

## TECHNICAL SPECIFICATIONS - IMB THEATRE

### AUDITORIUM

- 515 seats
- If Orchestra Pit or Forestage Thrust to be used, then total capacity is **30 SEATS LESS**  
*(A & B Rows are positioned on Pit at Auditorium level when Pit/Thrust not in use)*
- If Sound desk is to be located in Auditorium, then total capacity is **11 SEATS LESS**  
*(This is typically R16 – 20 & S16 – 21)*

### STAGE DIMENSIONS

<u>PROSCENIUM</u>	Width	11.80 metres	
	Height	7.00 metres	
<u>STAGE</u>	Width	OP wall to counterweight frame	20.10 metres
	Depth	Setting line to back wall	11.75 metres
		Setting line to last set of lines	10.60 metres
		Setting line to edge of forestage	0.80 metres

### ORCHESTRA LIFT / FORESTAGE THRUST

	Width	10.75 metres
	Depth	3.00 metres
	Load rating	7.50 tonne
<u>Operating Height</u>	Stage level to Auditorium level	0.850 metres
	Stage level to Pit level	2.70 metres
	And any intermediate level	

Screw-jack mechanism, control point located under stage, Lift floor contains 3 traps for lighting, audio & power outlets

### ORCHESTRA PIT

Trapezoid in shape

Width	at front	10.75 metres
Width	of rear	14.50 metres
Depth	at widest point	5.50 metres

Accommodates up to 30 musicians in comfort.

### STAGE FLOOR SURFACE

Hardboard nailed to Tallow Wood, full width, no level change, no rake  
 Load rating 7.5 kpa

### FORESTAGE ACCESS (JULIETS)

Doors either side of proscenium arch, 1 metre wide x 2.1 metres high

### STAGE ACCESS

#### SCENERY

Direct from scenery/loading dock, via acoustic sliding doors

Width	2.8 metres
Height	6.9 metres
Diagonal	7.5 metres

### PERSONNEL

3 single doors from dressing room corridors

### FLY TOWER

#### FROM STAGE LEVEL TO UNDERSIDE OF :

Level 1 ( 3 sides of stage - OP, Rear Wall, PS )	7.75 metres
Level 2 ( 3 sides of stage - OP, Rear Wall, PS )	10.80 metres
Level 3 ( PS only )	14.75 metres
Grid Height	17.65 metres
Width between fly galleries (Bridge to Bridge)	16.75 metres

<u>STANDARD BATTEN</u>	Length	15.40 metres
	Construction	Ø 48 mm O.D pipe

### STAGE MACHINERY

FIRE CURTAIN            Semi rigid sheet steel with electric winch

### HOUSE CURTAIN

Red Velvet, Single purchase counterweight set operated from PS corner, Line situated 250 mm US from setting line

### FALSE PROSCENIUM

Teaser, 15.40 m wide by 3.50 m drop, black  
Tormentors, 2.00 m wide by 8.40 m drop, black

## COUNTERWEIGHT-SYSTEM

50 single purchase 5 line counterweight sets, operated from stage level PS

400 kg cradle capacity with 4 extension cradles for an additional 200 kg. Total Rated Mechanical Capacity for any one line is 600kg.

16.80 m batten travel (from grid to floor)

Line No 1, 500 mm upstage of setting line

All lines at 150 mm centres, except those adjacent to structural steelwork

Panorama battens parallel to fly galleries

## CHAIN MOTORS, WINCHES AND CONTROL

4 x GIS D8+ 500kg Chain hoist with 20 metres chain, speed at 4 metres per Min, with position encoders

These hoists have double brakes and limits for safe rigging within a public space, according to the VLP Standards.

1 x Kinesys Smart 8 - 8way chain hoist control system with ability to write position cues and groups.

All associated motor cabling etc

## CURTAIN TRACK

1 manually operated curtain track 16.00 metres in length, french action

## STAGE DRAPERY

Legs: 5 pairs black wool each 5 metres wide by 8 metres drop  
1 pair black wool each 6.5 metres wide by 8 metres drop

Borders : 6 x black wool 15.4 metres wide by 3.8 metres drop, flat

Tabs : 1 pair black velour each half 8.30 metres wide by 8.40 metres drop on track, french action  
1 pair black wool each half 9 metres wide by 8.40 metres drop on track, french action

Cyclorama , Black sharktooth Gauze.

## LIGHTING FACILITIES

### LIGHTING CONTROL DESK

ETC ION 1000 Channel Console  
With 2 x 20 Submaster Wing (total of 40 faders)  
2 x 17" ELO Touch Screen  
And Radio Focus Remote

### DIMMERS

120 x 5 kW Bytecrafft IDS QUAD dimmers

### STAGE LANTERN AND ACCESSORIES

Standard lamp stock:

30 x	Selecon Pacific 12/28 1KW Profile Spots
4 x	Selecon Pacific 23/50 1KW Profile Spots
9 x	Selecon Acclaim 18/34 650w Profile Spots
6 x	Selecon Rama 1.2kW Fresnel
12 x	Selecon Arena 2KW Fresnel
30 x	Strand Harmony 15/28 1 kW profile spots
10 x	Strand Prelude 16/30 650 w profile spots
10 x	Strand Prelude 28/40 650 w profile spots
45 x	Strand Harmony 1 kWfresnel
2 x	Strand Nocturne 500w floods
18 x	Par 64 1kw MFL or NSP
5 x	Iris 4 1 kW 4 way cyc floods
6 x	Pallas 4 650 w 4 way ground row
2 x	Robert Juliat Topaze1200 follow spots

Additional Lamp Stock (shared – upon request):

12 x	Prelude 28/40 650 w profile spots
10 x	Prelude 16/30 650 w profile spots
2 x	Acclaim 650 w fresnel
2x	Parnels 800 w MFL/NSP Lenses
8 x	Par 64 1kW MFL or NSP
1 x	Unique II Hazer
1 x	Jem ZR12 Smoke Machine
4 x	Lighting pushup stands 3.5 m Max. height
5 x	H Stand
8 x	Lighting Ladders
1 x	60cm Dia. Mirrorball

Stock of Boom arms, Iris inserts, Gobo holders, wide variety of colour medium available.

DIMMER PATCH 349 circuits are distributed throughout the theatre & are fully patchable via a main patch panel in the dimmer room, situated on level 3 between our 2 venues. Approx 10 – 15m from OP fly gallery level 1.

DMX PATCH 8 way DMX distribution (Jands DD8) located on OP Fly gallery  
4 DMX Universes run between OP Fly floor and Bio Box  
2 DMX Universes run between OP Fly floor and Dimmer Room

### LIGHTING PATCH OUTLETS

Lighting Patch outlets are situated in the following positions

STAGE 4 x Lighting bars 6 x 20 amp, 24 x 10 amp

*N.B:- These outlets must be thru-patched to outlets on Fly Galleries. Please note there are only 20 patches per bar at Fly Gallery patching position.*

1 x Cyclorama bar 12 x 10 amp

*N.B:- These outlets must be through patched to outlets on Fly Galleries*

### FOH BRIDGES

#### No 1 FOH Lighting Bridge

Patch outlets 4 x 20 amp, 26 x 10 amp  
Throw from centre of bridge to setting line 8.00 metres  
Bridge length 16.00 metres  
Angle at setting line 68 degrees

#### No 2 FOH Lighting Bridge

Patch outlets 4 x 20 amp, 26 x 10 amp  
Throw from centre of bridge to setting line 9.40 metres  
Bridge length 17.50 metres  
Angle at setting line 44 degrees

#### No 3 Lighting Bridge

Patch outlets 4 x 20 amp, 26 x 10 amp  
Throw from centre of bridge to setting line 12.50 metres  
Bridge length 15.60 metres  
Angle at setting line 36 degrees

## BOX BOOMS/PERCHES

### Proscenium Booms PS & OP

Patch outlets (per side) 2 x 20 amp, 13 x 10 amp

Throw to setting line at centre of stage UNKNOWN metres  
Angle at setting line up to UNKNOWN degrees

### Box Booms PS & OP

Patch outlets (per side) 2 x 20 amp, 8 x 10 amp

*Will comfortably house 3 Profiles (Harmony/Cantata/Pacific)*

Throw to setting line at centre of stage 12.00 metres  
Angle at setting line up to 68 degrees

## Forestage (Juliets)

Patch outlets per side 2 x 20 amp, 3 x 10 amp

## FLY GALLERY PATCHING

<u>PS Fly Gallery</u>	No 1	2 x 20 amp, 18 x 10 amp
	No 2*	2 x 20 amp, 18 x 10 amp
	No 3	10 x 20 amp

<u>OP Fly Gallery</u>	No 1*	2 x 20 amp, 18 x 10 amp
	No 2*	2 x 20 amp, 18 x 10 amp
	No 3*	2 x 20 amp, 18 x 10 amp
	No 4*	2 x 20 amp, 18 x 10 amp

*Please Note Overhead lighting bars are configured to thruptach to groups of outlets marked with a \**

<u>Grid</u>	DS PS	2 x 20 amp, 3 x 10 amp
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## FLOOR WELLS

PS Floor Well	No 1 (DS)	1 x 20 amp, 4 x 10 amp
	No 2	5 x 10 amp,
	No 3	5 x 10 amp
	No 4 (US)	5 x 10 amp

OP Floor Well	No 1 (DS)	5 x 10 amp
	No 2	5 x 10 amp
	No 3	5 x 10 amp
	No 4 (US)	1 x 20 amp, 4 x 10 amp



## AUDIO FACILITIES

### SPEAKERS FOH

PS Proscenium	1 x Meyer UPA 2P (self powered) <i>Covers the upper section of the house</i> 1 x Meyer UPA 1P (self powered) <i>Covers the lower section of the house</i> 1 x Meyer USW Sub (Self powered)
OP Proscenium	1 x Meyer UPA 2P (self powered) <i>Covers the upper section of the house</i> 1 x Meyer UPA 1P (self powered) <i>Covers the lower section of the house</i> 1 x Meyer USW Sub (Self powered)
Centre Fill	1 x Altec Lansing Vari Intense 5 <i>Powered by Yamaha 2602 amplifier</i>
Delay Ring	4 x JBL System 400 <i>Powered by Yamaha 2602 amplifier</i>

### FOLDBACK

4 x FBT Jolly J8 Ba	(self powered)
2 x EV FM – 1202 Wedge	<i>Powered by Jands 920 amplifier</i>

### MIXER

- 1 x Allen & Heath iLive Digital mixing console with 48/24 StageRack and T112 control surface.  
*StageRack Patch points located at PS & OP DS, as well as USPS. A 20m and 30m extension is available to allow movement of the StageRack to another location*
- 1 x Yamaha MG16/6fx small frame console available for use if required for side stage mix etc.

### PLAY BACK EQUIPMENT *(shared between centre's venues)*

- 1 x Marantz PMD 331 CD Player (will not play CD-RW or MP3 CD)
- 1 x Denon 630 CD Player (will not play CD-RW or MP3 CD)
- 1 x Yamaha CDX-490 CD Player (will not play CD-RW or MP3 CD)
- 1 x Pioneer DV-383 DVD Player (will play CD-RW, CD-R & MP3 CD)
- 1 x Tascam 301 Mk II MiniDisc Recorder
- 1 x Denon Dual cassette Player DN-770R

### MICROPHONES (shared between centre's venues)

- 6 x Shure SM 58 Vocal Microphone
- 1 x Shure SM 57 Instrument Microphone
- 1 x Shure Beta 87 Vocal Microphone
- 1 x EV Cobalt CO5 Vocal Microphone
- 3 x AKG D310 Vocal/Instrument Microphone
- 5 x PCC 160 Crown Floor Microphone
- 2 x Realistic PZM Microphone
- 1 x Audio Technica 857 Gooseneck lecturn mic
- 2 x McLelland Passive DI Box PDB – 100
- 2 x Behringer Active DI Box DI-100

### RADIO MICROPHONES (shared between centre's venues)

- 2 x Shure ULX-P4 handheld System with SM-58 head\*
- 1 x Shure ULXp4 Bodypack transmitter with DPA 4066 to suit above receiver
- 1 x EV MR100 VHF fixed frequency handheld system\*

### MICROPHONE OUTLETS

Stage (In Floor wells P & OP wings)	20 total
Orchestra pit (In Floor wells P & OP of Pit)	16 total
Bridges/fly galleries	4 total
Auditorium (Floor well centre of Auditorium)	2 total

### OUTBOARD EQUIPMENT

- 1 x Klark Teknik DN360 Dual channel 30 band Graphic Equaliser
- 1 x Behringer Composer Pro Compressor Unit
- 1 x Allen & Heath IDR8 (currently managing all FOH speaker outputs)

## STAGE MANAGEMENT EQUIPMENT

### BOH PAGING

Back of house paging system to all dressing rooms, green room, technical offices and loading dock. Priority over-ride of dressing room volume control and show relay for stage management page. Paging microphone located Prompt Corner.

### CCTV

Colour CCTV Feed to Prompt Corner (camera located in front of Bio Box off overhead gantry) – 34cm Colour TV mounted above SMD

### STAGE MANAGERS CONSOLE

Stage Managers Console is fitted with a show timer and a light.

### COMMUNICATIONS

6 x Clearcom Belt Pack Units with Beyer/Clearcom Headsets

3 x Wireless Comms Units (Telex BTR) available on request

*Comms Patch outlets located:*

Stage dip traps (OP & PS)

PS side on fly rail

Prompt Corner/SMD

Bio Box

Auditorium (Row G – PS)

Auditorium (Centre Auditorium – Production Desk Position)

Fly Galleries 1,2 & 3 (OP & P)

Dimmer Room

Technical Office

Green Room

### DRESSING ROOMS

All dressing rooms have wash basin, toilet & shower facilities

No 1, 2, 3, & 4 adjacent to stage, IMB Theatre, 4 artists each

No 5 first floor, IMB Theatre, 27 artists.

No 6 first floor, IMB Theatre, 28 artists.

A further 2 dressing rooms (6 artists each) may be available by request.

A change room is also provided for technical staff.

## STOCK ROSTRA

Fully adjustable units, 1.0 metres by 2.0 metres, with height adjustable in 200mm increments to 900mm

A selection of trucks also available, varying sizes

## ORCHESTRA EQUIPMENT

1 x Conductor's score stand, adjustable

20 x Orchestra music stands with lights, adjustable

10 x Orchestra Music stands no lights, adjustable

13 x Removable sconce light

50 x Black Padded Orchestra chairs

3 x Padded Orchestra stools

IMB  
Theatre  
seating  
plan

