

# CONCERT HALL

Please confirm all critical measurements on site.

## STAGE FACILITIES

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- Concert Platform (open area)
- Reduced Concert Platform with Choir Retractable Seating
- Orchestra Pit Lift Platform
- Various modes available on request to the Events Manager

## PLATFORM DIMENSIONS

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• Height of platform level from auditorium floor	<b>884mm</b>
• Auditorium to platform access	<b>PS &amp; OP of platform (6 steps)</b>
• Depth from of main platform on centre line	<b>14.7m</b>
• Depth of platform including Orchestra Thrust on centre line	<b>20.5m</b>
• Platform width	<b>16.4m</b>
• Platform to underside of ceiling lighting pods	<b>17.3m</b>
• Platform to band hoist pickup at full drift	<b>16.7m</b>

## CHOIR RETRACTABLE SEATING

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• Choir Retractable seating accommodation	<b>182</b> <b>(7 rows of 26 seats)</b>
• Depth of Retractable seating fully extended	<b>7.3m</b>

## ACCESS

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• Crossover locations	<b>Dressing Room Corridor</b>
• Load-in door dimensions	<b>2.3m wide x 2.3m high</b>
• Assembly Areas (PS & OP)	<b>4.3m x 11.9m</b>

## FLYING SYSTEM

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• 400kg WLL Band type point hoists (max speed 8m/min)	<b>66</b>
• 500kg WLL Point hoists (4m/min) for centre and delay clusters (per each)	<b>2</b>
• 1000kg WLL Point hoists (4m/min) for left and right FOH speaker positions (per side)	<b>4</b>
• High speed wire winch on truss with 5 pickups to be supported by band hoists	<b>2</b>

Refer all rigging enquiries to the Manager Staging.

## ORCHESTRA PIT LIFT

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- The orchestra pit lift accommodates approx **60** musicians
- The pit lift is fitted with **150** removable seats in five rows

# LIGHTING FACILITIES

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## LIGHTING CONTROL (House)

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- GrandMA 2 Fullsize
- OnPC command wing available onstage
- Streaming ACN protocol utilized as standard connecting the 6 universes required for venue standard lighting package via fibre stacking network.
- 8192 parameters maximum
- 6432 parameters available
- 4096 Additional parameters available on request from lighting manager via NPU (additional cost will apply)

## LIGHTING CONTROL (Guest)

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- Uplink available from Guest console in streaming ACN, Artnet, DMX 5 into House network.
- 2 x Private Guest networks available via fibre from FOH audio position to side stage OP
- Additional ports/locations can be made available on request.
- House template show file or patch available for Partial Show Read on MA 2 platform upon request

## DIMMERS

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- 3KW, 12.5 amp dimMA Dimmers **504**
- All patching is one to one, dimmer to outlet

## FOLLOW SPOTS

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- Ushio Xebex 2kW Follow Spots **2**
- The follow spot room is above balcony level at the rear of the Auditorium.

## HOUSE LIGHTS

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- Crestron Control System linked to DMX streamer

## AUXILIARY POWER

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AV – 100A green power (MSPS) side stage, available for bolt on (10mm lugs) or Powerlock  
LX – Max 400A per phase Powerlock **OR** 3 x 40A 3 phase outlets (MSOP) side stage

### 3 phase

AV – 1 x 45A 3 phase outlet (DSPPS) side stage  
LX – 2 x 40A 3 phase outlets (USOP) side stage  
Penetrations through from Powerlock locations to choir balcony US PS and OP.

## LIGHTING EXTRAS

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A selection of stock gobos to fit the Robert Juliat and ETC lanterns are available on request  
Gobo images include:

- Small, medium, large break up
- Vertical, horizontal slats
- A selection of effects, breakups and various patterns/images on request to the Manager Lighting

Irises are installed in all profile fixtures throughout the lighting bays in the ceiling and Stage Slot positions. A range of additional lighting equipment is available for hire on request to the Manager Lighting.

## PLATFORM LIGHTING POSITIONS

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Twelve above ceiling lighting bays running across the auditorium. All locations listed below are permanently rigged and patched.

### Lighting Bay No:

FOH 8 (furthest from stage platform)	10 x Robert Juliat "ZEP 661SX" LED Profiles -11/26°
FOH 7	6 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 6 x ETC Source 4 LED – Series 2 Tungsten HD - 14°
FOH 6	6 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 6 x ETC Source 4 LED – Series 2 Tungsten HD - 14°
FOH 5	6 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26°
FOH 4	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 4 x ETC Source 4 LED – Series 2 Tungsten HD - 26°
FOH 3	4 x ETC Source 4 LED – Series 2 Tungsten HD - 26°
FOH 2	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 4 x ETC Source 4 LED – Series 2 Tungsten HD - 19°
FOH 1	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26°
BAY 1 (above Stage "Setting Line")	No instruments allocated
BAY 2	No instruments allocated
BAY 3	6 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 6 x ETC Source 4 LED – Series 2 Tungsten HD - 19°
BAY 4	6 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 6 x ETC Source 4 LED – Series 2 Tungsten HD - 19°
Organ Loft PS & OP each	1 x Robert Juliat "ZEP 663SX" LED Profiles – 28/54° 2 x ETC Source 4 LED – Series 2 Tungsten HD - 19°
Trumpeters' Slots PS & OP each	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26°
Trumpeters' Balcony PS & OP each	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 4 x ShowPro LED Fusion PAR - 24° 2 x Selecon 2K Fresnel
Trumpeters' Lower Balcony Bars PS & OP each	2 x ETC Source 4 LED – Series 2 Tungsten HD - 26° 2 x ETC Source 4 LED – Series 2 Tungsten HD - 19°
Side Lighting Slots: Downstage PS & OP each (top to bottom)	4 x Robert Juliat "ZEP 661SX" LED Profiles – 11/26° 6 x Source 4 575W HPL Profile - 26° 3 x Source 4 575W Profile - 26° & 4 x ShowPro LED Fusion PAR - 24° 4 x Source 4 HPL 575W Profile - 26°

**Midstage PS & OP each (top to bottom)**    **2 x Robert Juliat “ZEP 663SX” LED Profiles – 28/54°**  
**2 x Robert Juliat “ZEP 661SX” LED Profiles – 11/26°**  
**6 x Source 4 HPL 575W Profile - 26°**  
**3 x Source 4 575W Profile - 26° & 4 x ShowPro LED Fusion PAR - 24°**  
**4 x Source 4 HPL 575W Profile - 26°**

**Upstage PS & OP each**    **2 x Robert Juliat “ZEP 663SX” LED Profiles – 28/54°**  
**2 x Robert Juliat “ZEP 661SX” LED Profiles – 11/26°**  
**2 x ETC Source 4 LED – Series 2 Tungsten HD - 14°**  
**2 x ETC Source 4 LED – Series 2 Tungsten HD - 19°**  
**2 x ETC Source 4 LED – Series 2 Tungsten HD - 26°**  
**3 x Source 4 HPL 575W Profile - 26° & 4 x ShowPro LED Fusion PAR - 24°**  
**2 x Source 4 HPL 575W Profile – 26°**  
**2 x Selecon Pacific Zoom 1Kw Profile – 23/50°**

**Circle Rail**    **8 x ETC Source 4 750W 19**  
**1 x 650w Selecon Fresnel**  
**6 x 2K Selecon PC’s**  
**2 x Source 4 HPL 575W Profile – 5°**

**Concert Platform Downlights**    **70 x 575w Source 4 Par**  
**Stage**    **8 x 1K Iris 4 Cyc Units**  
**10 x 1K Orion 4 Cyc Units**

**Worklights**    **8 x LED High bay Floods**

## SOUND FACILITIES

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- Mixing Desk (Located in the Rear Stalls) **1 x Digico SD5 CS 132 channel  
56 input (32 bit Stadius) SD Rack  
Optocore Fibre Network**
- L&R PA System – per side **12 x L'Acoustics Kara Line Array Elements  
8 x L'Acoustics SB18 Subwoofers (flown)**
- Choir Seats PS, OP and Centre (Permanently rigged and patched) **10 x L'Acoustics 108P**
- Front Fill Speakers **4 x L'Acoustics Kiva**
- Foldback Speakers **4 x L'Acoustics 108P  
4 x Martin LE1200**
- Routing and Equalisation **3 x Lake LM26**
- Effects **Waves Soundgrid Extreme Server**
- Playback Sources **1 x Denon C630 Compact Disc Player**
- Microphones **8 x Dynamic Microphones**
- Communications **Clearcom Helixnet Talkback System**
- Video Monitoring **Leon Audio 12 Channel Cue Light System  
Stage View  
Conductor View**
- Infra-red Audio Description/Hearing Impaired system **2 Channels**

Hifax microphone hoists available for use on request to the Manager Audio/Visual.

Additional acoustic treatment is available on request to the Manager Audio/Visual.

Additional equipment is available for hire on request to the Manager Audio/Visual.

## MUSICAL INSTRUMENTS

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The Klais Grand Organ, a selection of pianos including Steinway D Concert Grand pianos, Kawai Grand pianos of varying sizes and a Hubbard and Broekman Harpsichord are available on request.

All Pianos and Harpsichord are tuned to concert pitch A440.

The Grand Organ is tuned to A442.

All instruments are tuned by QPAC approved tuners to client requirements.

All requirements for the musical instruments are to be directed to the Events Manager.