

Clocktower Centre

Clocktower Centre

Technical Specifications

Updated
January 2021

Technical Services Supervisor:

Phone number:

Email address:

Katie Harrigan

03 9243 9194

kharrigan@mvcc.vic.gov.au

Venue:

Phone number:

03 9243 9191

STAGE

Brief Stage Description:

Unraked stage with a proscenium arch and flying facilities. Structural plywood floor covered with Masonite sheets. Screwing into surface permitted but larger holes to be authorised by Technical Services Supervisor.

Stage distributed load limit	700kg / m2
Stage Point load limit	400kg
Orchestra Pit distributed load limit	200kg / m2, maximum 6,000kg
Orchestra Pit Point load limit	200kg
Stage Rake	NO

Stage Dimensions:

Proscenium

Width	10.96 metres
Height	6 metres

Setting Line

1.75 metres upstage of the fixed stage/forestage.

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

SL to DS edge of apron	4200mm
SL to US edge of Orchestra Lift/Pit	1750mm
SL to last upstage fly line	7250mm
SL to rear wall	7400mm
CL to OP wall (or obstruction)	8100mm
CL to PS wall (or obstruction)	11000mm
Stage to underside of grid / roof	15000mm

Overhead obstructions

PS Gallery height	4000mm
OP Gallery height	5600mm

Auditorium:

Auditorium consists of stalls (291 seats) and a dress circle (214 seats).

Seating capacity with additional Orchestra lift/pit seating installed	545
Seating capacity <u>without</u> Orchestra lift/pit seating installed	505

Orchestra Lift / Pit:

Orchestra Pit

A motorised orchestra pit that must be operated by competent staff only.

Set positions for orchestra lift where lift at auditorium level is 0mm

Stage level at **1100mm** above auditorium.

Orchestra pit level at **1600mm** below auditorium.

Lift can be set at any height **No – 600mm below stage level only for Orchestra**

SWL of orchestra lift **6 tonnes with a maximum point loading of 1.02 tonnes**

Dimensions of the orchestra pit Usable area for an orchestra is 12m x 2.5m

Flying Facilities:

Fly System

The fly system is a single purchase handline system.

Fly System Details

Operating position	Stage Level, OP
Total number of lines	30
Panorama Lines	1 bar OP and 1 bar PS
Batten flight height	14500mm
Batten type	40NB medium steel pipe, (48.3 outside diameter)
Batten length	11200mm
LX bars can be swung	YES
Fly bars can be swung	YES

Standard Operation

Batten point load	at lift line 325kg, between lift lines 60kg
Batten W.L.L.	350kg
Cradle capacity	350kg

With Cradle Extensions

Batten point load	at lift line 400kg, between lift lines 60kg
Batten W.L.L.	500kg
Cradle capacity	500kg

SEE HANGING PLOT FOR LINE ALLOCATIONS AND FURTHER INFO

Additional Rigging points

none

Hanging Plot:*SL: Setting Line as indicated previously**Line Type: SP = Single purchase, DP = Double purchase, MW = Motor Winch, HW = Hand Winch, HL = Handline**W.L.L.: Maximum distributed load including bar weight*

Line #	Dist. From SL	Line Type	W.L.L	Venue Allocation	Intended Use (hiring company use)
H.C	350mm DS	SP	350kg	House Curtain	Not available
1	150mm DS	SP	350kg		Available
2	N/A				
3	250mm	SP	350kg	LX1	Not available
4	N/A				
5	650mm	SP	350kg	Projector	Not available
6	850mm	SP	350kg	Leg	Not available
7	1050mm	SP	350kg		
8	1250mm	SP	350kg		Available
9	1450mm	SP	350kg		Available
10	1650mm	SP	350kg	Border	Not available
11	1850mm	SP	350kg	Leg	Not Available
12	2050mm	SP	350kg	LX2	Not Available
13	N/A				
14	2450mm	SP	350kg		Available
15	2650mm	SP	350kg		Available
16	2850mm	SP	350kg	Border	Not available
17	3050mm	SP	350kg	Mid Tabs	Not available
18	3250mm	SP	350kg	LX Spare	Available
19	N/A				
20	3650mm	SP	350kg		Available
21	3850mm	SP	350kg		Available
22	4050mm	SP	350kg	Border	Not available
23	4250mm	SP	350kg	Leg	Not available
24	4450mm	SP	350kg	LX3	Not available
25	N/A				
26	4850mm	SP	350kg	LX 4 (Par Can)	Not available
27	5050mm	SP	350kg	Border	Not available
28	5250mm	SP	350kg	Leg	Not available
29	5450mm	SP	350kg		Available
30	5650mm	SP	350kg		Available
31	5850mm	SP	350kg	LX5	Not available
32	N/A				
33	6250mm	SP	350kg	Rear Tabs	Not available
34	6450mm	SP	350kg		Available
35	6650mm	SP	350kg		Available
*36	6850mm	SP	350kg	Panorama OP	Available
*37	7050mm	SP	350kg	Panorama PS	Available
38	7250mm	SP	350kg	Cyclorama	Not Available

* Please note bar 36 and Bar 37 run vertically US to DS

Drapery:

*Type	Material	Colour	Width	Height	Quantity
House Curtain	Velour	Red	6350mm	6500mm	1
Borders	Wool	Black	12200mm	3000mm	4
Legs	Wool	Black	2200mm	6300mm	4 pair
Tabs / Smother	Wool	Black	6400mm	6300mm	2 pair
Cyclorama	Cotton Canvas	White	12200mm	7000mm	1
Scrim	N/A				

Access Equipment:

Elevated Work Platform

JLG 20MVL self-propelled single Man Lifter

Maximum reach is 5970mm

EWP Restrictions

Must be operated by Clocktower Staff.

One additional staff member to be located at base whilst in use.

Cannot be used on the ramps.

Ladders

(1) 3 metre platform ladder

(1) 2.4 platform ladder

(2) 1.8m step ladder

(2) 0.9m step ladder

Staging Units:

(4) Ezy Staging Units, 1800 x 2400 x 400/600mm (variable height)

(3) Ezy Staging Treads, 400mm

(3) EziStage 1200 x 2400 x 200mm high (single height)

(6) EziStage 1200 x 2400 x 400/600mm (variable height)

Stage Covers:

Style N/A

Dimensions N/A

Colour N/A

Stage Traps:

Four Traps on either side of stage (mirrored) at 1450mm, 3150mm, 4850mm and 6550mm upstage of SL. All have dimensions of 290 x 150mm.

Safety Curtain:

Safety Curtain installed **No**

Safety Curtain must be unobstructed at all times **N/A**

Thickness of Fire Curtain **N/A**

Distance from setting line **N/A**

Additional Requirements

None

Loading Dock:

Access

Truck access via Pascoe Vale Road. Up to 8 Tonne Trucks can reverse into loading dock.

Loading Dock Height **6500mm**

Door Dimensions **4200mm High**
 3200mm Wide

Restrictions / Obstructions

Stage Level is 2100mm above dock/street level.

Goods lift 1900 x 2200.

Inner Roller Door - **3350mm High**
 3300mm Wide

Semi-trucks are to be parked on Pascoe Vale Road and all equipment to be transferred by hand to the goods lift.

Staging Notes:

All flown items must be rigged with rated equipment and is subject to approval by a venue representative.

Limited rigging gear available in house. All flown items must be approved by a venue representative.

The Clocktower Centre reserves the right to refuse any flown item at any time.

All flying must be supervised by a venue representative.

LIGHTING

Positions:

Stage LX Bars LX Bars can be swung with prior notice to the Technical Services Supervisor.

See hanging plot for standard LX bar locations

FOH Bridge 2

Setting Line to lighting bar **12000mm**

Usable bar width **12900mm**

Notes -

FOH Bridge 1

Setting Line to lighting bar **6400mm**

Usable bar width **12900mm**

Notes -

Orchestra Bar

Setting Line to lighting bar **N/A**

Usable bar width **N/A**

Notes N/A

Dress Circle Bar

Setting Line to lighting bar **18700mm**

Usable bar width **16500mm**

Notes No patch points available on bar.

FOH Perches (OP & PS)

Perch US (OP &PS) **8200mm (CL), 1800mm (SL)**

Perch DS (OP &PS) **8200mm (CL), 5700mm (SL)**

Maximum lights per perch **(8) Selecon Pacific Zoomspots**

Notes Maximum rigging height 4000mm

Standard Rig:

2 colour wash FOH and onstage wash L153/L202

LED FOH lights

LED par back light

LED Cyc Wash

LED onstage lights

5 profiles on FOH2 and 3 profiles per bar from LX 1,2,& 3 available for specials

6 decals from the perches, LX1 and LX3

Control:

Lighting desk: **Etc ION 1500 with universal fader wings 2x10 & 2x20**

Signal distribution: **Three Universes of DMX to isoports around building. Distributed dimming system**

Dimmer Racks:

Total Dimmer Racks 15

2.4Kw Dimmer Racks **Jands HP -11 (Digital)**

Total dimmers @ 2.4kw per dimmer **144 channels**

5Kw Dimmer Racks **Jands HP - 3 (Digital)**

Total dimmers @ 5kw per dimmer **18 channels**House Lights:

Independent control **Yes**
 Control positions **Control Room and Stage Managers Console.**
 Fade time adjustable **Yes**

Stage Luminaire:**Profiles**

Make	Model	Angle	Detail / Accessories	Watt	Total
Selecon	Pacific	12/28	(10) Gobo holders to suit, (4) iris'	1000w	30
Selecon	Pacific	23/50		1000w	20
Selecon	Pacific	12/28	(10) Gobo holders to suit, (4) iris'	600w	12
Selecon	Pacific	23/50		600w	11

Fresnel's

Make	Model	Detail / Accessories	Watt	Total
Selecon	HP	(16) Barndoors	1200w	15
Selecon	Acclaim	(20) Barndoors	650w	20

PC

Make	Model	Detail / Accessories	Watt	Total
Selecon	HP	(16) Barndoors	1200w	16

Par Cans

Make	Model	Angle	Detail / Accessories	Watt	Total
Chauvet	RGBWA + UV Led pars	MFL	(20) 240V Lamps, MFL Only All DMX controlled	60w	28

Cyc Wash

Make	Model	Detail / Accessories	Watt	Total
Chauvet	Ovation C-640FC	Gel Frames	190w	12

Movers

Make	Model	Control Channels	Detail / Accessories	Watt	Total
N/A					

Follow spots

Make	Model	Angle	Detail / Accessories	Watt	Total
Selecon	Pacific		4 colour magazine	1200w	2

Additional

Item	Make	Model	Detail / Accessories	Watt	Total
Mirror Ball	-	18"	18" diameter ball with motor		2
Molefay Duets				1200w	2
UV Fluro Battens			Floor use only		6
Strobe	Martin	Giga strobe	DMX controlled (2) channels	1500w	
Smoke Machine	Martin	Magnum 1800	DMX controlled		2
Hazer	Martin	Unique	DMX controlled		1

Patching:

Location	Quantity	Numbering (PS to OP)	Detail / Accessories
FOH 1	26	25-44 / 75-80	
FOH 2	26	45-64 / 69-74	
LX 1	36	1 - 36	
LX 2	24	1 - 24	
Line 18	24	1 – 24	
LX 3	24	1 - 24	
LX 4			LED par bar
LX 5			LED Par bar
PERCH DSP	6	13 - 18	
PERCH DSOP	6	19 - 24	
PERCH USP	6	1 - 6	
PERCH USOP	6	7 - 12	

Production Desk:

Production desk set-up at the back of the stalls. Table accommodates 2 people with dimmable lighting, DMX for the lighting desk, talkback, and audio patch lines.

Power:

3 Phase Outlets

- (2) 40A under stage on PS (one for dimmer use only)
- (1) 40A under stage on OP (dimmer use only)
- (1) 40A tech office.
- (8) 40A PS Gallery (dimmer use only) & (1) 32A PS Gallery.
- (2) 40A OP Gallery
- (1) 40A in Foyer
- (1) 40A next to SM desk – AUDIO only
- (1) 40A in studio

Cabling:

240v Extension Cable

The theatre has a good stock of extension leads to accommodate the venue's standard lighting rig.

Looms

- (2) 20m 5-way Weilands
- (2) 20m 8-way Weilands
- (2) 30m 5-way Weilands
- (2) 30m 8-way Weilands

3 phase Extensions

- (2) 40 AMP 20m

AUDIO

Control & Amplification:

Primary Mixer

Yamaha CL1, PW800W power supply, RIO 3224 rack - onstage, RIO 8 Output – gallery (amp rack)

Amplifiers

NEXO – NEXNXAMP4X4C

2 x L-Acoustics LA4X

2 x MC2 Audio T1000 power amplifiers, 2 channel

EQ

CL1

FX

CL1

Compression / Limiter

CL1

Speakers:

FOH Speakers

Left and Right -

1x Nexo GEOS1210, 2 x Nexo GEOS1230 array

Subs (Centre hung) -

2 x Nexo – RS15P

Additional speakers (Foldback or front fill)

4 x QUEST HPI 125 overhead monitors rigged on LX 1

4 x QUEST HPI 125 overhead monitors rigged on LX 3

6 x L'Acoustic X12

6 x RCF ART310 powered speaker

2 x Tannoy T300

2 x Tannoy i8

2 x Funktion 1 Minibass 212

Other available options:

Yamaha CL3, RIO 3224 rack.

Control Positions:

Control Room

Above Dress Circle. Control Room open to Auditorium

Auditorium

Located at rear of Stalls in the centre of row N or M. Seats must be allocated if company desk is to be placed in this position.

Other

Prompt side at Stage Manager's console, mixer can be patched through to house system.

Playback*:

Item	Make	Model	Detail	Total
Mac Mini	Apple		iTunes, Qlab 3, Dante Virtual Sound Card	1
CD Player	Tascam	CD500	CD500	2

*Facilities for playback via laptop or ipod available (company to supply laptop/i pod).

Microphones & DIs:

Make	Model	Detail / Accessories	Use	Total
AKG	HM1000 & CK 31	Condenser Cardioid	Choir	3
Beyer	M88TG	Dynamic HC	Vocal/Kick Drum	2
Beyer	M201TG	Dynamic HC	Instrum./Drum	4
DPA	Defacto II	Wired or wireless with adaptor. Condenser, HC	Vocals	2
DPA	4011C	Condenser Cardioid	Choir/instrument	3
Microtech Gefell	M930	Lrg diaphragm Condenser cardioid. Shock mount.	Piano/instrument	2
Shure	KSM141	Condenser Omni/Cardioid	Instrument	2
Shure	KSM137	Condenser Cardioid	Instrument	4
Shure	SM Beta 58a	Dynamic HC	Vocals	6
Shure	SM 57	Dynamic Cardioid	Instrument	4
Sennheiser	EW500 G3 series	Radio Channels Receivers		8
	JAG IMX6A	Headset mic Condenser Omni	Vocals	9
		Lapel mic Condenser Omni	Vocals	4
Sennheiser	EW 500 G3/e945 capsule	Handheld Radio Dynamic HC	Vocals	6
Sennheiser	E835 S	Dynamic Cardioid Switch		2
Sennheiser	E840	Dynamic Hyper Cardioid		2
Shure	Beta98 AMP	A75M Stand mount. Condenser Cardioid	Drums/horns	4
Shure	Beta52a	Dynamic cardioid	Kick Drum	1
Shure	MX418	Goose Neck Condenser	Lectern	1
Shure	MX412	Goose Neck Condenser	Lectern	2
Shure	MX393/S	Plate Microphone Condenser	Choir/tap	3
Shure	Beta91A	Plate Microphone Condenser	Kick Drum/instru	1
BSS	Active DI	AR133		2
Radial	JDI	Passive Direct		4
Radial	JPC	Stereo Active DI		2
Radial	USB DI	Stereo		2
Radial	Pro AV	Passive Stereo DI		2
Radial	J48	Active DI		2

Accessories:

Item	Model	Detail / Accessories	Total
Microphone Stands	Tripod Base	Long	10
	Tripod Base	Short	5
	Round Base	Long	4
	Round Base	Short	4
	Table stand		3

Lectern			2
Speaker Stands	Tripod Base		4

Patching:

Location	Quantity	Numbering	Detail
Control Room	40	1 – 40	32 sends, 8 returns
Production Point	40	1 – 40	32 sends, 8 returns
OP Wing	24	1 – 24	24 sends
Orchestra Pit	24	1 – 24	24 sends
Rear Stage Prompt	4	1 – 4	4 sends
Rear Stage O Prompt	4	1 – 4	4 sends
Foyer	4	1 – 4	4 returns

*all patch points to prompt Rack

Dante Patching:

Location	Quantity	Detail
Bio Box	3 Primary, 3 Secondary	
Stalls Row N	3 Primary, 3 Secondary	
Amp Rack	2 Primary 2 Secondary	
PS Rack	3 Primary, 2 Secondary	

Cabling:

Audio Cable

The theatre has a good stock of cables to accommodate the venue's audio equipment. The inventory includes 3 pin XLR, speakon and cat 6 cabling. If additional audio equipment is being brought in additional cabling will be required.

AUDIO VISUAL

Projection Room:

- 1x Panasonic HMX 100 Vision Switcher
- 1x Blackmagic Design SmartView HD Screen
- 1x Blackmagic Design SmartView Duo
- 1x Mac Mini with Qlab and Microsoft Office
- 1x Blu Ray Player
- *Mac users required to bring in own VGA/HDMI adaptors for laptops.

Playback options:

- USB
- CD/DVD
- Laptop with VGA/HDMI connectivity

Projectors:

- 2 x Hitachi CPWU 9410 with ultra-short throw lens, 8500 lumens
 - Native Resolution: 1920x1200*
 - Aspect Ratio: 16:10*
 - Video imaging should be in HD format, so 1080p/60 or 1080i/60*
- 1 x Mitsubishi board room projector, 3000 lumens
- 3 x Hitachi CP-WX4042WN Boardroom Projectors, 4000 Lumens

Screens:

- Fast fold screen 20'x11'3"
- Cyclorama can be used as a screen.

Projector Rigging Points:

- Line 5 (ideal position to fit cyclorama). The Projector can be moved in consultation with Technical Services Supervisor.

Cabling:

- The theatre has 4 SDI runs through the building. 2 in prompt corner and 2 in the prompt mid gallery. The theatre has an assortment of SDI, HDMI and VGA cables.

Streaming equipment:

- 2 x BirdDog Eyes P200 PTZ (Pan Tilt Zoom) cameras
- 1 x Canon XA40 auxiliary camera
- 1 x BirdDog PTZ Keyboard
- 1 x BlackMagic UltraStudio 4k Mini Capture Device running *Desktop Video*
- 1 x iMac running *OBS Studio*
- 1 x Panasonic AG-HMX 100 Digital Vision Mixer

BACKSTAGE

Communications:

Stage Managers Desk

Stage Manager's desk is located in prompt corner. The desk can be moved within its area and is fitted with a light, clock, stage video and audio, talkback and dressing room paging.

Talkback

Master Unit

FreeSpeak II Stand alone Base Station system running two channels

Total sub stations

**6 beltpacks (wired) with headsets, 4 squawk boxes
5 wireless beltpacks (FSIIBP) with headsets**

Talkback patching located at:

**Stage Manager's Desk (master station)
Control Room, lighting, audio, AV, domes x 2
Flys OP
US x 2
Production Position and Centre Stalls
Orchestra Pit
Green Room**

Paging / Show relay

Paging to the dressing rooms is available from the stage manager's desk. Show relay is distributed to all dressing rooms and green room. All rooms have an individual volume control.

Stage Monitor

TVs set-up in green room, foyer and SM position. Camera located centre of bio box

Q Light System

In house Q light system available **No**

Dressing Rooms:

Dressing Room	Capacity	Toilets	Shower	Details
Dressing Rm #1	2	No	No	Accessible toilet/shower adjacent
Dressing Rm #2	2	No	No	Accessible toilet/shower adjacent
Dressing Rm #3	6	No	No	Shared shower & toilets with DR #4
Dressing Rm #4	11	No	No	Shared shower & toilets with DR #3
Studio	80	No	No	Additional room if required

Laundry / Wardrobe:

Washing Machines	One
Dryers	One
Iron / ironing board	One
Clothes racks	2 mobile racks, each dressing room has fixed rails

Production Facilities:

Production Office

No. Dressing room #3 can be used as an office

Phone

No.

Fax

Yes.

Access to phone

No

Internet Access

Wireless Pass available (reception in FOH areas)

Greenroom:

Tea / Coffee facilities	Yes
Fridge	Yes
Microwave	Yes
Running water	Yes

Stage Door/Backstage Access:

Stage Door is located next to the loading dock on Pascoe Vale Road. This door is unsupervised and kept locked at all times. Generally access for cast and crew is through main front entrance 0800-1700. Access through the foyer outside these hours can be negotiated with the Technical Services Supervisor.

ADDITIONAL FACILITIES & INFORMATION

Orchestral:

Orchestra pit.

Rehearsal Space:

Studio, 10.5m x 9m, timber floor, one side with ceiling to floor mirrors. Bookings required for use

VENUE:

Venue Contacts:

Venue Address **750 Mt Alexander Road, MOONEE PONDS, VIC 3039**

Venue Postal Address **750 Mt Alexander Road, MOONEE PONDS, VIC 3039**

Staff Contacts:

Cultural Facilities Coordinator

Mobile

Email Address

Iain Finlayson

(03) 9243 1918

ifinlayson@mvcc.vic.gov.au

Technical Services Supervisor

Email Address

Katie Harrigan

kharrigan@mvcc.vic.gov.au

Acting Team Leader - Operations

Email Address

Katie Lohner

klohner@mvcc.vic.gov.au

Ticketing Services Supervisor

Email Address

Vito Mattarelli

vmattarelli@mvcc.vic.gov.au

Catering Services Supervisor

Email Address

Trang Hoang

thoang@mvcc.vic.gov.au

Office Contact

Phone Number

03) 9243 8819

Fax Number

03) 9243 9177

Box Office

03) 9243 9191

Venue Plans:

Venue Plan Available

Yes, hard copy at 1:100 can be mailed, or a PDF emailed upon request. Also available at our web site.

Venue Section Available

Yes, hard copy at 1:100 can be mailed, or a PDF emailed upon request. Also available at our web site.