21 & M14-21
Rear Stalls Centre:	Q14-22 & R15-22
Balcony Centre:	E14-19 & F 14-19

ACCESS FOR SCENERY

A ramp leading up to the dock door is off Little Malop Street on the eastern side of the building.

Ramp Height (max. vehicle height)	4.4m (14'5")
Ramp Width	3.36m (11')
Scenery Dock Doors (above Ramp level)	1.18m (3' 10 1/2")
Scenery Dock Doors: Height	3.6m (11' 9 1/2")
Width	3.5m (11' 6")
Scenery Dock to Stage Doors:	
Height	4.8m (15' 10 1/2")
Width	2.3m (7' 6 1/2")

FIRE SAFETY

All scenery and staging elements must be adequately flame proofed.

No scenery/staging elements are permitted to obstruct the operation of the Fire Curtain.

DIMENSIONS

PROSCENIUM

Width	12.13m (39' 9 1/2")
Height	7.96m (26' 1 1/2")

STAGE DEPTH

Front of stage to setting line (Stage edge to pro opening)	1.27m (4' 2")
Depth from front edge of stage to back wall	12.81m (41' 0 3/8")

STAGE WIDTH

Wall to wall	26.64m (87' 4 3/4")
O.P. from centre	15.5m (50' 10 1/4")
P.S from centre	11.14m (36' 8 1/2")
P.S. from centre to hand flys	10.45m (34' 3 1/2")

STAGE SURFACE

Rake - Nil	
Material – Timber (Masonite covered)	3 cm (1 1/4")
Masonite width (equal on centre line)	17.364m (57')
Wings - concrete	
All flush	

STAGE HEIGHT

To underside of grid	18.49m (60'8")
Under fly galleries	8.5m (27' 11")
Clear space under fly galleries	7.285m (23' 11")
Loading Bay	16.715m (54' 10")

STAGE TRAP

Located centre downstage position	4.2m from front edge of stage
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WIDTH BETWEEN FLY GALLERIES

18.545M (60' 9 1/2")

ORCHESTRA PIT

1. Orchestra Lift (Crescent shaped) - Electrically operated by Acme thread screws, the orchestra lift may be used in a number of ways:
 - (a) as forestage at stage level
 - (b) as additional two (2) rows of seating at auditorium level - 1.3m (3'4 1/2") below stage level (standard position)
 - (c) as an Orchestra Pit - 2.44m (8'0") below stage

- (d) as a platform self locking at any position between
Orchestra Pit level and Stage level

Orchestra Pit Dimensions:

Radium front, wall to wall straight across in	13.88m (45'6 1/2")
Straight back	12.66m (41'6 3/8")
Width at centre	2.7m (8'10 3/8")
Width at walls (on a slight angle)	1.57m (5' 1 3/4")
Designed for 50 musicians	

Under Stage Section Dimensions:

Width	1.8m (5' 10 3/8")
Length	12.165m (39'11")
Height at the back	2.085m (6' 10")
Height at the front	2.25, (7' 4 3/4")

STAGE MACHINERY

FLY BARS

41 single purchase counter-weight sets, with 300 kg barrel weight limit evenly distributed.
Operated from stage floor prompt side

PANORAMA BARS

2 single purchase counter-weight sets, with 300 kg barrel weight limit evenly distributed.
Operated from stage floor prompt side

LOWERABLE BOX BOOMS

Lowerable box booms driven by electric chain hoists, with 200kg weight limit evenly distributed

ACCESS EQUIPMENT

JLG 20DVL – self propelled elevating work platform
Snorkelift TV-25 – elevating work platform

STANDARD HANGING PLOT

Line Type: **SP** = Single purchase, **DP** = Double purchase, **MW** = Motor Winch, **HW** = Hand Winch, **HL** = Handline

W.L.L.: Maximum distributed load including bar weight

Line #	Dist. from SL	Line Type	W.L.L	Venue Allocation	Intended Use (hiring company use)
1	236mm	SP	300kg	Teaser	Not Available for Use
2	441mm	SP	300kg	House Curtain	Not Available for Use
3	636mm	SP	300kg		
4	801mm	SP	300kg		
5	1046mm	SP	300kg	Lighting Bar 1	
7	1441mm	SP	300kg		
8	1631mm	SP	300kg	Border 1	
9	1831mm	SP	300kg	Leg 1	
10	2031mm	SP	300kg		
11	2231mm	SP	300kg	Lighting Bar 2	
12	2511mm	MW	300kg	Cinema Screen	Not Available for Use
13	2838mm	SP	300kg	Quarter Stage Tabs	
14	3031mm	SP	300kg	Border 2	
15	3231mm	SP	300kg	Leg 2	
16	3431mm	SP	300kg	Lighting Bar 3	
17	3631 mm	SP	300kg		
18	3836 mm	SP	300kg		
19	4045 mm	SP	300kg		
20	4431 mm	SP	300kg		
21	4631 mm	SP	300kg		
22	4831 mm	SP	300kg	Border 3	
23	5031 mm	SP	300kg	Leg 3	
25	5431 mm	SP	300kg	Lighting Bar 4	
26	5836 mm	SP	300kg	Half Stage Tabs	
27	6236 mm	SP	300kg		
28	6426 mm	SP	300kg	Border 4	
29	6631 mm	SP	300kg	Leg 4	
30	6826 mm	SP	300kg	Lighting Bar 5	
33	7446 mm	SP	300kg		
34	7636 mm	SP	300kg		
35	7836 mm	SP	300kg		
36	8036 mm	SP	300kg		
37	8226 mm	SP	300kg		
38	8446 mm	SP	300kg	Border 5	
39	8836 mm	SP	300kg	Leg 5	
40	9036 mm	SP	300kg		Static Items Only
41	9236 mm	SP	300kg	Lighting Bar 6	Not Available for Use
43	9636 mm	SP	300kg		
44	9846 mm	SP	300kg	Full Stage Black Tabs	
45	10041mm	SP	300kg	Panorama Bar	Prompt Side
46	10246 mm	SP	300kg		
47	10446 mm	SP	300kg	Cyclorama	Not Available for Use
48	10643mm	SP	300kg	Panorama Bar	Opposite Prompt Side

Note: Lines 6, 24, 31, 32 & 42 are void

STAGE DRAPES

LEGS

Five (5) pair 9.6m drop x 4.6m wide (31'6" x 15'1")
Material: Black wool 528g/sq.m, Slight Fullness

BORDERS

Five (5) of 3.0m drop x 17.7m wide (10' x 56')
Material: Black wool 528g/sq.m, No Fullness

TABS

Three (3) pair 9.6m drop x 17.7m combined width (31'6" x 56') with overlap for French action
Material: Black wool 528g/sq.m, Slight Fullness

CYCLORAMA

One (1) white 9.26m drop x 16.35m wide (30' 4 1/2" x 53' 7 1/2")
Material: White Filled Shark Tooth

SCRIMS

Two (2) black/white cotton scrims are available, 9m x 16m

HOUSE TABS

Brown Woollen weave on tormentor wires to cover Proscenium opening, with fullness.
Can be flown

HOUSE TAB BORDER

Top Masking for house curtain, same material as house curtain.

STAGE MANAGEMENT CONTROL SYSTEM

Paging and programme relay to all backstage areas
Talkback communication to all production areas
(1 x Clear-Com MS-232 2-channel Main Station)
(8 x Clear-Com RS-501 beltpacks & headset)
F.O.H. Announce Mic (see Sound Web design below)
Cue light system
CCTV monitoring of stage
PABX phone
Dimmable desk lamps

SOUND FACILITIES

LOUDSPEAKER SYSTEM

The main speaker system is a JBL AE design and is configured as a Left/Centre/Right system. Additional speakers are used for front fill and rear delay on both levels, as well as a box seat fill.

Flown in the centre cluster position are two (2) AM6200/64 and one (1) AL6115 to cover the balcony with one (1) AM4200/64 underneath for stalls coverage. Also flown in a L & R configuration for the balcony is one (1) AM6315/64 each side. Mounted each side of the proscenium arch for L & R stalls coverage is one (1) AM6315/95 speaker. A further two (2) ASB6128 speakers are flown for the ultra low frequency component of the system.

Front fill comprises of six (6) Tannoy CPA5 compact loudspeakers recessed into the front edge of stage. Tannoy CPA5 speakers are also used for the rear delay. Six (6) speakers are used for rear of stalls coverage and a further six (6) speakers for the upper balcony.

DRIVE AND CONTROL

Amplification and the drive/control system are housed in single rack in the patch room. Amplification is provided by 4 x Powersoft 4004 and 1 x Powersoft DIGAM 7000 for the subwoofers providing a total of 13,170 watts . Two BSS SoundWeb processing devices provide the drive, time align and control.

MIXING CONSOLE

Allen & Heath ML3000
40 Channels, VCAs, LCR panning

PLAYBACK / PROCESSING

1 x YAMAHA SPX 990 Multi FX
1 x YAMAHA REV 500 Reverberator
2 x dbx 2231 Graphic Equalisers
1 x dbx 1046 4 Ch Compressor/Limiter
1 x SONY CDP-D11 CD player
1 x MARANTZ PMD 502B Cassette Deck

SPEAKER TRIM HEIGHT

(Bottom of speaker to stage height)

Flown Left and Right	5450mm
Centre cluster	6060 mm

SOUNDWEB DESIGN

SYSTEM INPUT MODES

The SoundWeb has been programmed with different input modes. Using the remote control, a system-input mode can be selected. The following modes are available:

1. L & R ROCK: 2 Input: Left, Right with Centre, Sub and Delays derived from L & R.
2. LCR: 3 Input: Left, Centre, Right with Sub and Delays derived from L & R.
3. LCR SUB: 4 Input: Left, Centre, Right, Sub with Delays derived from L & R.
4. L, R MUSICAL: 2 Input: Left, Right with Centre, Sub and Delays derived from L & R.
5. MUSICAL: 4 Input: Mono for Radio mics (with Haas Delay), Mono no Front Fill for floor mics (with Haas delay), Left No Front Fill, Right No Front Fill for Orchestra
6. LCRSD: 5 Input: Left, Centre, Right, Sub and Delays.
7. SEPERATE: 7 Input: Flown Left, Flown Right, Prosc. Left, Prosc. Right, Centre, Sub, Front Fill and Delays.

STAGE TO AUDITORIUM PAGING

The Stage Manager is able to make announcements through the Sound System at anytime via direct input to the SoundWeb via the input on the rear of the remote. The flip & key switch on the SM console switches the route switch on the main matrix in unit one via the contact closure inputs.

CABLING INFRASTRUCTURE

60 tie lines are available between the stage and all control points.

XLR connectors are used throughout.

Ethernet runs are also available.

AUDIO POWER

30 AMP 3 PHASE (Located in the Scenery dock cage)

LIGHTING FACILITIES

MAIN LIGHTING CONTROL DESK

Strand 520 Genius Pro Console (OS v2.8.6)
C/w 300 Channels, Tracker and Networker software, IPAQ wireless riggers remote, two monitors and keyboard

DMX RETICULATION

Three (3) runs of DMX are available to areas further detailed on the lighting plan. Run A is used for venue lighting infrastructure and runs B and C are available for toured equipment.

DIMMERS

Analogue dimmers:

40 x 2kw, 76 x 5kw and 4 x 10 kW dimmers (Analogue to digital conversion via LSC linklights)

See below for detail on hardwired dimmers.

Total analogue dimmers: 120

Digital dimmers:

132 x 2.5kw dimmers (Eleven (11) APC Solution 12 dimmers are distributed around galleries and lighting positions) See lighting plan for further detail.

Total digital dimmers: 132

TOTAL AVAILABLE DIMMERS: 252

FRONT OF HOUSE LIGHTING BRIDGES

Bridge No. 1

Patch Panel No.1 Dimmers 1-26 hardwired

2 x APC 12 Channel dimmer racks

14 x Sub Patch Circuits (Numbered 15-28)

Bridge No. 2

1 x APC 12 Channel dimmer rack

14 x Sub Patch Circuits (Numbered 1-14)

Patchable to Patch Panel No.1 (Bridge No.1)

Also, each Bridge has one (1) special effect circuit operated from S/M Panel P/corner.

FRONT OF HOUSE BALCONY BAR

8 x Sub Patch Circuits (Numbered 49-56)

Patchable to Patch Panel No.1 (Bridge No.1)

Also there are two (2) special effects circuits operated from S/M Panel P/corner.

STAGE

On Stage there are 6 lighting bars.

Lighting bars 1 – 5 have:

20 x 10amp Sub Patch Circuits

4 x 20amp Sub Patch Circuits

Lighting bar 6 has:

12 x 10amp Sub Patch Circuits

6 x 4-way outlets (hardwired to 10kw dimmers)

All Bars Patched to O.P. Fly floor Patch Panels by multicore looms

BOX BOOMS

Box booms are provided on P.S. and O.P. Booms are lowerable to assist with rigging.

Each box boom has:

8 x Sub Patch Circuits (Patchable to Patch Panel No.1 - Bridge No.1)

DMX (Patchable to all runs at Bridge 1)

DIMMER PATCH PANELS

O.P. FLY FLOOR

Hardwired to analogue dimmers:

Dimmers 27 - 44 (5kw)

Dimmers 45 - 53 (5kw)

Dimmers 77 - 80 (10kw)

Dimmers 81- 120 (2kw)

Digital dimmers:

48 x Dimmers (2.5kw) – wall mounted

24 x Dimmers (2.5kw) – hand rail mounted

P.S. FLY FLOOR

Hardwired to analogue dimmers:

Dimmers 60 - 63 (5kw)

Digital dimmers:

24 x Dimmers (2.5kw) – hand rail mounted

UPSTAGE WALL P.S.

Hardwired to analogue dimmers:

Dimmers 56 - 59 (5kw)

UPSTAGE WALL O.P.

Hardwired to analogue dimmers:

Dimmers 54 - 55 (5kw)

Dimmers 70 – 72 (5kw)

FLOOR WELLS P.S.

Hardwired to analogue dimmers:

Three (3) Dip Traps

Dimmers 67-68-69 (5kw)

Each dip trap has one outlet for each dimmer

FLOOR WELLS O.P.

Hardwired to analogue dimmers:

Three (3) Dip Traps

Dimmers 64-65-67 (5kw)

One (1) Dip Trap (Upstage)

Dimmers 73-74-75-76 (5kw)

LUMINAIRE ALLOCATION

30 x 575w Profiles ETC Source 4 Ellipsoid 26°

6 x 575w Profiles ETC Source 4 Ellipsoid 36°
 4 x 650w Profiles Strand SL 15 - 32° (Gobo wash)
 14 x 575w Profiles Zooms ETC Source 4 15° - 30°
 40 x 1 kW Fresnels + B/Door Strand Cantata 6"
 9 x 2 kW Fresnels + B/Door Robert Juliet 8"
 8 x 1000w Ground row 4-way Selecon Aurora
 6 x 1250w Cyc Colortran Domino Quad
 2 x 1 kW Follow Spots Robert Juliet Korrigan 1200HMI
 (Refer standard lighting layout for position and dimmer allocation)

LIGHTING POWER

Location - upstage P.S. 3 Phase Power Outlet 100Amp.
 Hardwire (fitting can be supplied)
 1x30 amp 3 phase. OP wings downstage floor level
 1x30 amp 3 phase. OP fly floor
 (Refer standard lighting layout for additional 3Phase locations)

PROJECTION FACILITIES

Two (2) V.I.P Pro 35mm Projectors, with optical
 sound track and electric change over.
 6000 foot spools maximum

One (1) Fumeo 16 mm Projector, magnetic and optical
 sound track. 6,000 foot spool with anamorphic lens
 optional.

Perforated Screen – motor driven

Electric rewind, bench mounted.

Splicing block etc.

OUTSIDE BROADCAST FACILITIES

Theatre Location: In Orchestra Pit on O.P
 (Television left)

Facilities: 40 x L3 Cannon Receptacles - Females
 2 x BNC Video Connectors
 1 x 250v AC Socket

External Location: Access from Aitchison Place

Facilities: 40 x L3 Cannon Receptacles - Male
 2 x BNC Video Connectors
 1 x 5 Pin 30 Amp. Outlet (plug type
 WPT 330 ring grip)
 2 x 3 Pin 15 Amp (socket type WSC 115)

Coaxial Cable: AC wiring is run separately to ducting
 Lockable cable trap on panel

Land Lines: 4 x Land Lines via Telecom/Optus

DRESSING ROOMS & FACILITIES

All dressing rooms and facilities are shared between the Playhouse and Blakiston Drama theatres

DRESSING ROOM – NUMBERS AND FACILITIES

ROOM NO.	BASINS	W.C.'s	SHOWERS	MAKE-UP MIRRORS
1	4	Nil	Nil	20
2	5	Nil	Nil	25
3	3	Nil	Nil	13
4	2	Nil	Nil	4
5	2	Nil	Nil	4
6	2	Nil	Nil	4
7	2	1	1	2
8	2	1	1	2
9	1	1	1	2
10	2	1	1	2
11	2	1	1	2
12	1	1	1	2
13	Nil	Nil	Nil	1 (full length costume mirror)

One Men's W.C. and Shower Block comprising;

- 1) x 5 Showers
- 2) x 3 Basins
- 3) x 2 W.C.'s

One Women's W.C. and Shower Block comprising;

- 1) x 5 Showers
- 2) x 3 Basins
- 3) x 3 W.C.'s

To facilitate Dressing Rooms 1 to 6 and Green Room

Wardrobe Room, dimensions 5.7m x 4.2m comprising;

- 1) x 1 Tumble Dryer (coin operated)
- 2) x 2 Automatic Washing Machines (coin operated)
- 3) x 2 Washing Troughs - and Walk-in Drying Room
- 4) Wardrobe Room has 2 paging speakers - one from each theatre

Kitchen Facilities include:

- 1) Fridge
- 2) Microwave
- 3) Instant Boiling Water
- 4) Instant Chilled Water

Also available:

- 2 x Ironing Boards
- 1 x Steam Iron
- 2 x Work Tables
- 1 x Large Coffee Urn (subject to additional charges)

ADDITIONAL EQUIPMENT

GPAC can supply a wide range of additional equipment that is not fitted as standard (subject to additional charges). Please contact the Technical Department for further information.