



**THE
NATIONAL
THEATRE**
MELBOURNE

Theatre Technical Specifications

**Updated 20/09/2022
V12.2**

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GENERAL

LOCATION

- 20 Carlisle St, St Kilda. (cnr Barkly St and Carlisle St)
- Approximately 5Km from the Melbourne CBD, 150m from St Kilda foreshore, Luna Park and the Palais Theatre and 2mins away from a wealth of fine dining in Acland St.

PUBLIC TRANSPORT

- Light rail No 96 from Bourke St to Acland St
- Tram No 16 from Swanston St to Acland St
- Bus No 246 down Hoddle St and Punt Rd stopping outside the theatre.
- Also buses from Chadstone, Brighton and Southland.
- Trains leave from Balaclava station to Melbourne City CBD.
- Exceptionally good location for hailing taxis and ride shares.



AUDITORIUM

Auditorium steeply raked.
Good sightlines throughout, divided by audience crossover between eighth and ninth row at entrance level.

264 Front area - lounge armchairs
519 Rear area - tip up seats

TOTAL CAPACITY

783 patrons

FOYER

- Main entrance - corner position 148 m²
- Candy Bar and toilets on ground floor.
- Marble staircase leads to the Mezzanine Foyer of 102 m² with access to the theatre.
- A large, enclosed merchandising area/display area or closed off work area.
- Twin stairs lead to upper foyer of 120 m² with licensed bar and toilets.
- Disabled access to the theatre available.



DRESSING ROOMS

Located directly behind the stage

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- 2 22 m²
- 1 19 m²
- 1 6 m²
- 1 Diana Gibson Room- 56 m² (warm up / holding space)
Toilets and shower

LAUNDRY

Located in Dressing Room 1
Euromaid 7kg Washing Machine
Euromaid 6kg Condenser Dryer

LOADING DOCK

Goods Lift - 4000mm (deep) x 2800mm (wide) x 2800mm (high)
3 Tonne Capacity
Doorway to stage – 1565mm (wide) x 4000mm (high)
5 steps up to stage (Ramps available)

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STAGE

STAGE DIMENSIONS (US edge of Pros Arch/DS edge of fire curtain)

| | |
|-----------------------------|---|
| Stage area | 11.015m (D) x 13.730m (W) (36.14ft x 45.05ft) |
| Proscenium Width | 10.562m (34.65ft) |
| Proscenium Height | Centre 5.50m (18.05ft) Sides 5.11m (16.77ft) |
| Wing Space | 2.42m (7.94ft) both sides (stage edge to fly rail barrier.) |
| Stage Tower (stage to grid) | 14.02m (46ft) |
| Orchestra pit depth | 2.13m (7ft) |
| Orchestra pit area | 69.67sqm (750 sq ft) |
| Apron depth @ centre | 4.24m (13.91ft) |
| STAGE FITTINGS | <ul style="list-style-type: none"> 1 House curtain - red, counterweight action 5 Lighting bars 5 sets Black legs 5 Borders 2 sets Black tabs 1 Cyclorama 12 Scenery bars |



FLY TOWER

Single Purchase Counterweight Fly System with an out dead of 12m.
Line 1 to 19 controlled from PS, Lines 20 to 26 from OP. Weight loading from floor only.
Line 26 is the Upstage Limit of the workable Stage Area. Bars are 12m in length.

| Line | Standard Setup | Position | Type | Max Dist. Load |
|------|--|----------|----------------|----------------|
| | US edge of Pros Arch/DS edge of fire curtain | 0.00m | | |
| 1 | House Curtain | 0.53m | N/A | |
| 2 | Legs 1 / Border 1 | 0.73m | Flat Truss | 160 Kg |
| 2A | | 1.00m | Flat Truss | 190 Kg |
| 3 | LX – 1 | 1.36m | Flat Truss | 190 Kg |
| 4 | | 1.72m | Flat Truss | 160 Kg |
| 5 | | 1.93m | Flat Truss | 160 Kg |
| 6 | Mirror Ball 600mm (24inch) | 2.28m | C.H.S. | 160 Kg |
| 7 | Legs 2 / Border 2 | 2.66m | R.H.S. | 190 Kg |
| 8 | Black Scrim *** | 3.20m | Flat Truss | 160 Kg |
| 9 | LX – 2 | 3.75m | Flat Truss | 190 Kg |
| 10 | Black Tab (MS) | 4.19m | R.H.S + Track | 190 Kg |
| 11 | Legs 3 / Border 3 | 4.48m | R.H.S. | 160 Kg |
| 12 | | 5.01m | C.H.S. | 160 Kg |
| 13 | | 5.67m | C.H.S. | 160 Kg |
| 14 | LX – 3 | 6.17m | Flat Truss | 190 Kg |
| 15 | | 6.69m | Flat Truss | 160 Kg |
| 16 | | 6.92m | Flat Truss | 160 Kg |
| 17 | Slash Curtain *** | 7.16m | Flat Truss | 160 Kg |
| 18 | Legs 4 / Border 4 | 7.39m | R.H.S. | 160 Kg |
| 19 | Black Tab (US) | 7.68m | R.H.S. + Track | 190 Kg |
| 20 | LX – 4 | 8.20m | Flat Truss | 190 Kg |
| 21 | | 8.69m | Flat Truss | 160 Kg |
| 22 | LX – 5 / Legs 5 / Border 5 | 9.17m | Flat Truss | 190 Kg |
| 23 | | 9.73m | Flat Truss | 160 Kg |
| 24 | Smother *** | 10.12m | C.H.S. | 160 Kg |
| 25 | Star Cloth *** | 10.68m | C.H.S. | 160 Kg |
| 26 | CYC | 10.92m | C.H.S. | 160 Kg |

Refer to Fly Bar Safe Loads for point and span loading information **RED = non-Moveable.**

R.H.S. is 65mm tall x 35mm wide x 3mm thick

*** Subject to availability & may incur costs

C.H.S. is 48mm diameter x 4.8mm thick

** Bars & items may move lines without notice**

Flat Truss is 300mm Heavy Duty Alloy Truss

LIGHTING

| | | | |
|--------------------------|--------------|---|---------------------------|
| CONTROL | 1 | ETC Nomad 6144 outputs (12 universe) | |
| | 2 | 48 channel Jands Link Light DMX to analogue converters | |
| | 1 | Dual Isonode DMX 512 network – Inputs – Control Booth, PR side of stage Outputs – FOH, 3x PR side of stage, OP side of stage, Dimmer room DMX Splitters @Stage level OP and Gantry OP ARTNet from OP gantry to Lx bars 1 – 4 (Universe 3 – 6) | |
| | | | |
| POWER | 79 | 2Kw JTM analogue dimmers | |
| | 17 | 5kw JTM analogue dimmers | |
| | 204 | lighting points to patch board and dimmers Refer to “NT - Theatre Patch Outlets.pdf” | |
| | 1 | 32A 3-phase outlet in dimmer room | |
| | 1 | 32A 3-phase outlet on prompt side of proscenium | |
| HANGING POSITIONS | 4 | lighting bars | |
| | 1 | CYC lighting bar | |
| | 8 | movable booms on stage (4 per side) | |
| | 2 | lighting bars over auditorium | |
| | 2 | fixed perches in auditorium | |
| | 4 | movable booms in auditorium | |
| | 1 | fixed 3m bar with patch points over proscenium arch | |
| FIXTURES | 2 | Selecon Performer Followspots (MSR1200) | |
| | 20 | Strand Pattern 23 20°Profiles (500w) B size gobo holder available | |
| | 4 | Strand Pattern 123 16-40° Fresnels (500w) | |
| | 16 | Strand Pattern 743 15-82° Fresnels (1000w) 8x Barndoors available | |
| | 2 | Strand Pattern 223 15-55° Fresnels (2000w) | |
| | 16 | RGBA 8° LED Parcans | |
| | 8 | Proshop RGBW Quad-18 45° LEDs | |
| | 16 | Par64 240v Parcans (1000w MFL) | |
| | 18 | Selecon Acclaim Axial 24-44° Profiles (600w) M size gobo holder available | |
| | 10 | Selecon Acclaim Axial 18-34° Profiles (600w) M size gobo holder available | |
| | 12 | Selecon Pacific 23-50° Profiles (1000w) B size gobo holder available | |
| | 5 | Selecon Pacific 14-35° Profiles (1000w) Iris & B size gobo holder available | |
| | 6 | Selecon SPX 15-35° Profiles (800w) B size gobo holder available | |
| | 6 | Prolite PR10 22-40° Profiles 22-40 (1000w) | |
| | 6 | Prolite PR10 7-63° PCs (1000w) 2x Barndoors available | |
| | 12 | Selecon Acclaim 6-60° Fresnel Barndoors available | |
| | 5 | Selecon HUI 4-cell CYC Floods (500W) | |
| | 5 | Selecon HUI 4-cell Ground Row Floods (500W) | |
| | 1 | Strobe (DMX) | |
| | 8 | Par16 MR16 Birdies (50w) | |
| | 1 | Molefay Duet Blinder | |
| | OTHER | 2 | GEM ZR-dmx Smoke Machines |
| | | 1 | 24” Mirror Ball |

The standard LX plan is available for download at:
<http://nationaltheatre.org.au/venue/>

AUDIO

| | |
|-------------------------------|--|
| CONTROL | <ul style="list-style-type: none"> 1 Midas M32 Digital Console 1 Mackie 1402-VLZ Pro Console (Prompt side stage) 1 QLab system |
| SPEAKERS | <ul style="list-style-type: none"> 4 Meyer Sound CQ-1p 4 Meyer Sound 650p 4 Meyer Sound UPA-1a (Infill/Sidefill) 2 Meyer Sound UPJ-1p (Centre Fill) 4 Meyer Sound UPJ-1p (Delays) |
| FOLDBACK | <ul style="list-style-type: none"> 1 MC2 T1000 power amp 2 QM108 High Powered 8" speakers flown on LX1 2 QM108 High Powered 8" speakers flown on LX3 4 RCF ART 312-A Mk III |
| EQUIPMENT | <ul style="list-style-type: none"> 2 Sennheiser 835 handheld microphones 1 BSS AR-133 Single Channel Active DI 2 Microphone stands – boom 2 Microphone stands – straight 2 Microphone stands – table 2 Sennheiser ew300 G3 e-845 handheld radio microphones 2 Sennheiser SK 100 G3-A Bodypack Transmitter (JAG IMX6A- Large Headset) 2 Sennheiser Radio Receivers <p>All requirements can be met by request</p> |
| MULTICORES / TIE LINES | <ul style="list-style-type: none"> 32/8 XLR (with passive split) sends from OP. to Control Booth with 8 returns 20/6 XLR (with passive split) sends from PR. to Control Booth with 6 returns 12/4 XLR sends from Orchestra Pit to OP. 6 XLR sends from PR. to OP. 4 XLR returns from OP. to Apron OP. w/Green Sound Power 4 XLR returns from OP. to Apron PR. w/Green Sound Power 4 flown XLR sends from Line 2A bar to OP. 4 flown XLR sends from Legs 3 (Line11) to OP. |
| HEARING ASSISTANCE | <ul style="list-style-type: none"> 1 PhonicEar Easy Listener PE550T Transmitter 8 PhonicEar Easy Listener PE 300R Receivers 4 Headphones to suit PE 300R 4 Neckloops to suit PE 300R |
| COMMUNICATIONS | <ul style="list-style-type: none"> 1 ClearCom MS-702 Encore Master Station 4 ClearCom RS-601 Single Channel Beltpacks 1 ClearCom RS-602 Dual Channel Beltpack 1 ClearCom CM-222 Tempest Wireless Base Station 4 ClearCom CP-222 Tempest Wireless Beltpacks 4 ClearCom CC-40 Single Ear Light Weight Headsets 4 Beyer Dynamic DT-108 Single Ear Headsets 2 Beyer Dynamic DT-109 Dual Ear Headsets 1 ClearCom HS-6 Telephone Style Handset (<i>reserved for audio operator</i>) |

*Comms lines @Sound Control; Lighting Control; OP & PR @proscenium & flies; C

Auditorium.

AUDIO / VISUAL

| | |
|--------------------|---|
| PROJECTOR | Panasonic PT-RZ970B 10k ANSI Lumen DLP/Laser |
| A/V TIE LINES | 5 Composite video feeds from OP to Control Booth (BNC) 1 Composite video from C Auditorium to Control Booth (BNC) |
| SDI TIE LINES | Limited lines available – please check with Venue |
| Cat5 UTP TIE LINES | 4 OP to Control Booth 4 OP to Roof Space 4 OP to C Auditorium 4 OP to Orchestra Pit 4 OP to Prompt 4 OP to OP Gantry |

OTHER

| | |
|-------------------|--|
| FLOORING | Black Masonite floor is standard Black Tarkett dance floor is available |
| AUDITORIUM CENTRE | 1 Green Power 2 XLR returns to Control Booth 1 Composite video to Control Booth (BNC) 1 SDI to Control Booth 4 Cat5 UTP Tie Lines to OP. 1 Comms Line |
| PIANO'S | 1 Steinway Model B (211 cm) Grand 1 Orchestra Pit Piano – Upright |

ADDITIONAL CHARGES APPLY FOR ALL EXTRA:

| | | |
|----------------------|----------------|-------------------|
| - lighting equipment | - AV equipment | - audio equipment |
| - lamps | - gobos | - gels |
| - comms | - headsets | - consumables |