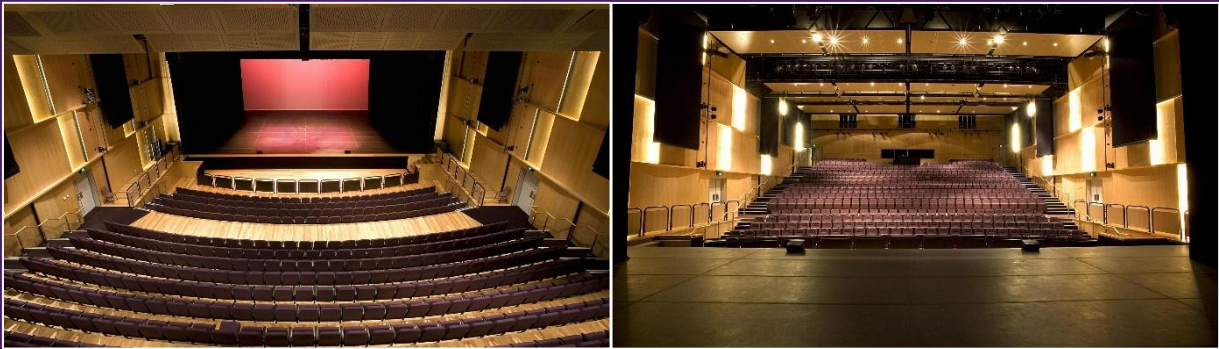


REDLAND PERFORMING ARTS CENTRE



CONCERT HALL TECHNICAL SPECIFICATIONS

RPACTechnical@redland.qld.gov.au



redland
performing arts centre

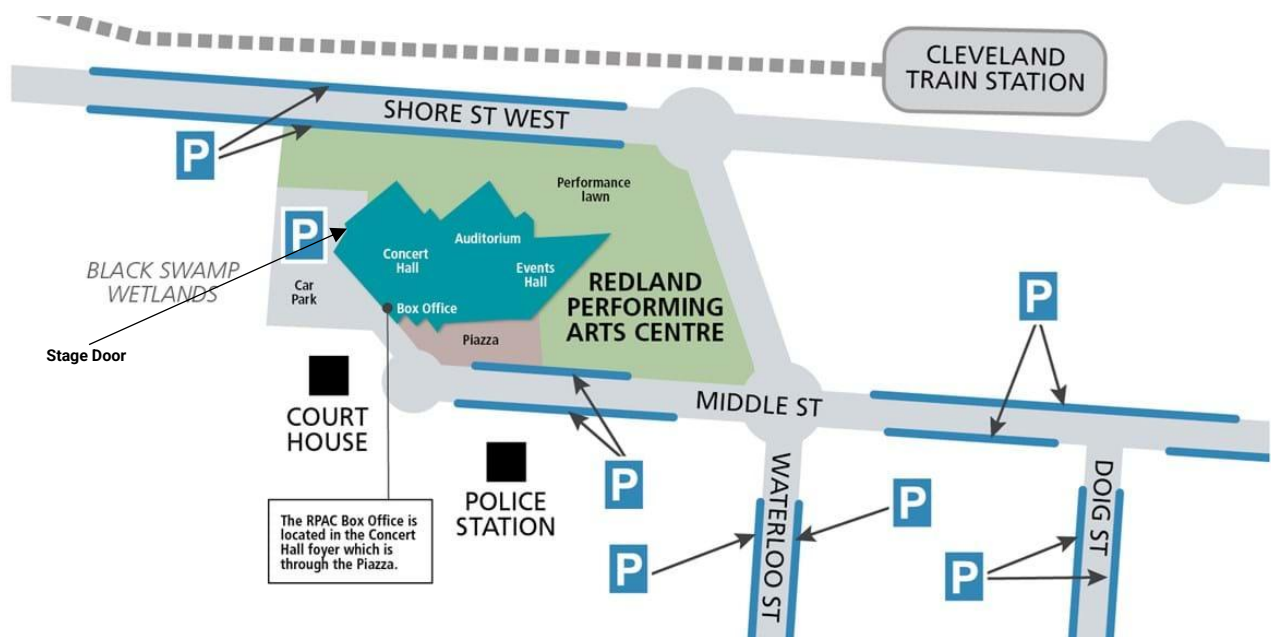
Yura! Welcome to Redland Performing Arts Centre (RPAC), a cultural meeting place located on the traditional lands of the Quandamooka people.

RPAC is a major initiative of Redland City Council and forms part of the rich cultural environment of Redlands Coast. RPAC is located 40 minutes away from Brisbane City.

We acknowledge the **Quandamooka People**, traditional owners of the lands, waters and seas we call Redlands Coast. We pay our respects to Elders, past, present and emerging, and recognise the traditional practices and ancient knowledge retained and retold through dance, song and art.

LOCATION

We are located at 2-16 Middle Street, Cleveland, opposite the Cleveland Police Station and Courthouse.



THE CONCERT HALL

The Concert Hall is architecturally designed to offer exceptional acoustics while also functioning as a multi-purpose venue catering to various kinds of productions. The Concert Hall is a theatre style space with built in raked seating to accommodate up to 550 seats. The venue can also be configured in a concert style mode.

THEATRE ACCESS AND LOADING DOCK

The Concert Hall can be accessed either via the parking lot stage door, the loading dock or through the Concert Hall foyer.

RPAC has two loading dock areas. For large trucks going to the Concert Hall, access to the dock is just past the courthouse but before the parking lot at the back of RPAC. For smaller vehicles, vans or trucks without a ramp or lift, access is through the parking lot and up the right side of the building to the end of the road.

Loading dock door: 3.2m wide x 4.6m high

Height from road to dock floor: 1.15m high

Stage loading door: 1.8m wide x 3m high

DISABILITY ACCESS

The theatre and stage is at foyer level and is accessible to anyone requiring special access. All entrances to RPAC, including those backstage, have ramp access. An elevator is located in the foyer which moves between all levels. A lift is also available which can move performers into and out of the orchestra pit.

VENUE SETUPS

THEATRE MODE

This is the default setup for the Concert Hall. It includes full masking (legs, borders, house curtain, false proscenium and a cyclorama).

Stage Width with Legs: 12.00m

Stage Depth to Setting Line: 10.00m

Full Stage Width US: 16.15m

Full Stage Width DS: 18.13m

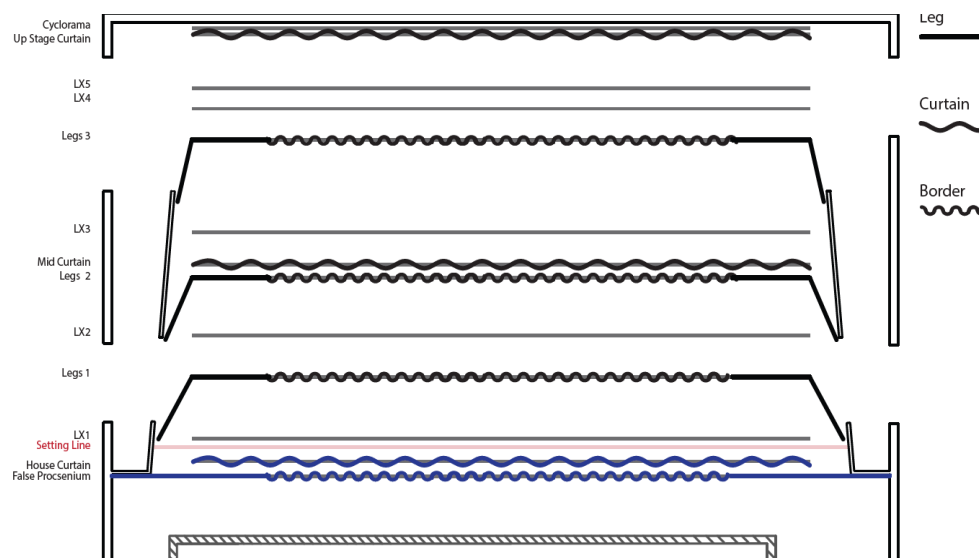
Full Stage Depth: 12.45m

Height from Seats to Stage: 1.10m

Height from Stage to Bottom of Border: 6.18m

Height from Stage to LX Bar: 7.35m

Height from Stage to Rigging Beam: 9.05m



If extra space is needed, the forestage can be brought up to stage level at the cost of max seating capacity.

Please contact the technical team for larger and more detailed plans.

VENUE SETUPS

CONCERT MODE

In this mode, all masking and the black weathertex floor is removed, revealing the Tasmanian oak acoustic walls. The orchestra pit is also brought up to stage level.

Stage Width US: 16.15m

Stage Width DS: 18.13m

Stage Width Pit: 13.47m

Stage Depth: 16.22m

Height from Seats to Stage: 1.10m

Height from Stage to LX Bar: 8.00m

Height from Stage to Rigging Beam: 9.05m

As concert mode is not the default configuration, setting up in this mode will incur an extra cost.

ACCOMODATING OTHER SETUPS

Depending on what is required, the Concert Hall can be configured in other ways not mentioned here. For example, the forestage could be elevated to stage level and seats placed onstage for a more intimate performance. Legs could be tied back to give extra room onstage for performances with large casts.

The Concert Hall is designed to be a flexible space and many other setups can be accommodated if required.

SEATING

Depending on the stage configuration, the Concert Hall can fit the following number of seats:

Permanent Seats: 509

Removable Seats in Pit/Apron: 41

Total Seats: 550

LIGHTING INFORMATION

LIGHTING FIXTURES

The following equipment comes as part of the Concert Hall's standard rig:

- Overhead LED rig including:
 - o Martin MAC Quantum Profile
 - o ProLights ECLFR2KTW LED Fresnel
 - o ProLights ECL CYC050 Unit
 - o LED X-Blinder 4
 - o ETC Source Four LED Series 3 25 – 50 Lustr X8
 - o ShowPro EK R3 Moving Wash Lights
- FOH Wash with specials including:
 - o ETC Source Four LED Series 3 15 – 30 Lustr X8
 - o Martin MAC Encore CLD
- Followspots
 - o RJ OX 600w LED follow spot
- Side Booms
 - o 3 x Booms on either side of the stage are setup at 3.25m tall and have 2x ETC Source 4WRD Colour II. Can be removed upon request
- Foot Lights
 - o Standard setup of 7 ProLights ECL CYC050 Units
- Floor Package – Consists of 3x rolling truss arches that are no more than .75m off the ground
 - o Martin Mac Quantum Profile
 - o ShowPro EK R3 Moving Wash Lights

The following are some additional fixtures and equipment that can be hired at an extra cost:

- 1x ATME MDG CO2 Hazer
- ETC 750w S4 Profile of varying sizes

RIGGING POINTS

The following permanently fixed points are available to hang fixtures:

- 4x Overhead LX bars (16m wide, 24x outlets each)
- 1x Overhead CYC bars (16m wide, 1x outlet)
- 1x Orchestra bar (16m wide, 24x outlets)
- 1x Lighting bridge (8m above center of auditorium, 20m wide, 20x outlets)

Any hanging outside of the RPAC standard bars will incur additional costs.

LIGHTING CONTROL

The following equipment comes as part of the Concert Hall's standard setup:

- 1x GrandMA3 Light
- LSC GenVI racks located around the venue
- sACN Nodes placed around venue.

The MA3 Light is setup inside the control room at the back of the auditorium but can be moved on request to onstage or the FOH position. iPads can be provided for remote control of the lighting console if needed.

GELS AND ACCESSORIES

If you are requiring gels for your performance, 6 week's notice is required. If you are requiring specific gel that is not stocked here at RPAC, this must be self-supplied.

Barn doors and gel holders are also available for most fixtures. Irises and gobo holders are available for profile style fixtures.

HOUSE LIGHTS

The Concert Hall house lights are controlled via a Dali 2 system. They can also be controlled via DMX though any lighting console.

LIGHTING PLAN

RPAC's lighting plan is available upon request from the Technical Manager.

AUDIO INFORMATION

SPEAKERS

The following equipment is part of the Concert Hall's standard setup:

- 12x D&B Yi8 loudspeakers for FOH PA
- 4x D&B Yi subwoofers for FOH PA
- 4x D&B 5S loudspeakers for Front Fill
- 4x D&B 12S loudspeakers for onstage flown side fill
- 4x D&B Max2 Foldback Wedges

AUDIO CONTROL

The following equipment comes as part of the Concert Hall's standard setup:

- 1x Yamaha DM7 FOH console
- 1x Yamaha QL1 IEM monitors console (only available with a monitor's operator)
- 3x Yamaha Rio3224-D2 (32in, 16out)
- 1x D&B 4 channel D20 Amplifier

iPads can be provided for mixer control.

STANDS and DI BOXES

There are a variety of microphone stands available including straight and boom stands.

Mono and Stereo DIs are available at a cost and dependent on availability.

ADDITIONAL EQUIPMENT

Additional equipment can be hired dependent on availability including D&B MAX2 foldback monitors, L'Acoustics 108P and 112P Loudspeakers and L'Acoustics SB15P Subwoofer.

MICROPHONES

A variety of wired and wireless microphones are available for hire, at an extra cost, dependent on availability. Microphone stock is equipped to accommodate full band or orchestra setups, local musicals, and smaller performances. Some brands on offer include: AKG, Beyer, DPA, Earthworks, Rode, Sennheiser and Shure

Please contact the Technical Management team for a full breakdown of this list.

SPEAKER PLAN

RPAC's speaker plan is available upon request from the Technical Services Manager.

VISION INFORMATION

PROJECTORS

The Concert Hall comes with a permanently fitted projector that can be hired at a cost.

Panasonic PT-RQ35K 4K Laser x 1

- Laser Projector
- 30k Lumens
- 3840 x 2160 (16:9) resolution
- Ultra-Short-Throw lens (0.397 : 1 ratio)
- Short-Throw Zoom Wide lens (0.693-0.913 : 1 ratio)

The 4K Laser projector comes equipped with a motorized lift:

To access the projector the venue is fit with an ultra lift prolift uni-custom motorized projector mount on a 3m dropper pole with a 4.5m lift height.

SURFACES

There are two main projection surfaces available at RPAC.

Cyclorama

- Standard at no cost
- Stretched white sheet on upstage wall
- At full size, the cyc is 16m x 8m, however, while considering the upstage curtain and borders in their standard position, the visible part of the cyc from the auditorium is 12.9m x 5.3m
- The upstage curtain can be brought in to shrink the visible portion of the screen to create a more desirable ratio

Electric cinema screen

- Available at cost
- Motorized screen mounted midstage
- Matt white with black border
- 300 inch 16:10 surface

SCREENS

For a portable option, some LCD TV screens are available at an extra cost, all of which are attached to a frame with wheels.

VISION SWITCHERS AND EXTENDERS

We have a BMD ATEM 2ME 4k UHD switcher and a BMD Advanced Panel 10. The Switcher is in the main VX/SX rack in Concert Hall Bio Box. The Surface sits on the Bio Box Desk. This can be moved upon request.

Several BMD 2210IP Fiber BiDis are available for use to extend SDI signals over a long distance.

There is a selection of SDI12G to HDMI converters as well as HDMI to SDI12G converters.

We have available some Decimator Design 12G CROSS.

VIDEO INFRASTRUCTURE

Fiber ports are located at convenient locations Side Stage. All signals go to a video rack in the control room.

PLAYBACK

2 X MacBook Pro M2 are available, at cost, to use with the following AV playback software:

- QLab 5 (Full version can be hired at an extra cost)

STAGING INFORMATION

STAGE FLOOR

The floors are a light Tasmanian oak wood which is exposed in Concert mode. In Theatre mode, a black matte weathertex flooring is laid on top of the oak. This flooring can also be placed over the forestage if it is at stage level.

MASKING

Concert mode leaves the Concert Hall stage fully exposed. Theatre mode contains the following masking:

- 1x False proscenium legs/border (Deep Purple - Velvet)
- 1x House curtain (Deep Purple - Velvet)
- 3x Borders (2m x 16m, black wool)
- 6x Legs (8m x 4m, black wool)
- 2x Tabs (8m x 9m, black wool)
- 1x Cyclorama (16m x 8m, white cloth)

Border and leg masking (legs 1 and border 1 for example) share the same bar and have an offstage return to mask OP and PS side stage.

MOTORISED FLYING AND RIGGING

The overhead stage bars are detailed below:

Weight limit: 400kg

Batten dimensions: 75 x 50 RHS

Batten length: 16m

Batten drift: 8m

There is no fly tower in the Concert Hall, instead there are 14, motorized bars fixed above stage.

The Concert Hall also has 4x box truss and 4x triangle truss for hire if required. A professional rigger must install the truss if it is being rigged. RPAC can organize this at an extra cost.

STAGE RISERS

The Concert Hall has 36 Quattro 1m x 2m risers which can be hired at an extra cost. They can be set with legs at many heights from 200mm to 1200mm. Skirts, treads and kick rails are also provided.

TABLES AND ROSTRA

1.2m trestle tables and 0.75m square tables are available if required. Tablecloths, if needed, can be hired at an extra cost.

A collection of rostra blocks and plinths in various shapes and sizes are also available.

SCREWING INTO THE FLOOR

If necessary, screws can be used in the weathertex floor as long as they are no longer than 10mm. Where possible, sandbags are preferred and can be provided by RPAC.

Under no circumstances can screws be put into the Tasmanian oak flooring or wall.

BACK OF HOUSE SYSTEMS AND FACILITIES

COMMUNICATION SYSTEMS

Talkback systems are available for use in all backstage areas of the Concert Hall. Several wired packs can be used and ports are located at all necessary areas on and offstage. Two wireless comms packs are also available which work reliably in most backstage areas.

PAGING SYSTEMS

A paging mic is located on the stage manager's desk, side stage on OP. It can be used to talk to all areas of back of house and to the dome room, where the follow spots are located.

AUDIO RELAY

All areas back of house are fitted with an audio relay. An atmos mic, located on the lighting bridge, feeds all audio from the stage to these rooms. Volume can be controlled via a dial located in each room, except for bathrooms, which are adjusted from the control room.

DRESSING ROOMS AND GREEN ROOM

The Concert Hall comes with two dressing rooms that can fit 15 people in each and one green room located backstage. All spaces are easily accessible to the stage and fitted with a stage feed monitor, audio relay and shared bathroom facilities. The green room also includes a kitchenette with mini fridge, zip boil tap and microwave. An additional dressing room or holding area space for up to 150 people can be allocated upon request, pending venue availability.

LAUNDRY FACILITIES

A washer and dryer are located between the two dressing rooms backstage and are available for use. An iron and ironing board are also available if required.

AIR CONDITIONING AND WI-FI

The stage, dressing rooms, green room and foyer are all air conditioned and fitted with on/off control switches. Temperature is controlled automatically venue wide. Wi-Fi is available, upon request, in most backstage areas. Onsite RPAC team will supply and assist with Wi-Fi connection.

SMOKING

RPAC is a non-smoking venue. Smoking can only take place in designated smoking areas, one of which is located down the stairs outside of stage door.

HEALTH & SAFETY

WORKING AT RPAC

As a requirement of using the space, anyone working at RPAC must adhere to safe work practices. A venue induction will be given to all visitors to RPAC before their performance commences which will explain the fire evacuation procedure and specific rules.

RISK ASSESSMENT

A risk assessment must be provided prior to arriving at RPAC. Failure to do so may cause a delay to any setup upon arrival.

TEST AND TAG

All electrical equipment being used must have an up-to-date test and tag. Any equipment that is not tagged will not be permitted to be used. Some staff at RPAC are trained to issue temporary tags. If they are available, this can be organized for a fee.

NOISE LEVELS

Noise during sound checks and performances are closely monitored. If levels exceed 110db, and sound is being operated by a non-RPAC technician, a warning will be provided. Failure to limit excess noise after this could result in a stopped performance.

FIRE RETARDANT

Any flammable set pieces must be fire retarded before arrival to the venue. Set pieces that have not been protected this way may not be allowed on stage.

ISOLATING VENUE

RPAC is equipped with a smoke detection system. Using any type of stage atmospherics will require the venue to be isolated. Isolation can be done at any time by the Duty Supervisor. If a visitor sets off the fire alarms as a result of using equipment before the venue is isolated, the accompanying fine will be passed on to them.

FIRST AID

All RPAC staff are first aid trained. First aid kits are located in the tech office backstage, under the stage management console and in the green room. If any items are used from these kits, the Duty Supervisor must be notified. An AED is mounted to a wall in the Concert Hall foyer.

ASSISTED HEARING SYSTEM

The Concert Hall is equipped with an infrared assistive hearing system. Hearing loops are provided to patrons who require them as they collect their tickets from the box office.