

THE ARALUEN ARTS CENTRE

THEATRE TECHNICAL SPECIFICATIONS

2024

DIRECTOR: FELICITY GREEN

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Reference points for measurements are:

HEIGHT : Relative to stage floor

DEPTH: Relative to apron of stage

THROW : Relative to centre of apron at 180mm above stage

ANGLE: Relative to horizontal at 180mm above stage

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Mail: PO Box 3521

ALICE SPRINGS NT 0871

Address: 61 Larapinta Drive

ALICE SPRINGS NT 0870

THEATRE DIMENSIONS

Proscenium	Width Height	12.930 metres 6.745 metres
Stage Width	Wall to wall Centre Line to PS wall (c'weight frame) Centre Line to OP wall	21.40 metres 9.95 metres 10.70 metres
Stage Depth	Apron to rear of Proscenium wall Apron to rear of fire curtain guides Apron to House Curtain line Apron to line 1 Apron to line 60 (last c'weight set) Apron to back wall	0.620 metres 0.820 metres 1.020 metres 1.265 metres 10.415 metres 11.615 metres
Stage Height	To underside of headblock steels To underside of grid floor To underside of grid steels To loading gallery floor To underside of fly floor Floor to batton (out dead) Floor to batton (in dead) Drift	18.68 metres 16.68 metres 16.47 metres 15.35 metres 6.740 metres 16.30 metres 00.65 metres 15.65 metres
Width between Fly Galleries		17.70 metres
Stage Floor	Tempered Masonite screwed over Pinus Radia No level change No rake Load rating	ta floor, full width. 750 kg/sq m
Stage Trap	5.72 metres upstage of apron on centre line. 2 halves each 860mm deep x 700mm wide. Total opening available unobstructed is 860 mm deep x 1500mm wide.	
Orchestra Pit/Lift	The theatre has a 3 position (pit/auditorium/stage) trapezoid shaped orchestra pit/lift, which extends from the stage apron to 2.490 metres into the auditorium. Along the upstage edge the lift is 10.690 metres wide; along the downstage edge it is 6.500 metres wide. Lift floor at auditorium level = stage -0.830 metres Lift floor at full pit level = stage -2.690 metres Max. Working load = 8 Tonne. Max. Floor loading = 750 kg/sq. m. Max. Point load = 1100 kg/sq. m.	
Juliet Balconies	2.4 metres above stage level, over forestage access doors. Concealed when not in use by two sets of bifold doors, each set 1.2 m wide x 2 m high. The doors conceal a proscenium perch lighting position.	
Forestage Access	Doors either side of the proscenium arch gives access to forestage. 1.2 m wide x 2.4 m high.	
Stage Access Door	To Loading Dock Height Width Maximum Diagonal	6.55 metres 2.40 metres 6.90 metres

Araluen Arts Centre, Alice Springs Theatre Technical Specifications

Loading Dock Ceiling Height - Maximum 12.20 metres

Minimum 4.90 metres

Floor space available 110.00 sq metres

Loading Dock Access Door

Height 3.20 metres (External) Width 2.40 metres

Maximum Diagonal 4.00 metres

Vehicle Access to Loading

Bay

Enter via Larapinta Drive and use western loop road to loading bay. Dock is 1.2 metres above driveway level. Loading bay is covered and will accommodate vehicles to

4.5 metres in height.

STAGE MACHINERY

45 of 60 single purchase 5 line counterweight sets installed on P.S. Counterweight System

See hanging plot for spacing of lines. All lines have a WWL = 500

kgs.

Cradle Capacity Single cradle (no extender cradle fitted) maximum lift is 395kgs,

including bar weight. With cradle extenders fitted maximum lift is

500 kgs, including bar weight.

Standard Batten Steel Pipe - 48mm O.D. Length - 16 metres

Fly line pickups 5 lines per bar: pickups @ Centre, then 3600mm & 7200mm to OP

& PS

Fire Curtain Semi rigid sheet steel construction with motorized winch.

House Curtain: Variable speed motorized single axis hoist with Jands SAX-P1

controller controlled from Prompt Corner.

Can also be operated as a motorised French action tabtrack controlled from Prompt Corner and from Control Room. Line

situated 1020mm from apron. Colour: Ochre

Stage Drapery 2 sets Black Velour on manually operated heavy duty

> tab tracks. Each half 8.3m wide 8.3m drop (with fullness) 1 sets Black Velour not on tracks. Each half 8.3m wide 8.3m

drop (with fullness)

Legs: 5 pairs Black Velour each 4.3m wide x 8.2m drop (with

fullness)

Borders: 5 only Black Velour each 16m wide x 3.5m drop (with

fullness)

Teaser: 1 only Black Velour 16m wide x 3.5m drop (Flat) Cyclorama: 1 only White filled cloth 16m wide x 8m drop.

Scrim: 1 only White Sharks Tooth Gauze 15m wide x 7m drop.

1 only Black Sharks Tooth Gauze 15m wide x 7m drop.

SCENERY / STAGING

Portable Staging

27 x Prostage Portable Staging units. All sections 2.0m x 1.0m with following heights available:

	Theatre	Witchettys	Total
Modular Series Variable Height 800-1200mm	3 Units	0 Units	3 Units
Riser Series Variable Height 400-600mm	8 Units	0 Units	8 Units
Riser Series Fixed Height 400mm	0 Units	4 Units	4 Units
Riser Series Fixed Height 200mm	4 Units	0 Units	4 Units
Riser Series Deck Only	3 Units	<u>5 Units</u>	8 Units
Total	18 Units	9 Units	27 Units

Riser Series Variable Height 1.0m x 1.0m	1 Unit
4m Long Truss Frame 2m Gates for Truss Frame	6 Units 10 Units
1m Gates for Truss Frame	8 Units
2m Guard Rails	8 Units
1m Guard Rails	6 Units
4 Rise Step Unit (+800mm Stage)	2 Units
2 Rise Step Unit (+400mm Stage)	2 Units
Extra Step Unit (+200mm Stage)	2 Units

Dance Floor Colour: Light Grey, 7 rolls 1500mm deep, 1 cut roll to fit Proscenium Arch

Coverage: Full stage

HANGING PLOT - STOCK RIG

Line No		Depth (mm from apron)
	Rear Proscenium Wall Rear of Fire Curtain Guides	0715 0815
HC	House Curtain	1015
1	Teaser	1265
2	Spare	1415
3	Spare	1565
4	Lighting Bar - No. 1	1715
5	SPACE FOR STRUCTURAL SUPPORT	
6	Spare	2015
7	Spare	2165
8	Spare	2315
9	- · · · · ·	Not Installed
10	Border - No. 1	2615
11	Legs - No. 1	2765
12	Spare	2915
13	2	Not Installed
14	Spare	3215
15	Spare	3365
16	Halden Ben N. O	Not Installed
17	Lighting Bar - No. 2	3665
18		Not Installed
19	Spare	3965
20	R2 lighting bar 1	4115
24	SPACE FOR STRUCTURAL SU	
21	Spare	4415
22	Border - No. 2	4565
23	Legs - No. 2 Black Tab - No. 1	4715 4965
24 25	Black Tab - No. I	4865 Not Installed
25 26	Cinema Screen (NOT MOVEABLE)	5165
20 27		5315
28	Spare Spare	5465
29	Spare	Not Installed
30	Lighting Bar - No. 3	5765
31	Lighting Bar - No. 5	Not Installed
32	Spare	6065
33	R2 lighting bar 2	6215
34	Spare	6365
35	Spare	6515
36	Spare	6665
37	opai o	Not Installed
38	Border - No. 3	6965
39	Legs - No. 3	7115
40	9-	Not Installed
41	Black Tab - No. 2	7415
42	Spare `	7565
43	·	Not Installed
44	Lighting Bar - No. 4 SPACE FOR STRUCTURAL SU	7865
45	Spare	8165
46	Cyclorama lighting bar	8315
47	Systema nghang bar	Not Installed
48	Border - No. 4	8615
49	Legs - No. 4	8765
50	Spare	8915
51	opai o	Not Installed
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	Araluen Arts Centre, Alice Springs	Theatre Technical Specifications
F0	Lighting Day, No. 5	0045
52	Lighting Bar - No. 5	9215
53		Not Installed
54		Not Installed
55	Spare	9665
56	Spare	9815
57	Spare	9965
58	Black Tab - No. 3	10115
59	Spare	10265
60	Cyclorama	10415

Please note:

- 1) Legs on above lines give the most effective mask into the wings. The fan shape of the auditorium can make side masking quite difficult. <u>Legs 1, 2 & 3 have returns</u> downstage of approx. 1100 mm.
- 2) In the case of lighting bars, if the distance to the next bar, up or down stage, is 150mm then that bar should be left free. (I.e. for stock rig line 3 should be left free)

LIGHTING

Control Desks	ETC Ion XE 2k

JANDS StageCL

Control Protocols DMX 512

DMX Inlets/Outlets 2 x DMX Loops with inputs/outputs distributed from PS Fly Floor.

DMX IN: Control room & Centre Auditorium.

DMX OUT: Dimmer Rm, OP Fly Floor, Stage - D/S OP, D/S PS, U/S

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OP & U/S PS, and M/S Floor Trap PS & OP.

DMX Splitters 2 x Jands DD8 opto-isolated DMX splitter.

Dimmers Total number of dimmers = 228 comprising:

<u>Dimmer Room</u> (adjacent to fly gallery USPS): 3 x Jands HP12-SCWM (Digital): 2.5 kW 8 x Jands HP6-WM (Digital): 5 kW 3 x Jands HPC12-SCR (Digital): 2.5 kW

OP Fly Floor:

4 x Jands HP12-SCWM (Digital): 2.5 kW 4 x Jands HPC12-SCR (Digital) 2.5 kW 1 x Jands HP6-WM (Digital): 5 kW

PS Stage Rear Wall:

2 kW Robert Juliat 329HF with B/D

1 x Jands HP6-WM (Digital): 5 kW

Extras:

2 x 2.4kW Strand Model 1 Portable Dimmers

1 x Jands 12ch Analog Rack

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Lantern Stock	Fresnels

1.2 kW Robert Juliat 310HF with B/D	60
1.2 kW Selecon with B/D	10
<u>Profiles</u>	
ETC Source 4 15/30 Zoom Profiles	60
ETC Source 4 25/50 Zoom Profiles	20
<u>LED</u>	
ETC S4 LED series 2 Lustr with CYC Adaptor	6
Chauvet Rogue R2 Wash	12
Acme Energy Spot Pro	3
<u>Floods</u>	
1 kW Par 64 with 240v lamp	12
Follow spots	
1.2kW MSD Robert Juliat Topaze with C/Mag	2
Effects Lighting	
U.V. Fluorescent Fittings	4

Accessories A number of iris' and gobo holders are available to suit all profiles

(Aperture diameter 72mm suit size B gobos)	
6m Aluminium Pipe	3
5.5m Aluminium Pipe	4
2m Steel Pipe	8
Base Plates for stage booms	8
Telescopic stands	5
H stands	14

Araluen Arts Centre, Alice Springs Theatre Technical Specifications		
	Boom Arms 56 Steel Scaffold Clamps 90° 10 Steel Scaffold Clamps Swivel 9 Aluminium Scaffold Clamps 90° 11 Aluminium Scaffold Clamps Swivel 2	
Haze Machine	2 x MDG ATMe Haze Generator 2	
Auxiliary Power:	150 amp 3-phase: 2 Outlets for lugged or unlugged termination, located USPS rear stage wall and in loading bay area. NOTE: Only one distribution point can be operated at a time. This supply is	
	currently used to power 6 x 3-phase outlets for dimmers on the OP Fly Floor.	
3 Phase Power:	32 amp 3-phase: 5 pin WILCO WICM 530 outlets are located in Loading Dock, Loading Bay and Orchestra Pit PS. 40 amps 3-phase: Dimmer Room x 5, On Stage x 3 - US OP & PS, DS OP	
Lighting Positions		
F.O.H. Lighting Bridges	No.1 Bridge Width 19.2m Patch outlets: 29 x 10 amp, 4 x 20 amp. Distance from apron 5.45m Height from stage floor to bar: 7.93m Throw to apron at stage floor: 9.65m Angle at apron: 56 degrees	
	No.2 Bridge Width 19.2m Patch outlets: 26 x 10 amp, 4 x 20 amp. Distance from apron: 9.4m Height from stage floor to bar: 7.93m Throw to apron at stage floor: 12.29m Angle at apron: 40 degrees	
F.O.H. Perches	Length 2.6m Patch outlets per side: 7 x 10 amp, 1 x 20 amp. Throw from bottom to apron at centre stage: 12.96m Angle from bottom to apron at centre stage: 20.45 degrees. Throw from top to apron at centre stage: 13.93m Angle from top to apron (centre stage) 29.30 degrees	
F.O.H. Proscenium Boo	(Located within top two doors of the P & OP Juliet Balconies) Height: From Stage +2400 to + 6000m Patch outlets per side: 7 x 10 amp, 1 x 20 amp.	
Stage	There are 5 wired lighting bars which feed to the OP Fly Gallery.	
	LX 1, 2 and 3 24 x 10 amp, 6 x 20 amp circuits	
	LX 4 30 x 10 amp circuits	
	LX 5 11 x 10 amp circuits (single outlets) 4 x 20 amp circuits (single outlets) 4 x 20 amp circuits each with 5 outlets per circuit	

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Patch Panel	203 Lighting outlets fully patchable via a master patch panel in

Dimmer room

Stage Patch Outlets Fly Gallery PS No 1 4 x 10 amp, 1 x 20 amp

Fly Gallery PS No 2 4 x 10 amp, 1 x 20 amp Fly Gallery PS No 3 4 x 10 amp, 1 x 20 amp

Total circuits @ this position 15 circuits

Fly Gallery OP No 1 19 x 10 amp, 1 x 20 amp Fly Gallery OP No 2 14 x 10 amp, 1 x 20 amp Fly Gallery OP No 3 14 x 10 amp, 1 x 20 amp Fly Gallery OP No 4 6 x 20 amp

Total circuits @ this position 56 circuits

Floor Wells PS No 1 4 x 10 amp
Floor Wells PS No 2 4 x 10 amp
Floor Wells PS No 3 4 x 20 amp
Total circuits @ this position 12 circuits

Floor Wells OP No 1 4 x 10 amp
Floor Wells OP No 2 4 x 10 amp
Floor Wells OP No 3 4 x 20 amp
Total circuits @ this position 12 circuits

Forestage Entrance PS 3 x 10 amp
Forestage Entrance OP 3 x 10 amp
Total circuits @ this position 6 circuits

Orchestra Pit PS 1 x 10 amp
Orchestra Pit OP 1 x 10 amp
Total circuits @ this position 2 circuits

Understage PS 2 x 10 amp

Control Room 2 x 10 amp 2 x 20 amp

Total circuits @ this position 4 circuits

Power Distribution 1 x Jands PSD6R Distribution Unit: 6 x 20 Amps distribution unit.

AUDIO EQUIPMENT

Sound Desks <u>Yamaha QL5</u> (situated at Auditorium Mixing Position)

Left, Right and Centre Mix out

Subwoofers and frontfill matrixed off Left and Right outputs

Presonus StudioLive 16 Series 3 Digital Console

Signal Processing FOI

2 x BSS Soundweb BLU-100 DSPs

Foldback

1 x DBX 480R Drive Rack 2 x DBX 480 Drive Racks

Audio Patching Patching provided by an XLR patchbay located in the control room.

66 Individual balanced microphone points located around the stage.

Stage to Control Room: 24 both-way patch field

Theatre Technical Specifications

Control Room to FOH Position: 32 Sends & 16 Returns Control Room to Amp Rack: 7 both-way patch field & 6 Sends

Amp Rack to Control Room Speaker Tielines: 6 Sends

Control Room Mixing Position to Control Room Patch: 16 Sends & 8

Returns

Multi-core 2 x 12 both-way stage box & 20m tail

1 x 12 both-way stage box & 50m tail

1 x 12 way stage box with monitor split (all channels transformer isolated at

mic level) with 10m tail

1 x 6 way stage box with monitor split (all channels transformer isolated at

line level) with 10m tail

1 x 16 send & 4 return multicore @ 20 metres

Speaker Outlets 38 Outlets: 10 FOH, 4 on orchestra lift, 20 onstage, 1 Juliet Balcony

Entrance PS, 1 Juliet Balcony Entrance OP, 1 Fly Gallery PS, 1 Fly Gallery

OP.

Radio Microphones

Shure ULX 6 only Shure ULXP4 Professional Diversity UHF Receivers

6 only Shure ULX1 Body-Pack Transmitters (TA4M connectors) 6 only Shure ULX2 Hand-Held Microphone Transmitter (SM58)

(662.75 to 668.75 MHz)

2 only Shure UA844 Antenna Distribution Systems

Shure UT4 3 only Shure UT4 Diversity Receiver (598.625, 600.800, 606.300MHz)

1 only Shure SM58 UT2 Hand Held Transmitter

2 only Shure UT1 Body Pack Transmitter with TA4M Socket

Shure ULXD 1 only Shure ULXD4Q Quad Receiver L51 Band (632 to 696 MHz)

4 only Shure ULXD2 Hand-Held Microphone Transmitter (Beta58A)

2 only Shure ULXD1 Bodypack Transmitters

3 only Shure SBC200 Dual Drop-In Battery Charger

7 only Shure SB900A Rechargeable Battery

Mic Accessories 2 only Shure WL93 Omnidirectional Subminiature Lavaliere Microphone with

TA4F Plug

8 only DPA 4066-F Omnidirectional Headband Microphones (Beige) with

TA4F Plug

Microphones 1 x Shure Beta 52A

4 x Shure SM57

6 x Shure SM58

4 x Shure Beta 56A

4 x Shure Beta 57A

4 x Shure Beta 58A

2 x Shure Beta 87A

2 x Shure SM99 - 12" gooseneck

2 x Shure MX418/C - 18" gooseneck

1 x Shure Easyflex EZG/18 - 18" gooseneck

4 x Shure MX202B/C

2 x Shure MX393/C Boundary Microphones

2 x AKG SE300B Preamps with CK93 Capsules

2 x AKG C451 B

4 x AKG C451 EB Pre-amp (2 used for program feed)

3 x AKG CK1 Capsules

1 x AKG CK5 Capsule

2 x AKG CK9 Capsules (Shotguns) (Used for program feed)

3 x AKG D330 BT

4 x Realistic PZM

2 x Rode NTG4

Araluen Arts Centre, Alice Springs Theatre Technical Specifications

D.I.s 8 x BSS AR133 Active DIs

1 x Jands Active D.I. 4 x Hux Passive D.I.s

1 x ARX DI-4 Quad DI Box and Line Mixer

2 x Radial ProD2 stereo Di box

Microphone Stands 15 x Sennheiser SEMS 3135 telescopic boom stands

6 x Beyer ST 600 round base upright stands

10 x Beyer short boom stands

3 x table stands

Amplifiers 2 x Crown CTS 3000 (FOH Subs)

2 x Lab.Gruppen FP6000Q (FoldBack)

3 x Crown XLS - 280 power amplifiers (Cinema Surround)

2 x Crown CTS 600 (Spare) 4 x Crown CTS 2000 (Spare)

Speakers F.O.H.

3 x Meyer UPQ-1P Wide Coverage Loudspeakers (Powered)

2 x JBL AL6125 Subs

F.O.H Front Fill

4 x Meyer UPM-1P (Powered) (Mounted in Stage Apron)

<u>Foldback</u>

8 x Nexo PS10 with PS10TD controllers

6 x JBL MP212 Wedges

Cinema Surround 12 x Krix KX-1870

Headphones 1 Pair AKG K 501

ORCHESTRA EQUIPMENT

1 x RAT Conductor's Stand 20 x RAT Orchestra Stands 6 x Black Orchestra Chairs

PIANOS

1 x Yamaha CF Concert Grand - 9ft SN:3750200

2 x Victor VG62 Baby Grands – 5ft SN:045023 & SN:048018 2 x Yamaha U1 Professional Uprights – 4 ft SN:A3833852 & SN:

A3833869

PROJECTION EQUIPMENT

Cinema screen

1 only Harkness matt white screen (1.4 gain) with fixed top masking to maximum picture size:

 Cinemascope:
 8930mm wide x 3800mm high. (2.35:1 ratio)

 Cinema Flat:
 7030mm wide x 3800mm high. (1.85:1 ratio)

 16:9 widescreen:
 6755mm wide x 3800mm high. (1.77:1 ratio)

 4:3 ratio:
 5066mm wide x 3800mm high. (1.33:1 ratio)

Video/Data Projector

- 1 x NEC NC-1200C Digital D-Cinema Projector (2k Res) with GDC SX200A/R IMB & GDC 3TB Server with Touch Screen. Lens NC-60LS19Z 2.5/41.6-71.1mm. Throw Ratio 1.90 3.25:1.
- 1 x Panasonic PT-MZ780 laser projector with standard zoom lens.
- * Please note additional hire charges apply for use of these projectors.

AV Accessories

Computers

1 x Macbook Pro with QLAB4

Audio Interface

Motu828x (USB & Thunderbolt Connection)

Monitors

- 3 x 23inch widescreen monitors (1080p)
- 1 x 24inch widescreen monitors (1080p)

Splitters

- 1 x 4 way DVI Splitter
- 2 x 2 way DVI Splitter

<u>Cable</u>

- 1 x 50m DVI Fibre Optic Cable (Stage to Control Rm)
- 1 x 15m DVI Cable
- 2 x 10m DVI Cable
- 5 x 5m DVI Cable

Conference Phone

Polycom Sound Station Duo VoIP/PhoneLine

DIGITAL VIDEO FORMATS

Araluen's preferred digital formats for presentation in-house are:

<u>For images</u>: JPEG or PNG with a minimum pixel resolution of 1920 wide x 1080 high (16:9 ratio)

<u>For video files</u>: QuickTime h264 with a minimum pixel resolution of 1920 wide x 1080 high (16:9 ratio)

<u>For Cinema Film</u>: DCP-JPEG 2000 2K resolution in either Flat (1998 x 1080, 1.85:1) or Scope (2048 x 858, 2.39:1)

FACILITIES

Dressing Rooms No. 1 & 2 for 29 artists. Each room 7.8m x 7.5m

No. 3 & 4 for 4 artists. Each room 2.4m x 3.7m

All with individually lit make-up benches
All with separate shower and toilet facilities
All with Program Relay & CCTV monitors
6 x Large costume rack trolleys, length 1900mm
2 x Medium costume rack trolleys, length 1000mm
2 x Small costume rack trolleys, length 750mm

Tour/Production Office 1 x Office 3.8m x 2.1m

Laundry 3.7m x 4.6m.

Equipped with the following items 1 x 7kg automatic washing machine

1 x 5kg tumble drier 1 x Cabinet drier

1 x Ironing board & Iron

1 x Washing Tub

Green Room 3.5m x 4.6m equipped with refrigerator, microwave and Rheem

Laser boiling water unit

NOTE: Araluen does not supply tea/coffee etc.

STAGE MANAGEMENT

S.M. Console Located in prompt corner with dedicated talkback to all production

areas, CCTV, telephone and paging to all backstage areas and

control room.

Talkback System Telex Audiocom US2000 Microprocessor controlled two-channel

intercom system with S.M. communication points in all production

areas.

1 x US-2000 Station + SPS-2000 Power Supply.

7 x Telex BP-1000 Belt-packs with PH-1 single ear headsets. 4 x Telex/RTS BP-1002 Belt-packs with HR1 single ear headset.

1 x Telex/RTS BTR-240 Wireless Intercom Base Station

4 x Telex/RTS TR-240 Wireless Belt-pack with HR-1 single ear

headset.

1 x Telex RadioCom BTR-700 UHF Wireless Intercom Base Station.

4 x TR-700 UHF Belt-packs with PH-1 single ear headsets.

Closed Circuit TV 1 x Panasonic AW-HE60 PTZ colour camera mounted at rear of

Auditorium giving a full stage picture.

Colour monitors located at the SM console, PS and OP wings, all Dressing rooms and Green Room and Touring Company Production

Office.

Paging System Paging to all backstage & production areas as well as program

relay.

Internet Access available upon request throughout Theatre &

Backstage via Wifi & Ethernet connection.