

# ILLAWARRA PERFORMING ARTS CENTRE

## IMB THEATRE TECHNICAL SPECIFICATIONS

### VENUE INFORMATION

- IPAC is located in central Wollongong and hosts two performance spaces and one studio/rehearsal space.



### AUDITORIUM

- The IMB Theatre has 515 seats. Rows “A” – “C” are level seating (i.e. not raked), Row “A” being closest to the stage. Row “G” is on entrance level and is the only row that does not require access via the stairs.
- If the Orchestra Pit or Forestage Thrust is to be used, then total capacity is 30 SEATS LESS. (“A” & “B” Rows are positioned on the Pit at Auditorium level when Pit/Thrust is not in use)
- If Sound desk is to be located in Auditorium, then the total capacity is 11 SEATS LESS. (This is typically “R16” – “20” & “S16” – “21”)

# STAGE SPECIFICATIONS

## Brief Stage Description

Unraked Proscenium Theatre, optionally the orchestra pit can be raised to the stage level to accommodate a forestage thrust.

Electro Mechanical Lift, control point located prompt side stage wall,  
Lift floor contains 3 traps for lighting, audio & power outlets.

### Stage Dimensions

#### Proscenium

|        |              |
|--------|--------------|
| Width  | 11.80 meters |
| Height | 7.00 meters  |

#### Stage

|       |              |                                     |
|-------|--------------|-------------------------------------|
| Width | 20.10 meters | (OP Wall to counterweight Frame)    |
| Depth | 11.75 meters | (Setting line to back wall)         |
|       | 10.60 meters | (Setting line to last set of lines) |
|       | 0.80 meters  | (Setting line to edge of forestage) |

#### Orchestra

|             |              |
|-------------|--------------|
| Width       | 10.75 meters |
| Height      | 3.00 meters  |
| Load Rating | 7.50 tonne   |

#### operating height

|                                  |              |
|----------------------------------|--------------|
| Stage level to Auditorium Height | 0.850 meters |
| Stage level to Pit Level         | 3.00 meters  |
| And at any intermediate level    |              |

## Orchestra pit (Trapezoid in Shape)

The Pit area can accommodate up to 30 musicians in comfort. The width at the front is 10.75 meters. The width of rear is 14.50 meters. The depth at the deepest point is 5.50 meters

## Stage Floor Surface

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

## Forestage Access (Juliet's)

Doors either side of proscenium arch. 1 meter wide x 2.1 meters high.

# STAGE ACCESS

## Scenery

Loading Dock is situated at the back of the venue (Northern Side). Access is available via Town Hall Lane off Burelli Street.

Direct from scenery/loading dock, via acoustic sliding doors Width 2.80 meters Height 6.90 meters Diagonal 7.50 meters

## Personnel

Stage Door is situated on the eastern side of the building off Town Hall Lane.

## Restrictions / Obstructions

Access to the loading dock is difficult due to sharp 90° turn required from Town Hall Lane.

Please call before arrival and for further information.

## FLY TOWER DETAILS

### Dimensions

From stage level to underside of:

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

### Standard Batten

|              |                 |
|--------------|-----------------|
| Length       | 15.40 meters    |
| Construction | Ø48 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 8.40m 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 centers, 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 meters chain, speed at 4 meters 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.

MERRIGONG  
THEATRE  
COMPANY

ILLAWARRA  
PERFORMING  
ARTS CENTRE

WOLLONGONG  
TOWN HALL

## CURTAIN TRACK

□ 1 manually operated curtain track 16.00 meters in length, french action.

| type      | material | colour | width       | height      | quantity  |
|-----------|----------|--------|-------------|-------------|-----------|
| Leg       | Wool     | Black  | 5.00 meters | 8.00 meters | 5 (pairs) |
| Leg       | Wool     | Black  | 6.50 meters | 8.00 meters | 1 (pair)  |
| Border    | Wool     | Black  | 15.4 meters | 3.80 meters | 6         |
| Tab       | Velour   | Black  | 8.3 meters  | 8.40 meters | 1 (pair)  |
| Curtain   | Wool     | Black  | 9.0 meters  | 8.40 meters | 1 (pair)  |
| Gauze     | Cotton   | Black  |             |             | 1         |
| Cyclorama |          | White  |             |             | 2         |

## STAGE DRAPERY ACCESS EQUIPMENT

### Elevated Work Platform

JLG 30AM Lifter Working Platform height 9.09m

### EWP Restrictions

Outriggers must be in and wound down to ascend and must remain in at all times, while in operation. One Merrigong staff member must be in the area at all times the EWP is in use. EWP only to be used by trained personal.

## LIGHTING

### Lighting control

Desk ETC GIO  
With 1 x 40 Submaster Wing

Control Channel 1000

Remote Riggers Yes, ipad

### Dimmer

Total Dimmers 216 x 2.4kW LSC Teko Channels  
24 x 5kW IDS Channels  
\*3 extra roving 12ch LSC Teko Dimmer Racks available on request.\*

## STAGE LANTERNS

| PROFILES         |                  |                      |         |       |
|------------------|------------------|----------------------|---------|-------|
| MAKE             | MODEL            | DETAILS              | WATTAGE | TOTAL |
| ETC              | Source 4         | Angle: 19°           | 750w    | 9     |
| ETC              | Source 4         | Angle: 26°           | 750w    | 10    |
| ETC              | Source 4 Zoom    | Angle: 15°-30°       | 750w    | 20    |
| ETC              | Source 4 Zoom    | Angle: 25°-50°       | 750w    | 10    |
| ETC              | Source 4 JR Zoom | Angle: 25°-50°       | 750w    | 26    |
| Selecon          | Pacific          | Angle: 12°-28°       | 1000w   | 20    |
| FRESNEL'S        |                  |                      |         |       |
| Selecon          | Rama             | All have barndoors   | 1200w   | 50    |
| Selecon          | Arena            | All have barndoors   | 2000w   | 12    |
| Strand           | Harmony          |                      | 1000w   | 20    |
| PAR CANS         |                  |                      |         |       |
|                  | Par 64           | Angle MFL, NSP, VNSP | 1000w   | 40    |
| CYC              |                  |                      |         |       |
| Iris 4-Way       | Strand           |                      | 1000w   | 5     |
| Pallas 4-Way     | Strand           | Ground row           | 625w    | 6     |
| FOLOWSPOTS       |                  |                      |         |       |
| Robert Juliat    | Topaze1200       |                      | 1200w   | 2     |
| ADDITIONAL STOCK |                  |                      |         |       |
| James Thomas     | 4-Way Molefay    | Par 36               |         | 10    |
|                  | Parnel           | MFL/NSP/VNSP         | 600w    | 2     |
| Look Solutions   | Unique 2         | Hazer                |         | 2     |
| Jem              | ZR12             | Smoke Machine        |         | 1     |
| ACL              | 4-way Par Bars   |                      |         | 4     |
| Martin Atomic    | Strobe           |                      | 3000w   | 3     |

## LIGHTING CONT.

### 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 – 15 from OP fly gallery level 1.

### DMX

8 way DMX distribution (Jands DD8) located on OP Fly gallery

4 DMX Patches run between OP Fly floor and Bio Box

2 DMX Patches run between OP Fly floor and Dimmer Room

3 DMX Patches to floor OP & P DS (back of Pros wall) and one US OP (On upstage wall)

## LIGHTING PATCH OUTLETS

Lighting Patch outlets are situated in the following positions:

### FOH Lighting Bridge 1

|   |                         |
|---|-------------------------|
| 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              |

### FOH Lighting Bridge 2

|   |                         |
|---|-------------------------|
| 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              |

### FOH Lighting Bridge 3

|   |                         |
|---|-------------------------|
| 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

### Procenium Booms PS & OP

Patch outlets (per side) 2 x 20 amp, 13 x 10 amp Throw to setting line at centre of stage 6.00 metres Angle at setting line up to Varying degrees Speaker hangs may affect sightlines/shots from this position.

If necessary please discuss with Merrigong's Technical Coordinator.

### 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 60 - 68 degrees

### Forestage (Juliets)

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

## FLY GALLERY PATCHING

### PS Fly Gallery

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

### Op Fly Gallery

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

### Grid

|       |                           |
|-------|---------------------------|
| DS PS | 2 X 20 AMP,<br>3 X 10 AMP |
|-------|---------------------------|

## FLOOR WELL

### PS Floor Traps

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 Traps

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

**Front Of Stage (DS)**

OP Side (In Trap at Front of Stage) 3 x 10 amp  
PS Side (In Trap at Front of Stage) 3 x 10 amp  
Substage Panel 2 x 20 amp, 2 x 10 amp

**Orchestra Pit**

PS Floor Trap 1 x 20 amp, 1 x 10 amp OP Floor Trap 1 x 20 amp, 1 x 10 amp

PS Floor Trap 1 x 20 amp, 1 x 10 amp OP Floor Trap 1 x 20 amp, 1 x 10 amp

**Control Room**

2 x 20 amp, 2x 10 amp

**Rear of House PS**

1 x 20 amp, 2 x 10 amp

**Rear of House OP**

1 x 20 amp, 2 x 10 amp

## AUDIOVISUAL FACILITIES

### **Projectors**

1 x Christie DWU555-GS

1 x CYC

1 x CYC

## AUDIO FACILITIES

Audio operating position – Located in the Tech Box or Auditorium

It is assumed all Audio operation is from the tech box, please confirm in advance if the Auditorium position is required, as the seats need to be taken off sale.

### Speakers FOH

Left and Right Hang of Nexo Geo Line Array System – designed for full coverage of the room.

1 x Geo S10 per side

2 x Geo S30 per side

1 x Nexo PS8's per side (as front row in fills)

Hung Centre of the Pros. is a pair of Nexo RS-15 subs.

All processing for FOH speakers is controlled by the NXAMP 4x4 which powers and drives the speakers.

### Mixer

1 x Midas PRO2 Digital Audio Console, with 1 x DL251 I/O rack with 48 inputs and 16 outputs. 2 x 100m. cat 5 reels to I/O to console from stage

### 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

All "Outboard" is now inboard and included on console.

## ADDITIONAL AUDIO

Supply is subject to availability, additional cost to hirers

|   |   |
|---|---|
| <b>Monitor Control</b>  |   |
| 1 x Allen & Heath iLive Digital mixing console with 48/24 Stage rack and T112 control surface |   |
| <b>Spot / Fold back Speakers</b>  |   |
| <b>Qty</b>  | <b>Description</b>  |
| 8   | EV xw12A with 4 x Q99 Amps  |
| 6   | FBT Jolly's   |
| <b>Microphones</b>  |   |
| 10  | Shure SM 58 Vocal Microphone  |
| 9   | Shure SM 57 Instrument Microphone   |
| 4   | Shure Beta58a Vocal Microphones   |
| 2   | Shure Beta87a Multipurpose Microphone   |
| 1   | EV Cobalt C05 Vocal Microphone (Switched)   |
| 1   | Beyer TGX58 Vocal Microphone (Switched)   |
| 5   | PCC 160 Crown Floor Microphone  |
| 1   | Audio Technica 857 Gooseneck Lecturn Mic  |
| 2   | Dpa 4099p Piano Mics  |
| 3   | Beyer Dynamic Tgi 53c   |
| 2   | Beyer Dynamic Tgi 57c   |
| 1   | Beyer Dynamic M88 Kick Drum Mic   |
| 2   | Sennheiser E906 Ei. Gtr. Mic  |
| 6   | Audio Technica 8033a Pencil Condensors  |
| 4   | Audio Technica Pro45 Drop Mics  |
| 1   | Audio Technica 857 Gooseneck Lectern Mic  |
| 1   | Shure Beta 87 Vocal Mic   |
| <b>Direct Injection Box</b>   |   |
| 4   | Klark Technique DN100   |
| 1   | Mclelland Passive Di Box Pdb - 100  |
| 5   | Behringer Active Di Box Di-100  |
| 3   | Radial J48  |
| <b>Radio Microphones</b>  |   |
| 2   | Shure ULX-P4 handheld System with SM-58 head  |
| 1   | Shure ULXp4 Bodypack transmitter with DPA 4066 to suit above receiver   |
| 7   | Sennheiser G3 Radio Mic Systems with Handheld and Bodypack System (Rack mounted with paddle aerial distributor) |

## 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**

Currently out of service for overhaul

### **Communications**

6 x Clearcom Belt Pack Units with Beyer/Clearcom Headsets

5 x Clearcom Freespeak Wireless Comms Bletpacks available on request. Aerial system is distributed for even coverage of backstage areas. Comms Patch outlets located:

Stage dip traps (OP & PS)

PS side on fly rail

Prompt Corner/SMD

Bio Box

FOH Bridge 3 – Follow spot position

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 meters by 2.0 meters, with height adjustable in 300mm increments to 900mm\*  
(\*At additional cost to hirer)

## ORCHESTRA EQUIPMENT

- 1 x Conductor's score stand, adjustable
- 20 x Orchestra music stands, adjustable
- 10 x Removable sconce light
- 50 x Black Padded Orchestra chairs
- 3 x Padded Orchestra stools