



CONCERT HALL – TECHNICAL SPECIFICATIONS

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STAGE FACILITIES

The Concert Hall is an open platform area with a blond timber finish. The Platform area can be reduced with Retractable Choir Seating. There is an Orchestra Pit Lift Platform.

Various modes are available on request to the Events Manager.

PLATFORM DIMENSIONS

• Height of platform level from auditorium floor	884mm
• Auditorium to platform access	PS and OP of platform (6 steps)
• Depth from apron to rear wall on Centre Line	14.7m
• Depth of platform from Orchestra Pit leading edge to rear wall	20.5m
• Platform width	16.4m
• Platform to underside of ceiling lighting bays	17.3m
• Platform to band hoist pickup at full drift	16.7m

CHOIR RETRACTABLE SEATING

• Choir Retractable Seating accommodation	182 (7 rows of 26 seats)
• Depth of Retractable Seating fully extended	7.3m

ORCHESTRA PIT LIFT

The Orchestra Pit lift can accommodate approximately **60** musicians.

The pit lift is fitted with **150** removeable seats in five rows.

ACCESS

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

FLYING SYSTEM

• 400kg WLL band-type point hoists	66
• 500kg WLL point hoists for centre and delay clusters	2
• 1000kg WLL point hoists for left and right FOH speaker positions (per side)	4
• High speed wire winch on truss with 5 pickups to be supported by band hoists. Available with prior arrangement. Charges will apply.	2

Side walls of the platform can be acoustically treated with black panelling upon request.

Refer all rigging enquiries to the Manager Staging.

Please confirm all critical measurements on site.

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LIGHTING FACILITIES

LIGHTING CONTROL DESK (HOUSE)

- GrandMA 3 Fullsize Primary Console.
- GrandMA 2 OnPC with Command Wing Secondary Console onstage.
- sACN protocol utilized as standard, connecting the 6 universes required for venue standard lighting package, distributed around the venue by a fibre spanning tree network.
- 12288 parameters available.
- 6432 additional parameters available with MA onPC links.
- 4096 additional parameters available via NPU on request from Lighting Manager (additional cost will apply).

LIGHTING CONTROL DESK (GUEST)

- Uplink available from Guest console via sACN, Artnet and DMX in house network.
- Multicast input or remote input to GrandMA available.
- Isolated Guest Network available via VLAN joining Control Room, Side Stage OP, Basement and Roof.
- Additional ports/locations can be made available upon request.
- House template show file or patch for Partial Show Read on MA 2 platform available upon request.

DIMMERS

- 3KW, 12.5A dimMA Dimmers. 504 circuits total.
- All field patch outlets are wired direct to dimmers.
- 8x 10A LSC TEKO6 12 Ch, providing alternate source for roof equipment and socapex runs for truss installation.

AUXILIARY POWER

- 100A Powerlock MSPS side stage.
- 400A Powerlock OR 3x 40A 3-phase outlets MSOP side stage.
- 2x 40A 3-phase outlets MSPS side stage (AV Green Power).
- 2x 40A 3-phase outlets USOP side stage.
- Penetrations through from side stage assembly to choir balcony US PS and OP.

FOLLOW SPOTS

- 2x Ushio Xebex 2KW Follow Spots.
- The Follow Spot room is above the balcony level at the rear of the Auditorium.

HOUSE LIGHTS

- Crestron Control Panel System linked to Pharos DMX streamer.
- Control can be taken by sACN input as LTP through a Luminode-12 DMX Node.

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LIGHTING EXTRAS

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

- Small, medium and large breakup
- Vertical and horizontal slats
- Cone, square and star effects

A selection of effects, breakups and various patterns/images are available on request to the Manager Lighting.

Irises are installed in all profile fixtures throughout the lighting bays in the ceiling, and in the stage slot positions.

A range of additional lighting equipment and accessories are available for hire on request to the Manager Lighting.

ALLOCATED LIGHTING INSTRUMENTS

All locations listed below are permanently rigged and patched. As overheads are on droppers, they are not to be re-positioned or substituted.

OVERHEAD

Back of Auditorium	
• Bay 1	10x Robert Juliat "ZEP 661SX" LED Profile – 11/26°
• Bay 2	6x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x ETC Source Four Series 2 Tungsten HD LED Profile – 14°
• Bay 3	6x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x ETC Source Four Series 2 Tungsten HD LED Profile – 14°
• Bay 4	6x Robert Juliat "ZEP 661SX" LED Profile – 11/26°
• Bay 5	4x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 4x ETC Source Four Series 2 Tungsten HD LED Profile – 26°
• Bay 6	4x ETC Source Four Series 2 Tungsten HD LED Profile – 26°
• Bay 7	4x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 4x ETC Source Four Series 2 Tungsten HD LED Profile – 19°
• Bay 8	4x Robert Juliat "ZEP 661SX" LED Profile – 11/26°
Above Platform Setting Line	
• Bay 9	No Instruments Allocated
• Bay 10	No Instruments Allocated
• Bay 11	6x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x ETC Source Four Series 2 Tungsten HD LED Profile – 19°
• Bay 12	6x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x ETC Source Four Series 2 Tungsten HD LED Profile – 19°
• Organ Loft (PS and OP each)	2x (1ea) Robert Juliat "ZEP 663SX" LED Profile – 28/54° 4x (2ea) ETC Source Four Series 2 Tungsten HD LED Profile – 19°
Up Stage	

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TRUMPETERS'

• Slots (PS and OP each)	8x (4ea) Robert Juliat "ZEP 661SX" LED Profile – 11/26°
• Balcony High (PS and OP each)	8x (4ea) Robert Juliat "ZEP 661SX" LED Profile – 11/26° 4x (2ea) ETC Source Four Series 2 Tungsten HD LED Profile – 19° 4x (2ea) ETC Source Four Series 2 Tungsten HD LED Profile – 26°
• Balcony Mid (PS and OP each)	8x (4ea) Showpro LED Fusion HEX Par XII – 24° 4x (2ea) Selecon Arena 2K Fresnel
• Balcony Low (PS and OP each)	4x (2ea) ETC Source Four 750W Profile – 19° 4x (2ea) ETC Source Four 750W Profile – 26° 2x (1ea) ETC Source Four 575W Profile – 19°

SIDE LIGHTING SLOTS

• Downstage (PS and OP each) <i>Top to Bottom</i>	8x (4ea) Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x (3ea) Showpro LED Fusion HEX Par XII – 24° 18x (9ea) Selecon Pacific Zoomspot 1KW – 12/28° 4x (2ea) Selecon Pacific Zoomspot 1KW – 14/35°
• Midstage (PS and OP each) <i>Top to Bottom</i>	8x (4ea) Robert Juliat "ZEP 661SX" LED Profile – 11/26° 6x (3ea) Showpro LED Fusion HEX Par XII – 24° 18x (9ea) Selecon Pacific Zoomspot 1KW – 12/28° 4x (2ea) Selecon Pacific Zoomspot 1KW – 14/35°
• Upstage (PS and OP each) <i>Top to Bottom</i>	8x (4ea) Robert Juliat "ZEP 663SX" LED Profile – 28/54° 4x (2ea) ETC Source Four Series 2 Tungsten HD LED Profile – 14° 4x (2ea) Showpro LED Fusion HEX Par XII – 24° 10x (5ea) Selecon Pacific Zoomspot 1KW – 12/28° 8x (4ea) Selecon Pacific Zoomspot 1KW – 23/50°

CIRCLE RAIL

• Balcony One	2x Robert Juliat "ZEP 661SX" LED Profile – 11/26° 2x ETC Source Four 750W Profile – 5° 8x ETC Source Four 750W Profile – 19° 1x 650W Selecon Fresnel 6x 2000W Selecon PC
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ORCHESTRAL DOWNLIGHTS

• Bays 5 through 12	64x ETC Source Four Par
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FLOOR PACKAGE – AVAILABLE FOR HIRE UPON REQUEST

• Stage	8x Showpro LED Fusion HEX Par XII – 24°
• OP Slot Level 1	1x MDG ATMe Hazer

WALL / ROOF LIGHTING

- LED strip wash covering the Slot fascia and Auditorium walls available in RGB.
- Showpro EX36 floods covering Klais Organ and Roof available in RGBW.

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TOTAL ALLOCATION COUNTS

<ul style="list-style-type: none"> Venue Allocation 	<p>86x Robert Juliat “ZEP 661SX” LED Profile – 11/26°</p> <p>10x Robert Juliat “ZEP 663SX” LED Profile – 28/54°</p> <p>16x ETC Source Four Series 2 Tungsten HD LED Profile – 14°</p> <p>24x ETC Source Four Series 2 Tungsten HD LED Profile – 19°</p> <p>12x ETC Source Four Series 2 Tungsten HD LED Profile – 26°</p> <p>24x Showpro LED Fusion HEX Par XII – 24°</p> <p>2x ETC Source Four 575W Profile – 19°</p> <p>2x ETC Source Four 750W Profile – 5°</p> <p>12x ETC Source Four 750W Profile – 19°</p> <p>4x ETC Source Four 750W Profile – 26°</p> <p>64x ETC Source Four Par</p> <p>46x Selecon Pacific Zoomspot 1KW – 12/28°</p> <p>16x Selecon Pacific Zoomspot 1KW – 14/35°</p> <p>4x Selecon Pacific Zoomspot 1KW – 23/50°</p> <p>1x 650W Selecon Fresnel</p> <p>4x Selecon Arena 2K Fresnel</p> <p>6x 2000W Selecon PC</p>
<ul style="list-style-type: none"> Hire Upon Request 	<p>8x Showpro LED Fusion HEX Par XII – 24°</p> <p>1x MDG ATMe Hazer</p>

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SOUND FACILITIES

<ul style="list-style-type: none">Mixing Console (Located in the Rear Stalls)	1x Digico SD5 CS 132 Channel Digico 32bit SD Rack 56/24 Optocore Fibre Network
<ul style="list-style-type: none">L&R Speakers (PS and OP each)	24x (12ea) L-Acoustics Kara II Line Array Element 8 x (4ea) L-Acoustics SB18 Subwoofer 2 x L-Acoustics KS28 optional
<ul style="list-style-type: none">Choir Seats PS, Centre and OP (permanently rigged and patched)	10 x Meyer UPM1p
<ul style="list-style-type: none">Front Fill Speakers	4x L-Acoustics Kiva
<ul style="list-style-type: none">Foldback	4x L-Acoustics 108P 4x Martin LE1200 Up to 16 available + 4 x LE1500 Digico SD12/96 monitor console
<ul style="list-style-type: none">Routing and Equalisation	Direct Out Prodigy MP
<ul style="list-style-type: none">Effects	Waves Soundgrid Extreme Server
<ul style="list-style-type: none">Playback Sources	Qlab, Spotify, etc
<ul style="list-style-type: none">Microphones	8x Dynamic Microphones
<ul style="list-style-type: none">Communications	Clearcom Helixnet Talkback System Clearcom Freespeak II radio comms
<ul style="list-style-type: none">Video Monitoring	Stage View Conductor View
<ul style="list-style-type: none">ListenTech FM Audio Description / Hearing Impaired System	2 Channels

Hifax microphone hoists are 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.

Further details can be obtained upon application.

MUSICAL INSTRUMENTS

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.

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