

THE NATIONAL THEATRE 2023 TECHNICAL SPECIFICATIONS

Version 4.1

Last Updated: 17/08/2023

GENERAL

ADDRESS

The National Theatre Melbourne
20 Carlisle Street
St Kilda VIC 3182
[The National Theatre Google Maps](#)

BUILDING ACCESS

The Dock Doors are the main point of access for the stage. The doors are accessed via the metal staircase next to the Goods Lift in the carpark on Albert Street.

CONTACTS

NAME	ROLE	EMAIL	PHONE
Rod Gilbert	Venue Operations Manager	venue@nationaltheatre.org.au	0412 195 975
Rob Hornbuckle	Production Manager	production@nationaltheatre.org.au	0417 100 678
Max Woods	Technical Manager	technician@nationaltheatre.org.au	0409 656 698

PARKING

On street parking is available on Carlisle and Barkly (please check signage).

The closest paid parking is located at the Acland Court (183 Barkly St), near Coles Supermarket and just a short walk from The National Theatre Melbourne – entry and exit is via Barkly Street. Paid parking is also available on Irwell Street, Belford Street and beside The Palais Theatre.

PUBLIC TRANSPORT**TRAM**

Catch the Route #16 to Stop #33 - Barkly St/Carlisle St.

Catch the Route #96 to Stop #138 - Luna Park/The Esplanade, then walk 5 minutes east (away from the beach) along Carlisle Street.

TRAIN

The closest train station to the National Theatre Melbourne is Balaclava Station on the Sandringham line. From here, catch the Route #16 towards Melbourne University to Stop #33 - Barkly St/Carlisle St.

AUDITORIUM

Raked auditorium with total capacity of 783 people.

CONFIGURATION

The auditorium is divided into two sections by a crossover between Rows H and J.

The front section contains 264 lounge armchairs.

The rear section contains 519 tip up seats.

ACCESS

Wheelchair access can be accommodated, but seating is limited to Row J.

BUMP IN

GOODS LIFT

Weight Capacity: 3000kg (3 tonne)

Height: 2800mm

Width: 2800mm

Depth: 4000mm

The goods lift is accessible via a loading zone in the rear carpark on Albert Street.

LOADING DOCK

Equipment is transported to the loading dock via the goods lift. The loading dock is 880mm below stage level.

There is a set of stairs leading up to stage level, or ramps are available when required.

The loading dock door is 1565mm wide x 4000mm high.

ELECTRICAL SAFETY

All electrical equipment must be tested and tagged to AS/NZS 3760 and display a current and valid tag.

Any electrical equipment not tested and tagged will be tested and tagged at the hirer's expense.

STAGING

CONFIGURATION

The National Theatre is configured as a proscenium arch performance space, with an apron between the proscenium arch and the auditorium. The orchestra pit resides underneath the apron, and the flooring in this area can be removed should an open orchestra pit be required.

STAGE SURFACE

The stage surface at The National Theatre is black masonite. Drilling into the stage is not permitted without prior permission from the venue.

ALTERNATIVE STAGE SURFACES

QUANTITY	ITEM	DIMENSIONS
6	Black Tarkett Roll	13500mm wide x 2000mm deep

Please inform the venue if you require the use of the Tarkett.

STAGE WEIGHT LOADING

The Live Weight Loading Limit (WLL) at The National Theatre is different for different areas of the stage.

Upstage of the Proscenium Arch: 7.2kPa

Downstage of the Proscenium Arch: 2.0kPa

DIMENSIONS

NB: the setting line is the upstage edge of the proscenium arch.

Setting line to upstage floor limit:	10920mm
Setting line to cyclorama:	10680mm
Setting line to centre of apron:	4228mm
Stage width with legs in:	9500mm
Stage width without legs in:	13740mm
Width of proscenium arch:	10624mm
Height of proscenium arch (centre):	5500mm
Height of proscenium arch (edge):	5100mm
Stage to underside of grid (drift):	13970mm

TECHNICAL SPECIFICATIONS

STAGE DRAPES

QUANTITY	ITEM	DIMENSIONS
10	Black Pleated Legs	3200mm wide x 6400mm drop
5	Black Pleated Borders	12000mm wide x 1500mm drop
4	Black Tabs (2x Sets of 2)	7000mm wide x 6500mm drop
1	Red Velvet House Curtain	13000mm wide x 7000mm drop
1	Black Gauze Scrim	12500mm wide x 6500mm drop
1	White Cyclorama	14000mm wide x 6000mm drop
9	Black Drapes (Push Up)	3100mm wide x 4200mm drop

FLY BARS

The National Theatre maintains a standard hanging plot. Please refer to the 2023 National Theatre Standard Hanging plot for detailed hanging positions.

QUANTITY	OPERATION POSITION	TYPE
3	Prompt Side	Chain Motor Control Lighting Bar
2	Opposite Prompt	Single Purchase Counterweight Lighting Bar
17	Prompt Side	Single Purchase Counterweight
4	Opposite Prompt	Single Purchase Counterweight

NOTE: changes may not be made to the standard hanging plot without prior permission from the venue.

STAGING DECKS

QUANTITY	ITEM	DIMENSIONS
4	Black Rostra Riser	2400mm wide x 1200mm depth x 300mm height

TECHNICAL SPECIFICATIONS

LIGHTING

CONTROL

QUANTITY	EQUIPMENT	ACCESSORIES
1	ETC Eos Nomad with Eos Programming Wing	2x ETC Eos 20 Fader Wing 2x Monitors 1x Keyboard 1x Mouse

The lighting console is located at the rear of the auditorium in the bio box.

DMX

The National Theatre uses sACN DMX Architecture.

QUANTITY	EQUIPMENT	UNIVERSES
2	LSC Nexus Node	Universes 1 through 10

DMX Universes are run as per the following:

UNIVERSE	LOCATION
1	Analogue Dimmers, Front of House Bridge, and Stage Floor Traps
2	Orchestra Bar
3	Lighting Bar 1
4	Lighting Bar 2
5	Lighting Bars 3 & 4
6	
7	
8	
9	
10	

POWER

QUANTITY	EQUIPMENT	LOCATION	WATTAGE
77	JTM Analogue Dimmers	Dimmer Room	2000
17	JTM Analogue Dimmers	Dimmer Room	5000
6	Hot Power Patches	Dimmer Room	4800
6	Switchable Hot Power Patches	Dimmer Room	2400
12	Hot Power Distribution Patches	Dimmer Room	1920
1	32 Amp 3-Phase Outlet	Prompt Side	

TECHNICAL SPECIFICATIONS

FIXTURES

The National Theatre maintains a standard rig comprised of the fixtures in the table below. Please refer to the 2023 National Theatre Standard LX Rig Plan for hanging positions.

QUANTITY	TYPE	ACCESSORIES	WATTAGE
20	RGBWA 40° LED PAR		350
12	Fine Art 420L Spot		550
4	Fine Art 420L Performance		550
8	ACME Oxygen CM-400Z		380
6	ShowPro LED Par Quad-18		180
8	RGBW Par64	8x Barn doors	120
1	RGB Starcloth		300
16	Selecon Acclaim Axial 24-44°	8x Gel frame	600
8	Selecon Acclaim Axial 18-34°	8x Gel frame	600
6	Selecon SPX Zoomspot 15-35°	4x Gel frame 2x Gobo	600
8	Selecon Pacific 23-50°	8x Gel frame	1000
8	Par64 MFL		1000
8	Par16 Birdie		50
10	Selecon Hui Cyc 4 Cell	8x Gel frame	500
3	Molefay Duet Blinder		1300

NOTE: changes may not be made to the standard rig without prior permission from the venue.

FOLLOWSPOTS

QUANTITY	TYPE	ACCESSORIES	WATTAGE
2	Selecon Performer Followspot	The following gels come as standard: L201, L204, L152, R132, R119	1200

ATMOSPHERE & EFFECTS

QUANTITY	TYPE	NOTES
1	MDG ATMe Haze Machine	DMX Controlled
2	JEM ZR-25 Smoke Machine	DMX Controlled
2	H-SW3000 Low Fogger	DMX Controlled
1	600mm Mirror Ball	Non-DMX Controllable

Mineral oil based atmospherics, including but not limited to haze, smoke, and fog, are not to be used at The National Theatre under any circumstances, no exceptions.

AUDIO

CONTROL

QUANTITY	EQUIPMENT	POSITION	ACCESSORIES
1	Midas M32 Console	Rear of auditorium, in bio box.	
1	Meyer Galileo 616 Processor	Opposite Prompt side in audio rack.	
1	Mackie 1402-VLZ Pro	Prompt side at Stage Management Desk.	
1	Mac Mini with QLab 4 (shared with Vision)	Prompt side at Stage Management Desk.	1x keyboard 1x mouse 1x monitor

Seats can be held from sale and audio operation can be moved to the following options below if audio operation needs to be outside of the bio box.

Prompt Side of Biox Box: T20-23, U20-22, W21-23

In Front of Bio Box: S20-29, T20-29

Please inform the venue as early as possible if you require seats to be held from sale.

POWER

QUANTITY	EQUIPMENT	LOCATION	WATTAGE
1	Green Power Patch	Prompt Side	2400
1	Green Power Patch	Centre of Auditorium	2400
1	10 Amp Distribution Rack	Opposite Prompt	2400
1	32 Amp 3-Phase Outlet	Opposite Prompt	

SPEAKERS

QUANTITY	TYPE	NOTES
4	Meyer CQ-1P	2x Front of House Left and 2x Front of House Right.
4	Meyer 650-P Sub	2x Front of House Left and 2x Front of House Right.
2	Meyer UPA-1A	Centre Fill; flown.
1	Quest HPI25	Front Fill; placed on front of apron.
2	Acoustic Technologies LG04	Front Fill; placed on front of apron.
4	Quest QM108	Delays.
4	RCF ART 312-A	Foldback wedges. Positioned where requested.

TECHNICAL SPECIFICATIONS

INSTRUMENTS & ORCHESTRAL EQUIPMENT

QUANTITY	EQUIPMENT
1	Steinway Model B Grand Piano
1	Upright Piano
19	Music Stands with Sconce Lights

MICROPHONES

QUANTITY	TYPE
2	Sennheiser e845 wireless handheld microphone
2	Sennheiser e935 wireless handheld microphone
2	Sennheiser e835 wired handheld microphone
2	Sennheiser ewG4 wireless bodypack
2	Sennheiser ew-100 G3 wireless bodypack
2	Jag Audio V6 Headset Mic
4	DPA-4099 clip on microphone
6	SDC Condenser microphone

MICROPHONE STANDS

QUANTITY	TYPE
8	Boom Stand
3	Small Boom Stand
4	Straight Stand

COMMUNICATIONS

QUANTITY	EQUIPMENT	POSITION
1	Clearcom MS-702 Encore Basestation	Prompt Side, Stage Management Desk
1	Clearcom CM-222 Tempest Wireless Basestation	Prompt Side, Stage Management Desk
4	Clearcom RS-601 Single Channel Beltpacks	2x Followspots 2x Spare
1	Clearcom RS-602 Dual Channel Beltpacks	1x Spare
2	Clearcom RS-701 Single Channel Beltpacks	1x Lighting Operator 1x Audio Operator
4	Clearcom CP-222 Tempest Wireless Beltpacks	4x Spare

TECHNICAL SPECIFICATIONS

VISION

CONTROL

QUANTITY	EQUIPMENT	POSITION	ACCESSORIES
1	Mac Mini with QLab 4 (shared with Vision)	Prompt side at Stage Management Desk.	1x keyboard 1x mouse 1x monitor

PROJECTORS

QUANTITY	TYPE	NOTES
1	Panasonic PT-RZ970	Permanently rigged on LX1. Focused to Cyc.

VIDEO RECORDING/BROADCASTING

QUANTITY	TYPE	ACCESSORIES
1	Blackmagic ATEM Mini	1x Quad-view Monitor 1x Dual-view (Preview/Program) Monitor 1x Portable Monitor
1	Atomos Ninja Recorder	
3	Canon XA45 4K UHD Camcorder	3x camera tripods

Seats can be held from sale and reserved for camera option in the following position:

Centre of Auditorium: G21-22, H21-22

Please inform the venue as early as possible if you require seats to be held from sale.

FACILITIES

DRESSING ROOMS

NUMBER	SIZE	FACILITIES
1	19m ²	2x basins, fixed hanging rail
2	22m ²	2x basins, fixed hanging rail
3	22m ²	2x basins, fixed hanging rail
4	6m ²	1x basins, fixed hanging rail

All dressing rooms have chairs, makeup tables and wall mounted mirrors with LED makeup lighting.

BREAKOUT/FLEXIBLE SPACES

ROOM	SIZE	NOTES
Diana Gibson Room	56m ²	The Diana Gibson Room is only accessible via a staircase and is located a floor below stage level.

All dressing rooms, as well as the Diana Gibson Room, receive show relay feeds and Stage Management tannoy announcements.

LAUNDRY

The National Theatre has a small laundry facility located in Dressing Room 1 with the following equipment:

QUANTITY	EQUIPMENT	CAPACITY
1	Euromaid Washing Machine	7kg
1	Euromaid Condenser Dryer	6kg

TOILETS

There is currently 1x male toilets and 1x female toilets located adjacent to the dressing rooms at the rear of the theatre.