



Hickson Road,
Walsh Bay
**Technical and Production
Information**

Sydney Theatre Company
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The information contained in this document is based on
current information.

While every effort is made to be as specific as possible
some changes will no doubt occur.

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GENERAL INFORMATION

Sydney Theatre is a medium sized proscenium arch theatre, particularly suited to medium scale dance, dramatic and musical productions. The walls and floor of the auditorium are timber, stained dark blue. The seats are made of birch timber and upholstered in dark blue fabric. The auditorium ceiling is plaster and prohibits any penetrations or attachments.

Seating

The maximum seating is 896. When the optional stage extension / orchestra pit is in use, the seating capacity is reduced by 41.

Accessibility

The Theatre auditorium and backstage areas are wheelchair accessible.

Load-in Area

The loading dock is accessible by articulated vehicles reversing in from Hickson Road. Max Headroom: 4.4 metres. Dock leveller is available. A second parallel loading directly to and level with stage is also available (shared) and extends from dock along ground level passage measuring some 35 metres, turning left to stage another 15 metres to STAGE RIGHT (OP). The second loading has restricted headroom of 2.4m. Sydney Theatre stage is located at ground level.

Direct entry to stage is also available from Hickson Rd at street level via double doors up-stage LEFT (PS) measuring 3 metres in width by 4 metres high. NOTE: This entry and exit will be subject to restricted use by application to Sydney Theatre Technical Management.

Parking

There is no parking space allocated to the theatre and all vehicles must be taken off site.

Workshop Space

The Theatre has minimal workshop space, however support staff may be available to assist with emergency repairs.

Storage Space

There is very little storage space in the Theatre. Scenery may be installed in the theatre and remain for the season, however there is little provision for storage beyond this. Empty roadcases etc. may be required to be taken off-site.

STAGE SPECIFICATIONS

The proscenium arch is adjustable by means of a black teaser and tormentor system, giving an opening width from maximum 12m wide & 7m high to a minimum 10m wide & 5.5m high. DS of the false proscenium there is a decorative false proscenium, with a set 12m wide & 8m high opening. The decorative proscenium is a concave quadrant in charcoal grey with slatted detail. It contains concealed cove lighting, controllable from the lighting console.

Stage Dimensions

Adjustable Proscenium Teaser and tormenters in black

Maximum opening

Height	7m
Width	12m

Minimum opening

Height	5.5m
Width	10m

Decorative Proscenium opening

Height	8m
Width	12m

Structural Proscenium opening

Height	10m
Width	14m

Stage Width

Between side walls DS #23	21800mm
Between Fly Galleries	18600mm
Apron	12m
Stage extension / pit	13m (downstage)

Stage Depth

Apron to Setting Line	1070mm
Apron to last fly set	12.4m
Apron to stage extension / pit	2m @ sides to 3m @ ϕ (Curved)

Stage Heights

Above auditorium floor	1.2m
Stage to Grid	21.290m
Stage to Sub-stage floor	3750mm
Stage to underside of fly gallery #1	8m
Stage to underside of fly gallery #2	14.6m
Stage to underside of Juliet balconies PS & OP #1	2.85m
Stage to underside of Juliet balconies PS & OP #2	5.6m

Stage Floor

Surface

Timber framed floor – on neoprene pads – demountable portion off steel frame – 2 layers of 15mm plywood stretcher-laid – hardboard (6mm Masonite) overlay.

Demountable portion 12m x 8.9m is 2.1m US of apron (800mm US of Setting line)

Traps etc

Access to sub stage may be cut into the stage by arrangement. Please note that stage must be made good, at hirer's cost, immediately following the season.

Tarkett (Vinyl Dance Floor)

HARLEQUIN STUDIO covering (black) for stage and for Richard Wherrett Studio are available by arrangement.

Stage Rake

0 degrees (flat)

Maximum Loading

7.5kPa

STAGE MACHINERY

Stage Extension or Orchestra Pit

There are three separate platforms that can be moved as one unit or as three individual units. The SERAPID lifting system is based on rigid chain technology. Each lift will support a static load of 7.5kPa uniformly distributed and withstand a maximum point load of 10kN. Maximum rated total safe working load of 6 tonnes for centre section and 3 tonnes for each side section. Fixed speed of 2.5 m per minute.

Means are provided to lock 3 lifts together for operation as one lift corresponding to presets of the centre lift.

Total vertical travel is approx 3890mm.

NB; Lifts are not intended for use during performance.

There are 5 preset stopping positions:

Stage Level + 200mm	R.L 3100mm	As forestage ext'n with built-up stage.
Stage level	R.L 2900mm	As forestage extension
Auditorium Level	R.L 1700mm	As Main Floor (With seating)
Orchestra Pit	R.L 400mm	As working Orchestra Pit
Understage	R.L -790mm	Also chair store level

One extra programmable stop position spare included

Control is stage mgr's panel DSPTS, portable pendant or at front panel lift switchgear cabinet at understage level.

Platforms

Centre Lift	6m wide @ stage apron
PS & OP lifts	2.8m wide @ stage apron
Depth	3m @ centre, 2m @ ends (curved DS face)

Flying System

Sydney Theatre has an extensive power flying system by Stage Technologies. The system is operated by Stage Technologies modular axis system combined with a Nomad Console complete with 3D graphical simulation of cues. The Nomad console is usually situated DSOP on the lower gallery but is re-locatable, by arrangement, to operating positions on the other galleries. A Siemens riggers' control, able to control 4 axes simultaneously can be operated from stage level.

Battens

Each main stage scenery batten is 17.100m long, of 75 x 50 x 3.2 RHS.

*Battens over forestage are 13.700m long.

54 sets @ 200 centres over main stage	20,500mm to underside of battens
*6 sets @ 200 centres over forestage	TBCmm to underside of battens
4 sets for panorama bars (2 each side)	TBCmm to underside of battens

Each with a safe working load of 500Kg evenly distributed and 6 suspension lines per set

Point load maximum 150kg at any position on batten.

10 off spot hoists, (2 lines each 200mm apart) (vertical drop at any point of grid, Operated through Nomad console.)

Each with a safe working load of 250Kg

Variable speed:

Min 0.05m to 2.0m per second @ 250Kg

Min 0.05m to 0.5m per second @ 500Kg.

Spacing

The spacing between each line is 200mm. NB; positions of head blocks are not adjustable.

Hanging Plot

See addendum #1

STAGING EQUIPMENT / ACCESSORIES

A range of staging equipment and accessories are available for use in Sydney Theatre.

House Curtain	Flown and / or French action – NOMAD controlled Blue Velvet
Drapes (Black wool serge)	6 flat borders 20m x 6m 6 pairs flat legs 4m x 10.5m 2 flat smothers 17m x 10.5m 1 pair flat tabs 10m x 10.5m 1 pair tabs (50% fullness) 10m X 10.5m Black sharkstooth gauze 17.1m x 10.5m White (Bleached) sharkstooth gauze 17.1m x 10.5m Cream front / rear projection cyclorama 17.1m x 10.5m {2 nd Cream front / rear projection cyclorama (slight water damage – Useful as bounce) 17.1m x 10.5m}
Orchestral Furniture	10 chairs 10 music stands with sconce lights.
Lectern	Sydney Theatre hardwood lectern
Chairs	Various assorted
Trestle Tables	6
Dressing Mirrors with Lights	2 (portable)
Full Length Dressing Mirrors	2 (portable)
Wardrobe Racks	8 (portable)
Scenery Trolleys and Dollies	Various
Wire rope making	2mm, 4mm & 6mm flexible steel wire ropes can be swaged on site at hirer's cost.

STAGE LIGHTING FACILITIES

Control

The lighting control room is situated at the rear of the dress circle.

Console: Strand 520i (1000 channel / 500 attributes, CommuniquéPro, Tracker, Networker and Lightpalette / Genius Pro, 2 x SVGA monitors)

Remote/Backup Console: Strand 520i (1000 channel / 500 attributes, CommuniquéPro, Tracker, Networker and Lightpalette / Genius Pro, 2 x SVGA monitors)

Network Node: 3 x Strand SN110

Riggers control: Strand Designers Remote Control.

DMX512 Patching: three streams hardwired patching to various parts of the stage and auditorium.

Ethernet Patching: Single network of hardwired patching to various parts of the stage and auditorium.

RF DMX and Ethernet onstage

Power

All general and dimmed electrical power supplies are 240V AC @ 50 Hz.

40amp and 20amp 3 phase power outlets are located on each side of stage: on-stage, at substage, at both gallery levels, above grid and on auditorium Lighting bridges.

20amp 3phase outlets are also located at the production desk and sound operating pit positions in the auditorium.

Dimmers

All dimmers are JANDS HP 12SC & HP 6 SC dimmers, rated at 2.5kW and 5kW respectively.

There are 2 dimmer rooms:

Understage Level (Dimmer Room 1):

Jands HP 5kW Dimmers	36
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Level 3 (Dimmer Room 2):

Jands HP 5kW Dimmers	72
Jands HP 2.4kW Dimmers	492

Portable dimmer racks:

Jands HP 6 SC 5kW 6 way Dimmer Racks	4
Jands HP SC 2.4kW 12 way Dimmer Racks	12

House Lights

House lighting is provided by low voltage dichroic units. These are flush mounted in the auditorium ceiling. Decorative fibre optic lighting creates a 'star' effect on the auditorium walls and a 'glow' on ceiling panels. The decorative proscenium arch has concealed cove lighting.

House lighting control is through the lighting console.

Manual override of the House lighting can be achieved from Prompt Corner, lighting control room and FOH office.

Lighting Positions

	2.4K Dimmers	5K Dimmers
FOH 1 - Bridge 1	30	6
FOH 2 - Bridge 2	40	6
FOH 3 - Bar (rear dress circle)	24	6
FOH Circle bar	47	6
FOH Low Boxes Bar L&R	20	0
FOH High Boxes Bar L&R	16	0
FOH Box Booms	72	0
Juliet Perches	36	0
Panorama Bars	0	0

Overhead Lighting Battens

All scenery battens are capable of being used for lighting bars. Please see **Stage Machinery for maximum load ratings**

Pre-wired lighting battens (E-bars):

3.5m x 48mmOD pipe with 10 x 10A + 2 x 20A dimmable circuits	24
Re-locatable multi-core cable reelers for E-bars (located at Grid level)	24

Ladders:

3m x 1m with adjustable rungs	6
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LIGHTING EQUIPMENT / ACCESSORIES

Luminaires

ETC Source 4 10° fixed beam profiles 750w (b size gobo)	20
ETC Source 4 26° fixed beam profiles 750w (b size gobo)	50
ETC Source 4 19° fixed beam profiles 750w (b size gobo)	50
ETC Source 4 36° fixed beam profiles 750w (b size gobo)	50
Selecon Pacific 90° fixed beam profiles 600w (a size gobo)	10
Selecon Pacific zoom profile 5.5-13° 800w (a size gobo)	20
Selecon Pacific zoom profiles 12-28° 600w (m size gobo)	60
Selecon Pacific zoom profiles 23-50° 600w (a size gobo)	40
Selecon HP 7" 1.2 k PC 7-56°	40
Selecon HP 7" 1.2 k Fresnel 20-60°	40
Selecon HP 10" 2k PC 4.5-60°	30
Selecon HP 10" 2k Fresnel 8-60°	30
Strand Studio 5k Fresnel 12-60°	6
PAR 64 (Litecraft with scroller bar)	40 (MFL, NSP, VNSP)
PAR 64 240 cans	20 (CP60, CP61, CP62)
Cyc ground row (Strand Orion)	9
Cyc units (Strand quad)	9
Follow Spots (Robert Julliat "Korrigan")	2

Lighting Accessories

ETC Source 4 b size gobo holders	30
ETC Source 4 irises	14
Selecon a size gobo holders	20
Selecon b size gobo holders	20
Selecon m size gobo holders	10
Selecon Pacific Irises	16
Rosco 1700 Fog machine	1
MDG Atmosphere Haze machine	1

SOUND AND AUDIO VISUAL FACILITIES

The main reinforcement system in standard configuration is L,C,R with fill and delays electronically tuned and delayed to deliver 110db SPL evenly throughout auditorium

Multi pin outlets, 1 x upstage, 1 x orch pit, 1 x op and 1 x prompt all 16 channels to substage patch point to 32 lines at mix position.

Returns x 8 at prompt corner via sound web 9008 + 4 unprocessed lines from mix position via amp rack.

Loudspeakers

FOH centre – Meyer UPJx2 – on fly line #201,DS of Prosc

FOH - L & R - Meyer CQ1s – on fly line #201, in front of decorative proscenium

Top Boxes fill - L & R – EAW JF 50 – Box Boom -Top

Front fill – Meyer MM4 – 6 Units Spaced Along Stage Apron in left right or inner outer configuration(relocatable to Orchestra lift fronts when used as thrust stage.)

Stalls surround –EAW JF 50S – Side walls of auditorium

Balcony Delay - Tannoy T300 – spaced under Lx bridge #2 (inner outer)

Sub woofers – Coda/ Arup custom array - ϕ Auditorium roof DS of Prosc.

Stalls Under balcony Fill – Bose model 32- Spaced Under Dress circle

Spot Effects – 4 x Meyer powered UPJ,

1X Meyer CQ1,

4 x EAW JF80 available

Amplifiers

Com Tech 410 – Powering the stage front fill and rear stalls delay

Macro Tech 1202 (x 2) - Powering 4x channels of potential FX or Spot speakers

Macro Tech 2402 (x 3) – Powering Subs and Circle Delays

Yamaha XM 6150 – Powering the JF 50 fill speakers located throughout the auditorium

Sound Control Room

The control room is located at the rear of the auditorium behind acoustically isolated windows. The console is a **Midas Venice 320 24ch/4/4 Input, or DM1000 32 ch. with 8 in 8 out Adat**. For events requiring active mixing the windows can be removed and the desk positioned at the rear of the stalls. Alternatively, there is a remote mixing pit at centre of the stalls below the line of the circle gallery front. Use of the pit requires the removal of 14 seats; M14-21, N14-21. The pit is sunken into the auditorium so sightlines from the seats behind are not affected when sound control is set there. A smaller **Midas Venice 160 8ch/4/4 Input** desk is also available for operation from the stage or from the operating positions detailed above.

Microphones (Available as additional hire)

Shure Beta 58 A – General Purpose Vocal x 4

Shure Beta 57A – General Purpose Instrument x 4

Neumann KMS 105mt – High Quality Vocal Condenser x 2

Shure SM81 - High Quality instrument Condenser x 2

Audio-Technica AT815b – Long shotgun condenser x 2 Short shotgun condenser x 2

2 x frequency agile Sennhieser Evolution series Radio mics 1 x Handheld, 1 x Lapel

4 x Crown PCC 160 boundry mics

Processing Equipment

BSS Soundweb 9098 (In house System controller with 8 input options)

BSS Soundweb 9008 (3 x Slave units with 24 outputs)
DBX 166A Compressor/ Limiter stereo unit
DBX 2031 Graphic Equalizer (single channel) x 2

Playback

AW4416 Professional Audio Workstation
Denon630 Cd Player X 2
Tascam Da20 Mk11 DAT recorder X1
SFX digital playback/ control software
Stealth audio computer duel 3g
Marantz Dual Tape and Minidisk playback Device

Music Stands with sconces

10 x Music stands + lights are available by arrangement.

Video Monitors, Video Replay, Projection

A small amount of equipment is available for hire by arrangement with ST Tech Mgt.

Closed Circuit Television

CCTV cameras are located;
FOH (Front view of Stage)- feeds SMD, BOH and Foyer monitors
Orchestra Pit (Conductor)- Feeds SMD monitor
Fly Galleries PS & OP Views of fly-tower – Low-light capability - Feeds Fly operator monitors
Assorted TV monitors available

Stage Manager's Desk

The SMD is relocatable to positions either side of the proscenium. Audience, foyer and backstage paging are operated from the desk. Headset communication and cuelights are operated from the SMD. 2 x CCTV monitors are provided.

Headset Communications

Wired headset outlets are provided throughout the stage and technical areas.
8 x Radio headsets are available. ST Head Mechanist, Head Flyman and Head Electrician will each require use of one of these during performance.

RECORDING AND BROADCAST FACILITIES

Professional Audio Recording

Please note that any recording is subject to Sydney Theatre approval. Fees and staff allowances may apply.

Archival Video Recording

Please note that any recording is subject to Sydney Theatre approval. Fees and staff allowances may apply.

Professional Video Recording

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Outside Broadcast

There are OB van points at the entrance to the loading dock:

Each van point is equipped with;

40amp 3phase outlet

63amp 3 phase outlet

Data and DMX outlets

Comms outlets

Presenters are encouraged to examine the OB facilities on-site before committing to an OB design.

BACKSTAGE FACILITIES

Dressing Rooms

The Theatre has 8 x 4 person dressing rooms , each with toilet and shower facilities.

Portable beds, linen and towels are available on request.

The 'Orchestra Assembly room is located at basement level and accommodates up to 20 musicians.

Wardrobe Area

There is a wardrobe, hair and make-up room adjacent to the dressing rooms, close to the actors' stage entrance.

The laundry and wardrobe maintenance rooms are accessed from the passage which connects the stage door to the dressing room area. The laundry is equipped with 2 industrial washing machines, tumble driers, a steamer and ironing facilities. Arrangements for dry-cleaning can be made with ST Technical Management, using our preferred contractor. The wardrobe maintenance room is equipped with costume rails, a sewing machine, cutting table and basic dressmaking equipment.

A limited number of portable wardrobe racks are available on request.

Presenting Company Production Office

An office is provided for visiting Company/ Production/ Stage Management. The office is located on level #1. The room is equipped with telephones and analogue lines to connect modems, a printer/ fax machine is provided

Green Room

The Green Room is located one level above the Theatre stage. It is for the exclusive use of artists, crew, staff and their visitors. All visitors must be signed in at Stage Door and escorted to the Green Room by the host artist. Basic food and beverage preparation equipment is provided. Hirers are asked to keep the green room kitchen area clean and wash-up used crockery/ cutlery.

Rehearsal Rooms

The Richard Wherrett Studio is located at the end of the Scenery Storage area and is accessible from the Scenery Store, dressing room corridor and ground level foyer areas.

The room is equipped with a basic static lighting grid. The Northern wall of the room is mirrored with ballet barres. The mirrors can be covered using tracked drapes. A vinyl dance floor is available (Harlequin Studio)

The rehearsal room is 13m x 11m, mimicking the playing area of the stage.

The Rehearsal Room and the Ruth Cracknell Room (Function Room) on level #1 of the backstage area may be used for warm-ups etc. subject to availability.

Any installation of scenery into the rehearsal room must be approved by ST Technical Management.

Security

All access to backstage is via Stage Door, located at the far end of the loading dock corridor.

Stage door can be manned, at hirer's expense, if required. A stage door attendant is mandatory if the visiting company comprises in excess of 12 people.

Security in the theatre is monitored by a system of movement sensors and closed circuit video cameras.

Access is controlled by a combination of key and swipe card activated door locks. Keys and swipe cards allowing area specific access will be issued to users of the theatre as required. Prior notice of names and duties of personnel needing access is required, in order that cards and keys can be prepared for collection on arrival. A replacement fee will be charged for any keys or swipe cards not returned.

Guests must be collected and signed in at Stage Door by their host and remain in the company of the host at all times. For safety and security reasons, guests are not permitted on the stage, side-stage, sub stage or in the auditorium without prior arrangement with Sydney Theatre staff. Swipe card controlled doors will sound a shrill alarm if held open for too long. Please see Sydney Theatre staff to temporarily disarm these alarms should a door require to be held open for the passage of goods etc.

HOUSE RULES

All users of Sydney Theatre must;

- Agree to comply with Sydney Theatre's Occupational Health and Safety Policies. (Attached)
- Provide risk assessment documentation for any identified hazards, which relate to any part of the production or intended activity in Sydney Theatre. (Risk assessment forms can be obtained from Sydney Theatre Management.)
- Provide risk assessment documentation and Material Safety Data Sheets (MSDS) for any hazardous substances to be used in Sydney Theatre. Including but not limited to; Smoke effects, pyrotechnic effects, flame, cigarettes smoked on stage, paint and scenic treatments, dust, water.
- Ensure that any electrical equipment brought into Sydney Theatre is safety tested and bears a current tag as approved by Workcover NSW. (Sydney Theatre can provide testing and tagging services at the hirer's cost.)
- Ensure that any flammable equipment/scenery brought into Sydney Theatre is treated with an appropriate fire retardant and that MSDS documentation regarding the fire retardant treatment is provided.
- Not operate any Sydney Theatre equipment without approval from Sydney Theatre Management.
- Not smoke any substance on the premises.
- Not eat or drink on the stage or side-stage areas.
- Enter and exit the building by The Stage Door. Access to the backstage areas through Front of House areas is not permitted.
- Not enter areas designated; "Authorised Personnel Only" without approval from Sydney Theatre Management.
- Seek approval from Sydney Theatre Management for any modifications or penetrations to the fabric of the theatre. Any approved modifications must be restored and made good at the end of the season at the hirer's cost.
- Seek approval from Sydney Theatre Management for any recording, audio and/or visual. Fees and staff allowances may apply.