

THE ARALUEN ARTS CENTRE

THEATRE TECHNICAL SPECIFICATIONS

2026

DIRECTOR: **FELICITY GREEN**

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THEATRE DIMENSIONS

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

Proscenium	Width	12.930 metres
	Height	6.745 metres
Stage Width	Wall to wall	21.40 metres
	Centre Line to PS wall (c'weight frame)	9.95 metres
	Centre Line to OP wall	10.70 metres
Stage Depth	Apron to rear of Proscenium wall	0.620 metres
	Apron to rear of fire curtain guides	0.820 metres
	Apron to House Curtain line	1.020 metres
	Apron to line 1	1.265 metres
	Apron to line 60 (last c'weight set)	10.415 metres
	Apron to back wall	11.615 metres
Stage Height	To underside of headblock steels	18.68 metres
	To underside of grid floor	16.68 metres
	To underside of grid steels	16.47 metres
	To loading gallery floor	15.35 metres
	To underside of fly floor	6.740 metres
	Floor to batton (out dead)	16.30 metres
	Floor to batton (in dead)	00.65 metres
	Drift	15.65 metres
Width between Fly Galleries		17.70 metres
Stage Floor	Tempered Masonite screwed over Pinus Radiata floor, full width.	
	No level change	
	No rake	
	Load rating	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	6.55 metres
	Width	2.40 metres
	Maximum Diagonal	6.90 metres
Loading Dock	Ceiling Height - Maximum	12.20 metres
	Minimum	4.90 metres
	Floor space available	110.00 sq metres
Loading Dock Access Door (External)	Height	3.20 metres
	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

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

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	5 Units	8 Units
Total	18 Units	9 Units	27 Units

Riser Series Variable Height 1.0m x 1.0m	1 Unit
4m Long Truss Frame	6 Units
2m Gates for Truss Frame	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	0715
	Rear of Fire Curtain Guides	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 OF HC MOTOR	
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		Not Installed
14	Spare	3215
15		Not Installed
16	Spare	3515
17	Lighting Bar - No. 2	3665
18		Not Installed
19	Spare	3965
20	Spare	4115
	SPACE FOR STRUCTURAL SUPPORT	
21	Spare	4415
22	Border - No. 2	4565
23	Legs - No. 2	4715
24	Black Tab - No. 1	4865
25		Not Installed
26	Cinema Screen **(NOT MOVEABLE)**	5165
27	Spare	5315
28	Spare	5465
29		Not Installed
30	Lighting Bar - No. 3	5765
31		Not Installed
32	Spare	6065
33	Spare	6215
34	Spare	6365
35	Spare	6515
36	Spare	6665
37		Not Installed
38	Border - No. 3	6965
39	Legs - No. 3	7115
40		Not Installed
41	Spare	7415
42	Spare `	7565
43		Not Installed
44	Lighting Bar - No. 4	7865
	SPACE FOR STRUCTURAL SUPPORT	
45	Spare	8165
46	Cyclorama lighting bar	8315
47		Not Installed
48	Border - No. 4	8615
49	Legs - No. 4	8765
50	Spare	8915
51		Not Installed

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. 2	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. Legs 1, 2 & 3 have returns 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 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: Dimmer Room (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: 1 x Jands HP6-WM (Digital): 5 kW Extras: 2 x 2.4kW Strand Model 1 Portable Dimmers 1 x Jands 12ch Analog Rack

Lantern Stock

Fresnels	
2 kW Robert Juliat 329HF with B/D	12
1.2 kW Robert Juliat 310HF with B/D	60
1.2 kW Selecon with B/D	10
Profiles	
ETC Source 4 15/30 Zoom Profiles	60
ETC Source 4 25/50 Zoom Profiles	20
LED	
ETC S4 LED series 2 Lustr with CYC Adaptor	6
Chauvet Rogue R2 Wash	12
Acme Energy Spot Pro	3
Floods	
1 kW Par 64 with 240v lamp	12
Follow spots	
1.2kW MSD Robert Juliat Topaze with C/Mag	2

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
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

(Note – If smoke or haze is to be used, 7 days notice is required and an additional cost is applicable for smoke isolation / re-instatment)

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 Booms

(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

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

Yamaha QL5 (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

FOH
2 x BSS Soundweb BLU-100 DSPs

Foldback
2 x Nexo PS10 UTD-V3

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
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
	Yamah Rio3224-D2 I/O rack 32 Input, 16 output over Cat5e Presonus NSB16.8 AVB 16 input, 8 output Stage Box over Cat5e
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	4 only Shure ULXP4 Professional Diversity UHF Receivers 4 only Shure ULX1 Body-Pack Transmitters (TA4M connectors) 4 only Shure ULX2 Hand-Held Microphone Transmitter (SM58) (662.75 to 668.75 MHz) 2 only Shure UA844 Antenna Distribution Systems
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
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)

Foldback
8 x Nexo PS10
6 x JBL MP212 Wedges

Portable
2 X Mackie SRM350 self powered full range speakers
4 x QSC K12.2 self powered full range speakers and stands
2 x QSC KS118 self powered sub speaker

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 hung under Bridge 2.

* Please note additional hire charges apply for use of these projectors.

AV Accessories

Vision Switchers
1 x Roland V-HD1

Computers

1 x Macbook Pro with QLAB5
1 x Acer Aspire 7 i5

Audio Interface

Motu828x (USB & Thunderbolt Connection)

Monitors

3 x 23inch widescreen monitors (1080p)
1 x 24inch widescreen monitors (1080p)
1 x 65inch widescreen monitor

Splitters

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

Cable

1 x 50m DVI Fibre Optic Cable
1 x 15m DVI Cable
2 x 10m DVI Cable
5 x 5m DVI Cable

2 x Blackmagic HDMI to SDI converters
2 x Blackmagic SDI to HDMI converters
Installed for prompt corner and Auditorium OPS to Panasonic Projector mounted under bridge 2.

Conference Phone

Polycom Sound Station Duo VoIP/PhoneLine

DIGITAL VIDEO FORMATS

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

For images: JPEG or PNG with a minimum pixel resolution of 1920 wide x 1080 high (16:9 ratio)
For video files: QuickTime h264 with a minimum pixel resolution of 1920 wide x 1080 high (16:9 ratio)
For Cinema Film: 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,with program relay & CCTV monitor
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, program relay & CCTV monitor **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. 4 x Telex BP-1000 wired Belt-packs with PH-1 single ear headsets. 1 x Telex RadioCom BTR-700 UHF Wireless Intercom Base Station. 2 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	Internet Access available upon request throughout Theatre & Backstage via Wifi & Ethernet connection.

OHS Resources

Height Access	1 x JLG 30am Vertical lift EWP 1 x Houlette Optimum 8 Scissor Lift EWP (cannot be used on theatre stage) 1 x 7.5mtre Tall-A-Scope
Cable Management	20 x 1metre 2 track heavy duty cable trays 7 x 1metre light weight cable covers