

Technical Specifications
Elisabeth Murdoch Hall



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Venue Information

Elisabeth Murdoch Hall is a modified shoebox shaped hall based on the classic proportions of the Vienna Musikvereinsaal. The hall has been specifically designed and built for the performance of acoustic music, but is also suitable for ensembles requiring amplification and corporate conferencing. The auditorium has a raked stalls level and a rear raked circle with split side balconies.

This document provides details of the services and equipment available from the Melbourne Recital Centre for the Elisabeth Murdoch Hall. Please refer to your contract for details of included services and equipment. Any services and equipment not included in your hire agreement will incur an additional charge.

Any additional equipment required but not specified in this document can be hired in through the Melbourne Recital Centre's preferred suppliers.

Please note that information provided in this document is subject to change. The Melbourne Recital Centre is happy to provide production advice specific to your requirements at any point in order to help facilitate production planning.

Auditorium Seating Capacity

The EMH auditorium consists of two levels of tiered seating: stalls and circle.

Total: 1000 seats
Stalls: 712 seats
Circle: 288 seats

Seats may be removed to allow for wheelchair positions on both levels and wider seats with articulated arm rests are located in the side balconies.

Utilising the stage extension/orchestra pit necessitates the removal of 95 seats at the front of the stalls.

Utilising the FOH sound desk necessitates the removal of 12 seats at the rear of the stalls. Up to 37 seats can be removed to accommodate additional Presenter equipment if necessary.

Stage

The EMH stage is an open concert platform (it does not have a safety curtain).

Stage Surface

Rake:	None
Material:	Compressed bamboo
Stage distributed load limit:	6 tonne
Stage point load limit:	10 tonne over 1 metre ²

Notes:

The use of tape on the stage is restricted to electrical, gaffer, NEC and cloth spike tapes. Nashua tape is NOT permitted.

It is not permitted to drill into or paint the stage floor.

It may be possible to lay a floor covering, but this is at the discretion of the venue.

Any damage to the stage surface or walls during tenancy shall be the responsibility of the Presenter.

Stage Dimensions

Downstage width: 17m

Upstage width: 14m

Depth: 9m

Total stage area: 135m²

Distance from stage to lowest underside of ceiling: 3.5m.

Height from front of stalls auditorium floor to stage level: 0.985m

Forestage Lift

The EMH is equipped with a forestage lift which allows for the bumping in of large items from the dock / sub stage level such as scenery or large quantities of production equipment. The lift can be used in a number of positions to act either as a stage extension or an orchestra pit. Its standard position is at stalls level where it forms the first three rows of audience seating.

Please note that any and all hoisting, lifting and motorised equipment installed within the MRC may only be operated by MRC staff.

The lift is designed to support a static load of 7.5kPa UDL to a total limit of 10,000Kg. A portion of the lift platform area has been reinforced to carry heavy lifting equipment. In this area the working load limit is 6,000Kg. The lifting capacity of the forestage platform is also 6,000Kg and the nominal speed of the lift is 2m/min.

Stage Extension

Using the forestage lift, the stage can be extended by 3m to give a total stage depth of 12m.

Total extended stage area: 186m²

The following seats must be removed to permit use of the stage extension: AA 1 – 31, BB 1 – 31 and CC 1 – 33, a total of 95 seats.

Orchestra Pit

An orchestra pit of 16.5m width and 4m depth may be created by lowering the forestage lift to orchestra level.

Total orchestra pit area: 66m²

The following seats must be removed to permit use of the stage extension: AA 1 – 31, BB 1 – 31 and CC 1 – 33, a total of 95 seats.

Please note the stage extension and orchestra pit cannot be used in conjunction.

Staging plans are available upon request.

Stage Management Facilities

Console

Custom console may be positioned in OP or PS corner. MRC's standard position is OP.

Stage Relay Monitors

PS and OP corner: 2 x 8" LCD monitor (SM Console)

Backstage PS and OP: 2 x 32" LCD monitors

Communications

Talkback: Clear-Com Talkback Master System – wired and wireless comms packs are available

Cue Light: Leon Audio Cue Light System

Paging: Full Backstage and Foyer paging available with zoning

Flying Facilities

The EMH has three backing battens located two thirds of the way upstage. Each batten is approximately one third the width of the stage. These battens are unsuitable for flying objects during performance and fly independently of each other. Each batten is raised and lowered by a Jands H250P – V-2 wire motorised pile winding hoist and has a lifting capacity of 250Kg. The maximum point load is 100Kg.

Drapery

The following drapes are available:

Drape	Quantity	Width (m)	Height (m)	Colour	Material
Rostra skirts	20 flat	1000mm	100mm	Black	Wool with Velcro
Megadeck skirts	2 pleated	7200mm	450mm	Black	Velveteen with Velcro
Masking flats	4	2600mm	2000mm	Black	Moulton (for wing use)
Masking flats	2	2600mm	2000mm	Black	Wool (stage use)

Smother	1 flat	13000mm	4300mm	Black	Wool with ties
Side tab	2 flat	6600mm	4300mm	Black	Wool with ties
Border	2 flat	5200mm	1400mm	Black	Wool with ties

Carpet

Carpet	Quantity	Length (m)	Width (m)	Colour	Material
Forestage (only required for stage extension)	1	17000mm	2950mm	Black	w/ velcro
Downstage	1	17000m	3700m	Black	w/ velcro
Midstage	1	15000m	3700mm	Black	w/ velcro
Upstage	1	14000m	750mm	Black	w/ velcro
Drum carpet	1	2400mm	1800mm	Black	Wool

Tarkett

Tarkett	Quantity	Length (m)	Width (m)	Colour	Material/ brand
Forestage D.S. (piece 1 - only required for stage extension)	1	15000mm	900mm	Black	<i>Tarkett</i>
Forestage U.S. (piece 2 - only required for stage extension)	1	15000mm	2000mm	Black	<i>Tarkett</i>
Stage (piece 3)	1	15000mm	2000mm	Black	<i>Tarkett</i>
Offstage (piece 3)	2	Custom	2000mm	Black	<i>Tarkett</i>
Stage (piece 4)	1	15000mm	2000mm	Black	<i>Tarkett</i>
Offstage (piece 4)	2	Custom	2000mm	Black	<i>Tarkett</i>
Stage (piece 5)	1	14000mm	2000mm	Black	<i>Tarkett</i>
Stage (piece 6)	1	13000mm	2000mm	Black	<i>Tarkett</i>
Stage (piece 7)	1	12000mm	2000mm	Black	<i>Tarkett</i>

MRC uses the following tape with its tarkett:

- Norton Black 48mm duct tape – over tape
- Tenacious Matte Black 48mm duct tape – edge tape

A 'Tarkett & Carpet layout' PDF of EMH stage can be made available upon request.

Stage and Orchestral Equipment

Item	Quantity
Wire music stands	6
Wooden music stands	43
Sconce lights	60
Conductor's podium	1
Conductor's music stand	1
Orchestral chairs	61
Bass stools	5
Steinway piano stool	2
Standard piano stool	2
Cello boards	17
Lecterns	2
Single padded chairs	9

Production and Function Furniture

Item	Quantity	Dimensions
Trestle tables	15	L: 1820mm W: 760mm H: 740mm
Round tables	10	D: 1800mm H: 750mm
Production tables	2	L: 2000mm W: 1000mm
Caterer trestle tables	5	L: 1800mm W: 750mm H: 900mm
High bar tables	13	D: 600mm H: 1090mm

Rostra

Type	Quantity	Dimensions	Leg heights available				
Cello box	2	L: 1500mm W: 900mm H: 185mm	N/A				
Conductor podium	1	L: 1000mm W: 1000mm H: 185mm	N/A				
Showtrek - rostra	20	L: 2000mm W: 1000mm H: 120mm	30 @ 200mm	56 @ 400mm	32 @ 600mm	28 @ 800mm	21 @ 1000mm
Showtrek - rostra wedges	8	L/W: Various H: 120mm	as above				
Showtrek	6	H: 400mm					

- rostra treads	6 4	H: 600mm H: 800mm	N/A			
Megadeck - ¾ deck	14	L: 1800mm W: 1200mm H: 200mm	24 @ 200mm	56 @ 450mm	34 @ 600mm	
Lectern riser	2	L: 1200mm W: 1200mm H: 200mm	as above			
Megadeck - treads	2 1	H: 450mm H: 600mm	N/A			
Locking wheel	12	For rolling deck	N/A			

Lighting

The Elisabeth Murdoch Hall lighting rig is divided into two categories:

Fixed Rig

The fixed rig has been designed to suit ensembles of varying sizes and configurations that require open-white down-light. Please note that these lamps may not be removed, repositioned, refocused or gelled without prior discussion with your Concert & Event Coordinator.

Included in this standard rig are six re-focusable front light specials and four re-focusable back light specials. The back light specials are hung on Apollo Right Arm Automated yolk fixtures which allow the lighting operator to reposition the fixture from the lighting desk without stage access. The Right Arm units are silent when not in motion, technical specifications upon request as are lighting plans and elevations.

The standard rig may also include a choice of up to three colour washes that can be used around the periphery of the performance area.

Flexible Rig

The flexible rig can provide additional specials and colour washes if required. This include the use of 26 x Wybron coloram IT scrollers which house a 24 frame scroll. Colour string information can be made available upon request.

The MRC also owns 6 x Martin TW1 wash light moving head fixtures which are useful for productions that require colour mixing and where the blocking or the stage layout has not been finalised. The use of these fixtures is encouraged in such situations to minimise the need for stage access by technicians during production time. Each unit is hired individually according to each show's requirements. Technical specifications can be made available upon request.

Onstage view

The EMH has four wired lighting bars. The lifting capacity of each of these bars is 500Kg. The maximum point load permitted is 100Kg from the underhung aluminium pipe batten. Each of the over stage lighting bars is attached to two spring retracted cable reelers. Each cable reeler carries ten 10A circuits and two 20A circuits.

Each over head bar has:

- 14 x 10A dimmable single circuits
- 4 x 10A dimmable paired circuits
- 2 x 20A dimmable paired circuits
- 2 x 16A switched relay paired circuits.

Circuit plans are available upon application.

A multi pin socket is located at the upstage end of each side bar, these go to fan outs to supply the side bars with:

- 5 x 10A dimmable single circuits
- 1 x 20A dimmable single circuit
- 1 x 16A switched relay circuit.

If required these tails can be jumped across and used as supply to Bar 5, a removable, multipurpose bar positioned just downstage of the rear stage wall.

Chain hoists

For the purposes of touring rigs the EMH has sixteen touring rig penetration points which allow for the rigging of truss from chain hoists. These are distributed in four rows of four starting near LX1 lighting bar position and proceeding on stage to just up stage of LX4 position.

The MRC owns four ASM OTTO 1000B BGV-C1 1Tonne chain hoists. These are permanently rigged in the standard forestage position. They do, however, have an optional secondary position. Both positions are marked on the touring rig lighting plan, which can be made available upon request.

Any truss hanging required for third or fourth positions will need additional hoists and I-beam clamps to secure in position. Please note that any plans for utilising any hoists must be signed off and supervised by MRC technicians.

There are a number of 40Amp three phase outlets in the roof cavity to service flown touring truss. Cables may be dropped with the chain pickups.

For additional floor dimming there is touring power in the sub stage area with cut throughs for cable runs to the upstage corners of the stage or wings.

Power plans are available upon request however it is highly advised that a site visit is also undertaken before bump in.

Lighting Fixtures and accessories included in basic fixed rig

Quantity	Fixture type / accessory	Position / use
48	Source Four PAR	Colour wash x 2
48	Barn doors to fit Source 4 Par	
12	Source Four 15/30° zoom	
28	Selecon Arena 2K PC	Open white down wash
28	Barn door to fit Selecon Arena 2K PC	
4	Source Four 36°	Re-focusable special back light
4	Apollo right arm automated yolk fixture	Re-focusable special back light
4	Apollo DMX controlled iris unit to fit Source Four fixed lens	Re-focusable special back light
6	Source Four 5°	
6	Source Four 10°	Re-focusable special front light
20	Source Four 14°	Front light
8	Source Four 19°	
4	Source Four 26°	
8	Selecon Rama 1.2K Fresnel	Side light fill-ins
6	WDMX transreceiver	
4	Wybron 150 PSU (six way units)	One per overhead bar

All units are fitted with appropriate safety wires. Available accessories include A and B size gobo holders and glass gobo holders to fit Source Fours. All PC, PAR and Fresnel units have barn doors. Irises to fit Source Fours are also available upon request.

The MRC also has some floating lighting fixture stock. If additional lighting is required please request a copy of our list of floating stock and discuss the show's requirements with your assigned Concert & Event Coordinator.

Dimming and DMX

The MRC runs ETC matrix MK II sine wave digital dimmers to provide performance lighting control to the EMH:

- 168 ways sine wave dimming (3KW) rated at 10A
- 30 ways sine wave dimming (5KW) rated at 20A
- 18 ways remote control switched rated at 16A

A DMX 512 network with isolating splitter amplifiers and active DMX points are provided throughout the venue. Patch points are located upstage and downstage, in the wings on PS and OP, stage centre, the upper back wall on both PS and OP, the stage floor traps, on all bridges and box booms, in the orchestra pit and sub stage area, as well as standard production operating positions.

Each DMX input is wired directly back to the Level 3 bio box via two x 2pr data cables where upon DMX outputs from the bio box patch are run as spur circuits servicing a number of DMX active isolated outputs. Cabling to these spurs is via two cables, offering a total of three DMX universes and a power supply for the active isolating splitter units.

A total of seven output spur circuits are provided for 28 LSC isoport series 3 isolating active DMX output panels.

An eighth output spur is dedicated to a wireless DMX transmitter which services the four wired lighting bars in the auditorium and (additional as needed upon request).

In addition to the DMX network a dedicated Theatre Equipment Technical Data Network is installed. This network consists of 72 Ethercon style RJ45 connectors, wired in CAT6 Ethernet cabling to an Ethernet patch in the bio box.

This network provides for future lighting infrastructure systems based on Ethernet rather than DMX control infrastructure.

Console

The EMH has an ETC EOS 4000 channel lighting console with remote processing unit, radio focus remote and back up wing. Its standard position is in the Level 3 bio box. Technical specifications are available on request.

Please request any lighting technical specifications, including lighting plans, from your Concert & Event Coordinator.

Audio

A full audio setup can be provided for Presenters wanting to present an amplified concert, including utilising both a Front of House audio console and a side of stage monitors console. MRC have in-house engineers able to provide a complete setup and operation of these events.

Please note that any amplified concert in the EMH will be required to use MRC's public address system only. Under no circumstances will any external PA be permitted to be used in the EMH by MRC, and this is a condition of entering into a contract with MRC. MRC's PA has been specifically selected for the EMH, and is specifically tuned and time-aligned to create the optimum amplification for our venue and your concert. If you wish to utilise additional external equipment, this may be permitted at the discretion of MRC. Please discuss details of your audio requirements with MRC at your earliest convenience.

Speaker system

Position	Equipment
L & R Arrays	8X d&b Audiotechnik T-10 Per side
Centre array	8X d&b Audiotechnik + 2X d&b Audiotechnik T-10 in Pont source mode as balcony fill
Front Fill	6X d&b Audiotechnik E0
Infill	2X d&b Audiotechnik T-10 in Pont source mode placed on subs
Subs	2X d&b Audiotechnik B-4 SUB placed on stage

Control

The following equipment is available in the Level 3 control booth:

Yamaha LS-9 Digital Mixing Desk
BSS Soundweb London Processing
TC M3000 Studio Reverb Processor
Lexicon MPX-1 Effects Unit
Tascam CD-01U PRO CD Player
Tascam CD-RW900SL CD Recorder

The following equipment is available for the Stalls mix position:

Digico D5 Mixing Desk
SSL XLogic Alpha-Link MADI-SX 24 Input/24 Output Rack
BSS Soundweb London Processing
TC M3000 Studio Reverb Processor
Lexicon MPX-1 Effects Unit
Tascam CD-01U PRO CD Player x 2

The following equipment is available for the side of stage monitors mix position:

Digico SD-8 Mixing Desk

Microphones

Type	Quantity
AKG C 414B Multi-pattern Condenser Mic	4
Audio Technica AT4050 Multi-pattern Condenser Microphone	4
Audix D4	6
Audix TR40A Reference Microphone	2
Beyer M88	1
DPA 4006-TL Versatile Omnidirectional Microphone	2
DPA 4023 Versatile Cardioid Compact Microphone	10
DPA 4027 Wide Cardioid Compact Microphone	4
DPA 4051 Omnidirectional Compact Microphone	4
DPA 4066 Omnidirectional Headband (Beige)	4
DPA 4066 Omnidirectional Headband (Black)	4
DPA 4067 Miniature Omnidirectional Mic with kit (Beige)	4
DPA Compact Active Pole for 4023	8
DPA Flamingo Grand Twin Double Pole for 4023	4
DPA IMK 4066 Instrument with kit (Black)	4
Neuman KM105	6
Neuman KM184	8
Neuman U89	2

Rode NT4 Kit	2
Royer R-122 Ribbon Microphone	2
Senheisser E901	1
Sennheiser MD421	6
Sennheiser SK3063-U Bodypack Transmitter	6
Sennheiser SKM 3072-U Handheld Radio Microphone	6
Shure Beta 52A	1
Shure Beta SM57	7
Shure SM58	8
Shure SM58S	4

Hearing Impaired System

An Ampetronic Induction Loop amplifier is available to the Stalls.

Audio Visual

Projectors

Christie Roadster S+20K

Output: 20,000 ANSI Lumens

Contrast: 1800:1 Full field

Native chip resolution: 1400x1050

Supported resolutions: VGA through QVGA (2048 x 1536)

Panasonic PT-D5700E

Output: 6,000 ANSI Lumens

Contrast: 2,000:1

Native chip resolution: 1024 x 768

Supported resolutions: VGA through 1080i (1920 x 1080)

Primary Projection Screen

12m x 6.75m perforated screen (16:9 ratio) with masking.

Alternative Projection Screens

The following fast fold screens are available freestanding, or flown with front projection options for each size.

Large - 20' x 11'3" (6.1m x 3.4m) 4:3 ratio

With 20' x 15' (6.1m x 4.6m) screen surface available for 16:9 projection

Medium - 10' x 7.5' (3m x 2.3m)

Small - 8' x 6' (2.4m x 1.8m)

Projector Rigging Points

Due to the lack of depth between the screen line and the back wall front projection only is recommended from either the control booth on Level 3 (MRC Christie projector) or the front of the balcony (MRC Panasonic projector).

Video Distribution

The MRC is able to distribute up to five separate VGA or DVI sources on up to nine screens anywhere in the MRC building. This includes: on-stage video monitoring; conductor monitoring; or projection. Video can also be distributed via BNC patching (Composite or SDI video).

Video Recording

A Panasonic robotic camera system allows the control of three HD cameras (AW-HE100E) for recording any performance across the EMH, Salon and function spaces of MRC. An Iconix miniature HD camera is available for discreet video recording including: on stage placement; conductor monitoring; or general video recording. A Panasonic P2 HD camcorder (AG-HPX172EN) is available to supplement this system, or for stand alone video recording applications.

A TriCaster video mixer is in place to mix, record and stream up to six video sources and three PC/Mac sources. Recording directly to a high quality Mpeg2 video file, the TriCaster allows for simple post production in Final Cut Pro and Adobe Audition. Alternatively, recording to other external sources, including tape, can be made available on request prior to the event.

AV Equipment List

Description	Quantity
9" Sony SDI video monitor LMD940W	1
HP PC Laptops	2
Mac Mini	1
Barco DS-200 vision switcher	1
Vista Spider video processor	1
DVD player	2
DVD recorder	1
22" Samsung VGA monitor	4
Panasonic robotic HD cameras (AW-HE100E)	3
Panasonic P2 HD camcorder (AG-HPX172EN)	1
TriCaster Broadcast video mixer	1
Panasonic PT-D5700E Projector	1
Christie Roadster S+20K Projector	1
VGA video sender (cat5)	5
VGA video splitter (cat5)	1
VGA video receiver (cat5)	9
VGA video distribution amp (1x4 vga split)	1

Recording – audio and A/V

A room for recording concerts with an announcer's booth is located to the prompt side of stage on Level 2.

MRC are able to provide presenters with several audio and a/v recording options including:

- Audio or A/V archival or promotional recording
- Autonomous audio stereo mix recording
- Autonomous audio multi track recording
- Post production editing mix facilities

MRC have in-house audio engineers who are able to provide these facilities for presenters.

Podcasting and live streaming

Podcast

Podcasting provides presenters with an opportunity to utilise the broad range of technological facilities available at MRC in a lasting way, by recording the concert or event and promoting it to a larger audience via a podcast on the internet. Recordings of audio and visual material, or just audio material, may be created for ongoing use as a podcast.

Video podcasting involves using a number of video cameras to record events across one or more of the spaces at MRC including the EMH, Salon or functions spaces. MRC are also able to record interviews with artists or other additional material to supplement any podcast or live stream. An MRC technician then edits these recordings and chooses sections of the recital that would then be published post-concert onto the internet as a podcast. MRC is able to provide presenters with an internet address and a link, so that your audience can visit the website and download the podcast.

Podcasting also provides presenters with a unique marketing tool to promote subsequent concerts to a larger audience via the internet. Please view the 'video' section of our website at: <http://www.melbournerecital.com.au> for examples of interviews and live concert recordings edited by our in-house technicians. Please discuss any podcast enquiries you may have with your Concert & Event Coordinator and they will be happy to assist you.

Live streaming

Live streaming is similar to podcasting, however video content is broadcast live via the internet instead of recorded for viewing at a later date. It can either be uploaded onto your organisation's website or the MRC website. Please ask your Concert & Event Coordinator for further information regarding this facility.

Outside Broadcast

A variety of interconnect and cable penetration options are available from EMH to OB position in the rear laneway. Please discuss your requirements with MRC technical staff.

Recital Instruments

The EMH houses the following fine instruments for use on stage. Use of these instruments is provided at the MRC's discretion and with tuning provided by the MRC's approved tuners:

Two Steinway D Grand Pianos (tuned to A440)
 Double manual Flemish-style Harpsichord (after Ruckers)
 Klop Chamber Organ (4 stop)
 C4 after Walter & Sohn Fortepiano A430

Backstage

Stage Door

The EMH Stage Door is located on Sturt Street and is manned from 0800 until venue closedown each day. Drivers making deliveries or collections should report here on arrival.

Dressing Rooms

Dressing rooms and the rehearsal room are located on stage level. There are four principal rooms with ensuites, and two larger rehearsal/orchestra rooms. There is also a Visiting Company Office available with telephone and internet access. Dressing room & BOH corridor plans are available on request.

Loading Access and Venue Location

Loading Access

The loading dock is not at stage level - access to the stage is via the Goods Lift.

Dock Access:	Sturt Street
Vehicle Height Clearance:	N/A
Dock Height:	H: 1000mm
Dock Door Dimensions:	W: 3370mm x H: 4000mm
Dock Lift Dimensions:	W: 2800mm x L: 3500mm
Max Lift Height:	H: 1500mm
Dock Lift SWL:	4000Kg
Goods Lift Doorway:	W: 2200mm
Goods Lift Internal Dimensions:	W: 2800mm x L: 4000mm x H: 2600mm
Stage Pass Door Dimensions:	W: 2570mm x H: 2700mm

Venue Location



Address

Venue Address:

Cnr Sturt Street & Southbank Boulevard
SOUTHBANK VIC 3006

Postal Address:

31 Sturt St
Southbank VIC 3006