

# ALEXANDER THEATRE

## TECHNICAL SPECIFICATIONS



June 2025

**Monash University Performing Arts Centres**

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**The Ian Potter Centre for Performing Arts**

**Alexander Theatre, David Li Sound Gallery, The Count's & Main Box Office**

48 Exhibition Walk, Clayton VIC 3800

**Robert Blackwood Hall**

49 Scenic Boulevard, Clayton VIC 3800

**George Jenkins Theatre**

47-49 Moorooduc Hwy, Frankston VIC 3199

## **STAGE:**

### **Stage Description**

Unraked stage with proscenium arch and automated fly system. Stage surface is painted black, Weathertex over plywood floor. Screwing into floor is permitted with up to 25mm standard chipboard screws.

**Stage Dimensions:**                    **16.1 m** (Width)  
   **10.5m** (Deep, including apron)  
   **7m** (Proscenium Height)

**False Proscenium:**                    Width variable between **10m to 12m** (Legs)  
   Height variable between **4m to 7m** (Border)  
   Standard soft opening is **10m**

**Setting Line:**                            **3.12m** (from D/S edge of Stage)

Distance from (*SL = Setting Line, CL = Centre Line*)

SL to DS edge of apron                    **3.12m**  
SL to U/S edge of Orchestra pit        **1.13m**  
SL to edge of Orchestra Lift/Pit        **3.12m**  
SL to first fly line – House curtain    **0.15m**  
SL to last upstage fly line                **7.55m**  
SL to rear wall                                **7.8m**  
CL to OP floor distance                    **11.8m (not inc. obstructions)**  
CL to PS floor distance                    **11.8m (not inc. obstructions)**  
Stage to underside of grid                **14.9m**

### **Stage Capacity:**

Stage Distributed Load Limit:        **750kg/m<sup>2</sup>**  
Stage Point Load Limit:                **450kg**

### **Auditorium:**

Stepped seating with two aisles and lower crossover behind first four rows of seating.

Seating Capacity (Standard Configuration)        **561** \*standard is with tech holds out

Technical Holds (sound desk in auditorium)        **5**

## Stage Apron/Orchestra Pit Hoist:

The Orchestra Pit Hoist's standard configuration is at stage level providing a large apron to the stage. It can be repositioned via motorised hoist to create an orchestra pit. Accessibility equipment is available upon request to enable access for performers with mobility needs.

## Set positions for Orchestra Pit Hoist:

Stage level	<b>0.6m above auditorium.</b>
Auditorium level	<b>0m</b>
Orchestra pit level	<b>2.95m</b> below stage
Piano Store load level	<b>3.64m</b> below stage
Lift can be set at any height	<b>No</b>
Dimensions of the orchestra hoist	<b>2m x 9.2m</b>
Dimensions of the orchestra pit	<b>5m x 9.2m</b>
Orchestra pit maximum capacity	<b>30 people</b> (inc. chairs, stands and instruments)

Due to ventilation concerns hoist **must** be at orchestra pit level for access from rear doors (orchestra).

## **FLYING FACILITIES:**

The Alexander Theatre fly system consists of a TAIT Towers iQ system, comprised of remote controlled electric winches. Fly lines can be driven individually, or in programmed groups and sequences. All operation of the fly system is by authorised MPAC staff **only**.

<b>Fly System console:</b>	<b>epiQ</b>
<b>Fly Operating Position:</b>	<b>OP Gallery</b>
	<b>Stage Level</b>
<b>Total number of Lines:</b>	<b>36</b> (including House curtain)
<b>Panorama Bars:</b>	<b>2</b> (Dead Hung 6500mm)
<b>Batten Drift:</b>	<b>1.1m to 14.6m</b>
<b>Batten Type:</b>	<b>75mm x 50mm RHS</b>
<b>Batten Length:</b>	<b>15.5m</b> (10 pairs of batten extenders, 500mm long)
<b>Bar WLL:</b>	<b>Line 1: 400kg</b> <b>Lines 2-38: 500kg</b>
<b>Max. Point Load:</b>	<b>75kg</b>
<b>Acceleration / Retard:</b>	<b>1m per sec @ 250kg</b>
<b>Batten Pick-ups:</b>	<b>5</b> at 3.4m apart.
<b>LX bars can be swung:</b>	<b>Yes</b> (except LX1)
<b>LX bar type:</b>	<b>HME Pro Batten</b> (16 x 3.5m, 4 x 3.0m, 1 x 15m sections)

The venue has 2 x RSJ's located in the ceiling space above the forestage, each beam has a Max WLL of 1000kg (No motors).

## HANGING PLOT:

Line #	Distance from SL	Max WLL	Venue Allocation
1	150mm	400Kg	HOUSE CURTAIN
2	350mm	500Kg	BORDER 1#
3	550mm	500Kg	LEGS 1#
4	750mm	500Kg	LX 1 #
5	950mm	500Kg	
6	1150mm	500Kg	
7	1350mm	500Kg	A/A SYSTEM
8	1550mm	500Kg	
9	1750mm	500Kg	BORDER 2#
10	1950mm	500Kg	LEGS 2# / TAB TRACK
11	2150mm	500Kg	
12	2350mm	500Kg	LX 2#
14	2750mm	500Kg	
15	2950mm	500Kg	A/A SYSTEM
16	3150mm	500Kg	
17	3350mm	500Kg	Fast Fold Screen *extra charge will apply
18	3550mm	500Kg	
19	3750mm	500Kg	BORDER 3# / SMOTHER
20	3950mm	500Kg	LEGS 3#
21	4150mm	500Kg	LX 3#
22	4350mm	500Kg	
23	4550mm	500Kg	
24	4750mm	500Kg	
25	4950mm	500Kg	BORDER 4#
26	5150mm	500Kg	A/A SYSTEM
28	5550mm	500Kg	LEGS 4# / TAB TRACK
29	5750mm	500Kg	
30	5950mm	500Kg	LX 4#
31	6150mm	500Kg	UNAVAILABLE
32	6350mm	500Kg	CYC LIGHTING UNITS
33	6550mm	500Kg	
34	6750mm	500Kg	
35	6950mm	500Kg	A/A SYSTEM
36	7150mm	500Kg	
37	7350mm	500Kg	
38	7550mm	500Kg	US SMOTHER

\*All stage machinery in the Alexander Theatre can only be operated by authorised MPAC staff.

## Drapery:

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Velour	Blue	16000	7800	<b>1 (Centre Split, does not draw)</b>
Border #1	Wool	Black	19000	3500	<b>1</b>
Border #2 & #4	Wool	Black	19000	3000	<b>2</b>
Legs #1 & #3	Wool	Black	3600	8200	<b>2 pair</b>
Tabs #2 & #4	Wool	Black	9500	8500	<b>2 pair</b>
Black Scrim	Sharks Tooth	Black	16000	8200	<b>1</b>
White Scrim	Sharks Tooth	White	16000	8200	<b>1</b>
Smother MS	Wool 530GSM	Black		8500	<b>1</b>
Smother US	Wool 530GSM	Black	18500	8500	<b>1</b>
Legs #5 (Spare)	Wool	Black	2500	11000	<b>1 pair</b>
Panorama Masking	Wool	Black	1500	7000	<b>4</b>

## Access Equipment: **EWP**

Maximum platform height is: **6m**

Maximum load is: **150kg**

\*EWP Restrictions: Operator must be deemed competent to operate the EWP by MPAC Technical Manager

## Ladders

1 x A-Frame Ladder **2.5m** Fibre Glass

1 x A-Frame Ladder **1m** Fibre Glass

**Loading Dock** Truck Access is at Loading Zone on the South East corner of the building.

Loading dock level is at stage level providing access to stage and basement levels.

**Loading Dock Height:** Adjustable dock leveller

**Goods Hoist:** 2.5m (Wide) x 3.3m Long

**Door Dimensions:** 2.8m (High)  
2.1m (Wide)

## Staging Notes:

Overhead equipment (including lighting and scenery) must be overseen and approved by MPAC staff or those deemed competent by MPAC Technical management, using appropriately certified equipment. **The venue reserves the right to refuse to rig and/or require additional or improved construction of items deemed not safe to be flown.**

Lighting equipment and accessories rigged overhead must be secured with a safety chain or suitable restraining device.

Scenery and large props must be suitably treated with fire retardant.

Approved drapes must be of a fire-retardant fabric or treated with an approved fire retardant and with an appropriate label attached to the drape.

Screwing into floor is permitted with up to 25mm standard chipboard screws. Larger screws or holes require permission from Technical Manager. Any damage to the stage floor may incur a repair or replacement fee to the hirer.

Limited stage rigging gear is available in house, including: lifting straps, shackles and FSWR. Any additional stage rigging gear must be appropriately rated and certified. **The venue reserves the right to refuse to rig and/or request replacement of rigging items deemed not safe to be flown.**

Please consult with Technical Management prior to Bump In for information on rigging requirements.

## **LIGHTING:**

**Control Position:** Dedicated control room at rear of auditorium

**Lighting desk:** ETC GIO@5

**Outputs:** 4096

**Signal distribution:** sACN from Control Room  
Pathport over ethernet to DMX-512 nodes in the field

**STAGE BARS:** 16 x LX SPOT BARS 3.5m (6 x 10a) [12 used in standard rig]  
4 x LX SPOT BARS 3.0m (6 x 10a)  
1 x LX BATTEN 15m LX 1 Line 4 (24 x 10a) [Cannot be Swung]  
*\*See hanging plot for standard LX bar locations*

**FOH Bridges:** 2 x FOH LX BRIDGES (36 x 10a per bridge)  
1 x Orchestra LX BAR 15m (24 x 10a)  
*\* FOH bridge access restricted to those deemed competent by MPAC Technical Manager*

**FOH Perches:** #1 (PS & OP) Setting Line to Perch 1 1.5m/8m off CL  
#2 (PS & OP) Setting Line to Perch 2 3.2m/8.7m off CL  
#3 (PS & OP) Setting Line to Perch 3 6.4m/8.8m off CL  
*\* Maximum loading per boom is 50kg per meter.*

**Booms:** 8 x 2.4m booms  
32 x 0.5m boom arms for booms and perches (see standard rig)

**Total Dimmers:** 383

**Racks:** LSC GENVI (2.4Kw x 12)  
*\*All dimmers hard wired to outlets. Supports relay configuration.*

**Lighting Traps:** 4 x PS & 4 x OP LX Stage traps have 6 outlets each.

**House Lights** **Independent control:** Yes, in addition to lighting console, no  
adjustable fade time **Control positions:** Control room, Stage Managers desk, LX console

## STAGE FIXTURES:

Profiles/Ellipsoidal:

Make	Model	Angle	Watt	Total
ETC	Source FOUR Fixed Beam	19°	750	6
ETC	Source FOUR Fixed Beam	26°	750	1
ETC	Source FOUR Zoom	15/30°	750	39
ETC	Source FOUR Zoom	25/50°	750	6
ETC	Source FOUR Zoom Jnr	25/50°	575	27

Fresnels:

Make	Model	Detail / Accessories	Watt	Total
Selecon	Rama	Barn-doors	1.2K	36
Selecon	Arena	Barn-doors	2K	6

LED:

Make	Model	Detail / Accessories	Watt	Total
Showpro	LED CYC2	RGBAL	~180w	16
ETC	D40 Lustr	RAGCBIW	~240w	12
Chauvet	Ovation Reve 2	RAGCBIW		12

Moving Lights:

Make	Model	Detail / Accessories	Watt	Total
Silver Star	Pluto 2000 Mk2	RGBW	~300W	12

Followspot: *\*Upon request. Hire charges may apply.*

Make	Model	Detail / Accessories	Watt	Total
Robert Juliet	Topaz	6 way Colour magazine	1200w	2

*\*Followspot locations are PS and OP in rear of auditorium*

## ADDITIONAL LIGHTING:

*Subject to Availability, following discussion with Technical Management, prior to engagement:*

Make	Model	Angle	Watt	Total
ETC	Source FOUR	26°	750	8
ETC	Source FOUR	50°	750	4
ETC	Source FOUR Fresnel		750	3

Item	Make	Model	Detail / Accessories	Total
Hazer	Look Solutions	Unique 2.1	DMX Controlled. Additional Charges apply	1

*\*Alexander Theatre Standard Lighting Plan available on request in PDF and VWX formats.*

## Haze

Minimum four days' notice required for any haze or smoke isolation.

**Only water-based haze fluid is permitted to be used.**

**Music Stand Lights** 20 x Rat Apollo sconce lights (Warm White)  
1 x DMX power supply 3 Channels

**Power** 3 Phase Outlets: 40A 3 phase outlets around the venue  
400Amp Power lock: Located upstage OP wing

### **Cabling**

The Alexander Theatre has limited stock of 240v extension cables and DMX cables to accommodate the venue's standard lighting rig.

Any additional equipment will require additional cable stock to be sourced.

## **AUDIO:**

### **Control Positions:**

Dedicated audio operating position either at rear of Auditorium or inside the control room.

Seats numbered W16-20 are automatically withheld from sale.

### **Mixing Console:**

DiGiCo Quantum 225  
96 Input Channels  
48 Aux / Sub-Group Busses  
LR/LCR Master Bus  
12 x 12 Full Processing Matrix  
48kHz Sample Rate  
Secondary screen - overview

### **Stage Rack:**

#### **Prompt Side**

DiGiCo DQ-Rack  
48 analogue in  
20 analogue out  
4 AES out

#### **Opposite Prompt**

DiGiCo DQ-Rack  
48 analogue in  
20 analogue out  
4 AES out (System outputs)

### **FOH Speakers: Meyer Leopard/Lina System LCR arrays**

6 x 750LFC (3 per side in Cardioid configuration)  
12 x Leopard (6 per side)  
5 x Lina (Centre)  
6 x UPM (Front Fill speakers)  
Galileo Galaxy Processing

### **Foldback:**

6 x Meyer UPJ-1P Stage Side Fill (fixed position, cannot be relocated)  
2 x QSC K12.2  
2 X QSC K10.2

### **Meyer Sound Constellation**

A unique feature of the Alexander Theatre is the Meyer Sound Constellation Active Acoustic Enhancement system. Active Acoustic Enhancement (AAE) refers to a process where sound is captured using multiple microphones, processed electronically, and broadcasted back into the room via loudspeakers. Instantaneous changes altering various acoustic properties (ie: reverberation time, reverberation length etc.) can be made to the system to suit a wide variety of musical performances.

There are three main zones (auditorium, stage and orchestra pit) that can have their acoustical properties altered independently to compliment the requirements of the performance. Microphones and speakers set out around these zones are positioned specifically to allow for a natural and even (AAE) experience.

We are also able to route sound signals to specific loudspeakers around these zones where required.

This function allows the system to expand its capability beyond just (AAE) serving the needs for surround effect inputs or stage monitoring reinforcement.

**MICROPHONES:**

<b>Make</b>	<b>Model</b>	<b>Detail</b>	<b>Total</b>
Shure	SM58	Dynamic	<b>6</b>
Shure	SM57	Dynamic	<b>2</b>
Rode	NT5	Condenser (Matched Pairs)	<b>6</b>
Sennheiser	E901	Plate Microphone	<b>4</b>
Radial	Pro AV2	Multimedia DI	<b>2</b>
Radial	Pro DI	Passive DI	<b>2</b>

**Microphone Stands:**

<b>Item</b>	<b>Model</b>	<b>Detail / Accessories</b>	<b>Total</b>
Microphone Stand Tall	K&M	Boom Arm	<b>10</b>
Microphone Stand short	K&M	Boom Arm	<b>4</b>
Microphone Stand Straight	K&M	Round Base	<b>2</b>

**Assistive Hearing:**

The venue is equipped with an induction hearing loop system.

**Notes:**

The Alexander Theatre has limited stock of 3-pin XLR cable in various lengths. There is also a limited stock of various audio adapters and connectors. All external equipment that may require specific adapters or connectors (i.e. instrument leads) are to be supplied by the hirer.

Additional audio equipment (e.g. radio mics) may be available by prior arrangement with Technical Management at an additional charge.

Additional stage monitors may be available with prior arrangement with Technical Management, additional charges may apply.

For more information on the Meyer Constellation system schematics, please contact Technical Management.

## **AUDIO VISUAL:**

**Projector Position:** Control room

**Operating Position:** PS at Stage Manager Desk and/or Control Room

### **Projector:**

Type	Model	Detail / Accessories	Quantity
Panasonic	PT-RZ120BE	12K Lumens *Additional charges apply*	1

**Projection Screen:** Cyclorama Wall as standard

Fast fold Screen hung on Line 17 *\*extra charges will apply*

**AV Playback Equipment:** Standard Resolution is 1920 x 1080p. All devices must be HDMI compatible. Client to provide all input devices and any adaptors or connectors required for input devices.

**AV Switching:** Blackmagic Design ATEM 1ME Constellation HD (This is for switching the input for the projector)

### **Audio Visual Infrastructure:**

The Alexander Theatre has SDI tie-lines throughout the venue for audio visual distribution

### **Notes:**

Standard Resolution is 1920 x 1080p.

The Alexander Theatre has a limited supply of HDMI and SDI cable.

## **BACKSTAGE:**

### **Stage Managers Desk:**

Stage Manager's desk is located in Prompt Corner. Desk has limited mobility within this area and is fitted with a light, clock, dual 7" monitors with Show Relay, comms, and BoH Paging.

### **Talkback:**

<b>Master Unit</b>	<b>Riedel x 2 RSP2318</b> (fixed at SMD and LX op's position)
<b>Wired units</b>	<b>4 Riedel C3</b> (one unit allocated to Audio op's position)
<b>Wireless</b>	<b>4 Riedel Bolero</b> (one unit allocated to MPAC Supervising Technician)
<b>Headsets</b>	<b>Total of 8 allocated to venue</b>
<b>Talkback patching</b>	All locations in venue

### **Paging / Show relay:**

Paging to all dressing rooms is controlled from the stage manager's desk. Show relay audio and video is distributed to all dressing rooms and Green Room as standard.

### **Show Feed Video Monitor Positions:**

1. Stage Manager's Desk
2. DS wall of each wing
3. All Dressing Rooms
4. Green Room

Camera located centre of the control room & Orchestra pit

### **Cameras:**

<b>Purpose</b>	<b>Make</b>	<b>Model</b>	<b>Location</b>
Show Feed (Full Colour)	Panasonic	AW-HE40	Control Room
Low Light (Infra-Red)	Panasonic	AW-UE70	FOH Bridge 1

### **Work Light:**

Venue is fitted with a comprehensive and flexible Blue/White work light system in all backstage areas

### **Orchestral:**

<b>Item</b>	<b>Total</b>
Music Stand	20
Sconce	20
Musician's Chair	10
Conductors Podium	Conductor riser with hand rail on one side

### **Grand Piano**

#### **Steinway 9' 2018**

Additional charges apply, initial tune included. Additional tune(s) available upon request at additional cost

## **ADDITIONAL FACILITIES & INFORMATION:**

### **Dressing Rooms:**

<b>Dressing Room</b>	<b>Capacity</b>	<b>Toilets</b>	<b>Shower</b>	<b>Details:</b>
Rm. 1	6-8	1	1	At stage level ( <i>not DDA Compliant</i> )
Rm. 2	6-8	1	1	At stage level ( <i>not DDA Compliant</i> )
Rm. 3	30	1	0	Above Stage level ( <i>not DDA Compliant</i> )
Rm. 4	30	0	0	Below Stage level. Toilets shared
Rm. 5	30	0	0	Below Stage level. Toilets shared
Rm. 6	30	0	0	Below Stage level. Toilets shared
Rm. 7	2	1	1	Below Stage level - (Orchestra)
Rm. 8	2	1	1	Below Stage level - (Orchestra)

*Dressing rooms 4 through 8 are completely DDA compliant allowing full access to performers with access needs. Please contact the venue hire coordinator for further information*

### **Production Facilities:**

Production Desk: \*Upon request  
Production Office: **No**  
Phone: **No**

### **Laundry:**

Located in the basement level and accessible via passenger and loading dock lifts.

Washing Machines: **Yes**  
Dryers: **Yes**  
Drying rooms: **No**  
Iron / ironing board: **Yes**  
Clothes racks: **Yes**

### **Kitchenette:** (In Green Room & Dressing Room 3)

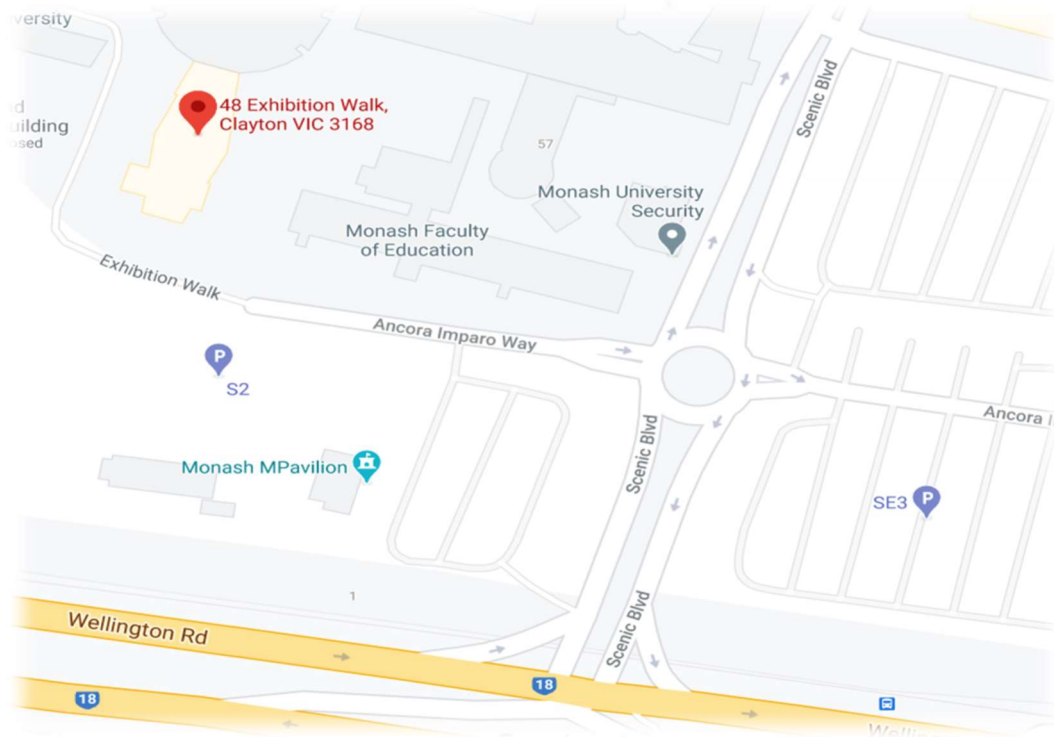
Fridge / freezer: **Yes**  
Microwave: **Yes**  
Running hot/cold water: **Yes**

### **Access:**

Stage Door access for performers is located in the South West corner of the building. Please ensure you discuss venue access time with your account representative.

## **VENUE:**

**Venue Address:** 48 Exhibition Walk  
Monash University Clayton Campus,  
Clayton 3800 VIC.



**Technical Manager:** **Matthew King**  
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