

# RPAC

REDLANDS PERFORMING ARTS CENTRE

## CONCERT HALL Technical Specifications

### STAGE FACILITIES

- Soft Proscenium
- Theatre mode (see stage masking)
- Concert Platform (open area with acoustic walls on PS, OP and US)
- Forestage Lift
- 13 off electric pile wind winches with lifting capacity (WLL) 500kg

### CONCERT PLATFORM DIMENSIONS

- |  |               |
|--|---------------|
| • Platform Width DS:                       | <b>18m</b>    |
| • Platform Width US:                       | <b>16m</b>    |
| • Platform Depth:                          | <b>12.5m</b>  |
| • Platform Depth including forestage       | <b>16.1m</b>  |
| • Height of platform from auditorium level | <b>1050mm</b> |
| • Platform to rigging points               | <b>9.14m</b>  |
| • Forestage Lift Depth                     | <b>3.6m</b>   |
| • Forestage Lift Width                     | <b>13m</b>    |

## FORESTAGE LIFT

(When lift is at lowest position, a small orchestra or ensemble can be accommodated below the audience – stage sightlines)

- Static Load Limit **6000kg**
- Working Load Limit (Dynamic lifting capacity) **6000kg**
- Uniform Distributed Load (Static or Dynamic) **7.5kPa**
- Maximum Point Load **4.5kN**
- Speed (regardless of load) **2.5 m/min**

## FLYING SYSTEM

- Fixed Pile Wind Electric winches (WLL 500kg) **13**
- Chain Motors (speakers only) **3**
- Five line pickup (3.75m centres) **5mmwires**
- Batten Dimensions **75 x 50 RHS**
- Batten Length **15.6m**
- Batten Drift **8m**
- WLL **500kg**

## HOUSE CURTAIN

- Manual Operation
- House Curtain is Velour with 100% fullness
- Traverse

## STAGE MASKING

- LEGS-Black wool with 75% fullness **6 off 8m x 4m**
- BORDERS-Black wool with 75% fullness **3 off 2m x 16m**
- TABS-Black (traverse) wool with 75% fullness **2 off 8m x 9m**
- CYCLORAMA-Filled cloth white Cyclorama **1 off 16m x 8m**

## ACCESS

- Loading Dock Door **3.2mW x 4.6H**
- Load-in door dimensions (STAGE) **1.8m W x 3mH**
- Crossover location **Rear of Acoustic wall**

## LIGHTING FACILITIES

### LIGHTING CONTROL

- ETC EXPRESS 250  
Located in Bio Box at the rear of Auditorium

### DIMMERS

- JANDS HPX 12ch 2.4k 10amp Racks (4 x wall mount) **10**
- Patching via flexible patch system

### FOLLOW SPOTS

- Canto MK2 1200w MSR **1**

The Follow Spot room is located above the Control room at the rear of the auditorium

## LIGHTING POSITIONS FRONT OF HOUSE

- BALCONY BAR - located above the last row of seating at the rear of the auditorium. There are ten x 10amp outlets spaced at 1.5m behind the rigging bar
- LIGHTING BRIDGE - located approximately 8m above the middle of the auditorium. There are twenty x 10amp outlets spaced at 1m behind the rigging bar
- LIGHTING BOOMS – Two lighting booms are located at OP and PS of the auditorium (four in total). Booms are spaced approximately 4.6m apart. There are six x 10amp outlets at each boom position

## LIGHTING POSITIONS STAGE

- Four stage lighting bars with 24 x 10amp outlets are rigged in permanent positions above the stage. An additional lighting bar is rigged in permanent position above the forestage thrust. All stage lighting bars are 16m in length

## ALLOCATED LIGHTING INSTRUMENTS

- BALCONY BAR                    **12 off 750w ETC 19° ellipsoidal spot**
- LIGHTING BRIDGE                    **24 off 1K Selecon Pacific 14/35**  
   **6 off 1K Selecon Pacific 7.5/19**
- FOH LIGHTING BOOMS            **2 off 1K Selecon Pacific 7.5/19**  
(Closest to stage)            **6 off 575w ETC multi par medium lens**
  
- STAGE    **24 off 1K 240v medium PAR 64**  
   **9 off 2k Selecon Arena Fresnel**  
**18 off 1.2k 80v Selecon Pacific Rama Fresnels**  
   **8 off 575w ETC 36° ellipsoidal spot**  
   **4 off 575w 26° ellipsoidal spot**  
   **18 off 575w ETC multi par wide lens**  
   **6 off 4 cell 1.25k 4 cell Spot light cyc units**
- FORESTAGE   **6 off 1.2k 80v Selecon Pacific Rama Fresnels**  
   **3 off 2k Selecon Arena Fresnels**  
   **6 off 575w ETC multi par wide lens**

Additional lighting equipment can be obtained for hire on request to the Technical Manager

## SOUND FACILITIES

- **MIXING DESK**                      **1 off Yamaha LS9 32 channel mixer**  
Please note that the LS9 can cater for all outboard features within the desk. Out board units listed below are available on request to the Technical Manager  
The mixer is located between/behind the middle of the last row in the house and can be moved to the Bio Box on request to the Technical Manager
- **L&R SPEAKERS**                      **2 off JBL VP7315/64DP**  
(Permanently rigged and patched)
- **CENTRE SPEAKER**                      **1 off JBL VP7210/95DP**  
(Permanently rigged and patched)
- **FLOOR MONITOR SPEAKERS**                      **4 off EONA ADRaudio M1225**
- **SUB SPEAKERS**                      **2 off EONA ADRaudio ATA 118**
- **FRONT FILL**                      **2 off EONA ADRaudio U61**
- **DIGITAL SIGNAL PROCESSOR**                      **1 off dbx Drive rack 4800**  
(4 in/8 out digital signal processor)
- **COMPRESSION**                      **1 off PreSonus ACP-88**  
(8 channel compressor/limiter)
- **EQUILISATION**                      **1 off Mackie QUAD EQ**  
(4 channel 30 band EQ limiter)
- **REVERB/EFFECTS**                      **1 off Lexicon MX300**  
(Dual stereo/surround effects)
- **PLAYBACK SOURCES**                      **1 off HHB CD 830 PLUS**  
(CD player/recorder)                      **1 off CD player**

## SOUND FACILITIES cont'

- MICROPHONES **10 off Dynamic Microphones**
- COMMUNICATIONS **Clearcom 4 channel Talkback System**  
**Leon Audio 14 channel Cue Light Station**
- INDUCTION LOOP HEARING IMPAIRED SYSTEM

Automated acoustic blankets are fitted to the walls of the auditorium and are available on request to the Technical Manager. Additional sound equipment can be obtained for hire on request to the Technical Manger.

**NOTE: The PreSonus ACP 88, Mackie Quad EQ and the Lexicon MX 300 are available on request and are not set as standard.**

**All effects, EQ and compression are featured onboard the LS9 mixer.**