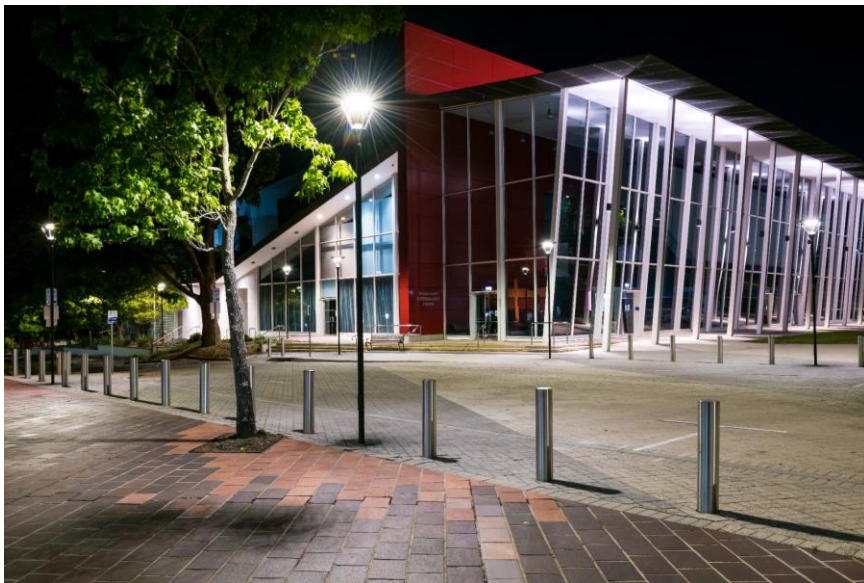


Shoalhaven Entertainment Centre

Auditorium



Technical Specifications

Updated February 2022
Document to be updated following completion of venue upgrade

Technical Manager: Gary Kennedy

Phone number: 02 4429 5751

Mobile Number: 0421 229 640

Email address: techs@shoalhavenentertainment.com.au

Venue:

Phone number: 02 4429 5757

Email address: info@shoalhavenentertainment.com.au

Website: shoalhavenentertainment.com.au

STAGE

Brief Stage Description:

Unraked proscenium arch stage, sprung plywood sandwich construction with painted Masonite sheet surface. Stage thrust available upon request. Screwing into surface permitted. Stage crossover via backstage corridor directly behind stage.

Stage distributed load limit	750kg/m²
Stage point load limit	450kg
Stage rake	No

Stage Dimensions:

Proscenium

Width	15000mm
Height	7000mm

Setting Line

Setting line is located directly **150mm** behind the proscenium arch to allow a clear pathway for fire curtain operation.

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to DS edge of apron	1300mm
SL to DS edge of Orchestra Lift/Pit	5000mm
SL to first fly line	400mm
SL to last upstage fly line	12000mm
SL to rear wall	13200mm
CL to OP wall (or obstruction)	13900mm
CL to PS wall (or obstruction)	14500mm
Stage to underside of grid	11700mm

Overhead obstructions

There are nil obstructions below grid batten height to stage level, between the width of the proscenium arch.

Both wing spaces have fly gantry platforms with an unobstructed height from stage of **8600mm**.

PS wing space contains cable picks for associated lighting bars from gantry.

Auditorium:

The Auditorium design enables maximum versatility with retractable seating over 4 levels making way for a flat floor general admission or a formal dinner. The auditorium boasts a full stage, orchestra pit and 3 operable moving floors.

Capacity:

Seating capacity four levels:	878
Seating capacity three levels:	700
Seating capacity two levels:	500
Dinner Mode:	450
Flat floor GA:	926

Orchestra Lift / Pit:

Orchestra Pit

A motorised orchestra pit operable floor is installed. The orchestra pit by default requires the removal of the floor seating rows. Crew are required to remove these rows, install balustrading and pit fall safety net before orchestra pit can be occupied. The orchestra pit floor also raises to stage height as a thrust stage. Change rooms and restroom facilities are located behind orchestra pit at basement level.

Set positions for orchestra lift where lift at auditorium level is 0mm

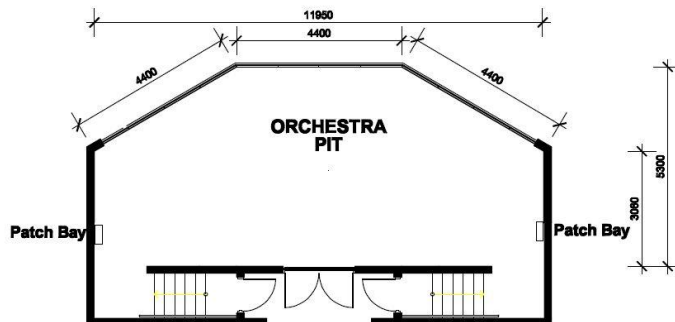
Stage level at **800mm** above auditorium.

Orchestra pit level at **1600mm** below auditorium.

Lift can be set at any height **YES – upon approval.**

SWL of orchestra lift **2500kg Distributed 750kg/m – 450kg point load.**

Dimensions of the orchestra pit **Usable area 43m²**



Orchestra pit maximum capacity **30 musicians plus conductor.**

Flying Facilities:

Fly System

THE SHOALHAVEN ENTERTAINMENT CENTRE DOES NOT HAVE A FLY TOWER: PLEASE NOTE THE LIMITED DRIFT AVAILIABLE

A single purchase counterweight system operated from stage level stage right (OP). Lines in different depths of the stage are usually available for facilitating touring soft goods. Please refer to hanging plot for details.

Fly System Details

Operating Position	OP at stage level.
Total number of Lines	34
Panorama Lines	Nil
Batten Drift	9600mm
Batten Type	48mm O/D pipe
Batten Length	18m
Batten Extensions	4 x 4m 48mm aluminium pipe extensions available
Batten Pick-ups	6 Pickups, at 3m intervals starting 1.5m from centre
Batten Point Load	80kg
Batten W.L.L.	300kg
Cradle Capacity	300kg Refer to the Hanging Plot for details
LX bars can be swung	NO
Fly bars can be swung	NO

SEE HANGING PLOT FOR LINE ALLOCATIONS AND FURTHER INFO

Hanging Plot:

SL: Setting Line as indicated previously

Line Type: SP = Single purchase, DP = Double purchase, MW = Motor Winch, HW = Hand Winch, HL = Handline

W.L.L.: Maximum distributed load including bar weight

Line #	Distance from SL	Line Type	W.L.L	Venue Allocation	Intended Use (hiring company use)
1	400mm	SP	300kg	House Curtain	Not Available for use
2	600mm	SP	300kg	Border	
3	800mm	SP	300kg		
4	1100mm	MW	500kg	LX1	
5	2100mm	SP	300kg	Legs	
6				Uncommissioned	Not Available for use
7	2600mm	SP	300kg	Border	
8	3600mm	SP	300kg	Legs	
9				Uncommissioned	Not Available for use
10	4100mm	MW	500kg	LX2	
11				Uncommissioned	Not Available for use
12				Uncommissioned	Not Available for use
13	4700mm	SP	300kg		
14	5100mm	SP	300kg		
15	5500mm	SP	300kg	Mid Tabs	Not Available for use
16	6100mm	SP	300kg	Border	
17	6300mm	SP	300kg		
18				Uncommissioned	Not Available for use
19	6600mm	MW	500kg	LX3	
20				Uncommissioned	Not Available for use
21				Uncommissioned	Not Available for use
22	7600mm	SP	300kg	Legs	
23	7800mm	SP	300kg	Border	
24	8000mm	SP	300kg		
25				Uncommissioned	Not Available for use
26				Uncommissioned	Not Available for use
27	8700mm	MW	500kg	LX4	
28	8900mm	SP	300kg		
29	9300mm	SP	300kg		
30	9500mm	SP	300kg		
31	9900mm	SP	300kg		
32	10200mm	SP	300kg	Upstage Tabs	Not Available for use
33	10500mm	SP	300kg	Cyclorama	Not Available for use
34	10700mm	SP	300kg	Screen Storage	

Drapery:

*Type	Material	Colour	Width	Height	Quantity
House Curtain	100% Polyester	Bordeaux Velvet	10000mm	8000mm	2
Borders	100% Wool	Black	19000mm	3000mm	4
Legs	100% Wool	Black	4000mm	8000mm	8
Tabs / Smother	100% Wool	Black	10000mm	9000mm	4
Cyclorama		White			1

Access Equipment:

Elevated Work Platform

Genie GR20 self-propelled vertical lift

Maximum reach is **6.0m (19.9ft) platform height**

Maximum WLL is **159kg**

Snorkel UL32 push around vertical lift

Maximum reach is **9.75m (32ft) working height**

Maximum WLL is **136kg**

EWP Restrictions

All EWP are restricted to the confines of the building.

All operators must have appropriate operating accreditation.

Working at Heights permit must be filled out as per Risk Assessment

Ladders

- Aluminium Extension Ladders: 4.2m - 7.78m, 150kg
- Aluminium Step ladder: 4.5m, 150kg capacity
- Fibreglass Step ladder: 3.6m, 150kg capacity
- Fibreglass Step/extension ladder: 2.4m-4.11m, 150kg capacity

Additional Rigging Notes

- All Rigging points installed must be approved prior to bump in by in house Riggers.
- RB1: Grid beams over stage, upstage of Proscenium Beams at 3m centres running up and down stage 11700mm above stage surface. Maximum capacity 235 kg/m including flying system.
- HB2: Beams above fore stage at right angles to proscenium at 3m centres WLL - 1500kg each
- Electric Pile winches: WLL - additional to bar 500kg
- Roof Trusses: Above Auditorium - The bottom chord of each truss is rated for a one only point load of 1000kg.
- Only House personnel can operate Fly System
- Touring LX requiring Fly lines must submit an LX plot and hanging plot 4 weeks prior to event date.
- All Battens are 48mm OD pipe.
- Rigging point plan available upon request.

Staging Units:

Foldout Riser x2, 1.8m x 2.4m
300mm beartrap riser x7, 1m x 2m
600mm beartrap riser x7, 1m x 2m
900mm beartrap riser x7, 1m x 2m
Stairs and rails to suit above heights
Stage stair covers

Safety Curtain:

Safety Curtain installed **YES**
Safety Curtain must be unobstructed at all times **YES**
Thickness of Fire Curtain **25mm leading edge – Stobitch Fabric**
Distance from setting line **Fire curtain line is SL.**
Note: Measurement is to the downstage edge of the Fire Curtain.

Staging Notes:

All flown items must be rigged with rated equipment with minimum 6mm FSWR and is subject to approval by venue
Access to fly galleries and catwalks is restricted to venue staff. Visitors must be accompanied by venue staff whilst in these areas.
Limited rigging gear available onsite.

Loading Dock:

Access

Loading Dock 1.
Entry via Southern carpark off Graham St.
Reverse into loading dock
Flat load through loading dock to stage.



Loading Dock Height **900mm**



Restrictions / Obstructions

Vehicles over 11m please contact venue min 48hours prior to arrival. Traffic restrictions must be organised to allow vehicle to safely access the loading dock.
Trucks may remain parked in loading dock for the scheduled contract duration, unless advised by venue.
Loading dock is at stage level.

LIGHTING

Control:

Lighting desk **GrandMA3 Compact XT**

LSC Clarity LX300

Control channels **GrandMA – 4096ch**
LSC Clarity – 2048ch

Signal output **DMX-512, Artnet, sCANnet**
Universe A – Dimmers
Universe B – FOH
Universe C – Stage 1
Universe D – Stage 2
Universe E – House LX

Signal distribution **5 Pin XLR, Ethernet Node**

Dimmer Racks:

Total Dimmers **144ch + mobile units**

Dimmer Locations **Dimmer Room – Western Tech Corridor L4**
Mobile 12ch Dimmer Rack
Mobile 1ch Dimmer

2.4Kw Dimmer Racks **Bytecrafft Solution 12**
 Total dimmers @ 2.4kw per dimmer **132**

5Kw Dimmer Racks **Bytecrafft Solution 6**
 Total dimmers @ 5kw per dimmer **12**

House Lights:

Independant control **YES – Controlled only at following locations.**

Control positions **DS PS – Adjacent SM Desk**
LX Bio
Sound Bio

Fade time adjustable **No**

Presets **Theatre Mode -**
Cabaret Mode -

Stage Luminare:**Profiles**

Make	Model	Angle	Detail / Accessories	Watt	Total
Prolights	CT+				32
Selecon	Pacific	12/28	(?) M Size Gobo Holder, (?) Iris, (?) Gel Holder	1000w	19
Selecon	Pacific	23/50	(?) B Size Gobo Holder, Iris, Gel Holder	1000w	16
Selecon	Pacific	5/12	Gel Holder	1000w	10

Fresnel's

Make	Model	Detail / Accessories	Watt	Total
Selecon	Rama HP	(44) Barndoors	1200w	44
Selecon	Arena	(14) Barndoors	2000w	14

Par Cans

Make	Model	Angle	Detail / Accessories	Watt	Total
Kupo	Multipar	Various		575w	16
ShowPro	Fusion Par HEX12HX				12
ProShop	Quad 7 LED Par				16

Wash

Make	Model	Detail / Accessories	Watt	Total
Selecon	Aurora 4Way		4x1200w	8

Movers

Make	Model	Control Channels	Detail / Accessories	Watt	Total
Ayrton	Diablo	35			8
Silver Star	Pluto 4000				12

Followspots:

Make	Model	Angle	Detail / Accessories	Watt	Total
Selecon Rua			6 way colour selector	1200	2

Additional Lighting:

Item	Make	Model	Detail / Accessories	Watt	Total
Martin Rush	Martin	MH6			4
Intimidator	Chauvet	LED spot			4

Patching:

Location	Quantity	Numbering (PS to OP)	Detail / Accessories

Power:

3 Phase Outlets

- (1) DSPPS Patch Panel, 32A, Audio Only
- (1) USPPS Patch Panel, 32A,
- (1) PS Fly Gallery Patch Panel, 32A
- (2) PS Green Temp, 32A, Audio Only
- (1) DSOP Patch Panel, 32A
- (1) USOP Patch Panel, 32A
- (1) OP Fly Gallery Patch Panel, 32A

Temp Power

Located PS are (2) 100A temp power supplies. One designated Green (audio only) and one designated LX/VX. These are independent feeds that need to be lugged by a qualified electrician. **NO** user outlets are provided. Please contact the Technical Coordinator for further details.

Cabling:

240v Extension Cable

A stock of 240v 10a cable is available in lengths 0.5m, 1m, 2m, 5m, 10m, and 20m. Minimal 15a cabling available.

Looms

- (4) 20m 4-way Weiland
- (4) 4-way Weiland Header
- (4) 4-way Weiland Tails

3 phase Extensions

- (1) 20m 32a Clipsal 56 series extension
- (2) 10m 32a Clipsal 56 Series extensions

AUDIO

Control Positions:

Control Room

The audio bio is located at the rear of the auditorium stage left. It is off axis and has sliding glass windows. This is a dedicated position when used but is NOT the default operating position.

Auditorium

Centre mix position is located within the auditorium space in the centre of rows L and M. These seats (12) are on a permanent hold unless otherwise organised as this is the default operating position. Relocation from this position may incur additional fees.

Monitors

When requested in advance monitors can be operated from side stage PS from a dedicated monitor console. Please contact Technical Coordinator for details.
Analogue (48ch) and Digital Dante (64ch) split available.
Where more than 8 sends are required this becomes default.

Other

For rehearsal and minimal audio requirements a small audio console can be located side stage PS.
iPad control is available for all digital consoles upon request.

Control & Amplification:

Primary Mixer

Yamaha CL5, 72 Channel, 8 Stereo, 24 Mix Bus, 8 Matrix
(2) Yamaha Rio3224 Stage Rack
Yamaha Ri8 Input Rack (located centre mix drive)
Yamaha Ro8 Output Rack

Secondary Mixer/Monitor Mixer

Yamaha M7CL-48, 48 Channel, 4 Stereo, 16 Mix Bus, 8 Matrix

Amplifiers

(7) L'Acoustic, LA4X Amplified Controller, 4 Channel, 4 x 1000 W @ 4 or 8 ohms
(2) L'Acoustic, LA12X Amplified Controller, 4 Channel, 4 x 2600 W @ 4 ohms

EQ

L'Acoustic P1, LA Network Manager, Windows Surface PC
Klark Teknik DN360

Speakers:

FOH Speakers

- (8) L'Acoustic Kara II, FOH Left
- (3) L'Acoustic SB18, SUB Left
- (8) L'Acoustic Kara II, FOH Right
- (3) L'Acoustic SB18, SUB Right
- (4) L'Acoustic Kara II Centre Fill
- (2) L'Acoustic SB18, Ground SUB Left
- (2) L'Acoustic SB18, Ground SUB Right
- (6) L'Acoustic X8, Front Lip Fill
- (2) L'Acoustic A10 Focus, Delay Left
- (2) L'Acoustic A10 Focus, Delay Right

Foldback

- (16) L'Acoustic 112P
- (2) L'Acoustic SP15P
- (4) QSC KW121, 1000 W
- (4) QSC KSUB, 1000 W

Playback:

Item	Make	Model	Detail	Total
CD Player	Denon	DN-C653	Professional CD Player	3
MacBook Pro	Apple		Macbook Pro with Qlab	2

Microphones:

Make	Model	Detail / Accessories	Use	Total
Shure	SM58			10
Shure	SM57			12
Shure	Beta52a			1
Shure	Beta91a			1
Shure	SM81			1
Shure	SM94			2
Additional	Various	Available upon request		10

Accessories:

Item	Model	Detail / Accessories	Total
	Tall Boom		10
	Short Boom		8
	Tall Chrome Boom		4
	Short Chrome Boom		6
	Round Base		8
Active DI	Radial Pro48		4
Stereo Passive DI	Radial ProD2		8

Cabling:

Audio Cable

A stock of audio XLR in lengths 0.5m, 1m, 3m, 5m, 7m, 10m, 15m, 20m, are available
The venue has a vast array of patch, conversion or splitter cables to suit most applications.

All cable is tested and in working order.

A stock of quality Cat6 cable for digital audio distribution is available.

Multicore

(1) 20m 27 Way Stage drop, 24 sends, 3 Returns

(1) 15m 12 Way Stage drop, 8 send, 4 Returns

(2) 15m 8 Way Stage drop, 8 send

Audio Notes:

FOH PA trim height is not adjustable. This is dead hung.

Default Mix position is Centre Mix position within the Auditorium.

SPL logging and monitoring is used during all performances.

AUDIO VISUAL

Control:

Atem Mini Pro ISO

Atem TV Studio

Default control location is side stage PS next to SM desk. Please contact Tech Coordinator for other location as patch limitations exist.

Projectors:

Type	Model	Detail / Accessories	Total
Epson	EB-L1755UNL	LED/Laser – 15000 Lumens – Ultra Short, Wide and Long throw lenses available	3
Sony	VPL-FX52		1
NEC	NP-PA622UG		1

Screens:

Projection Screen

Stumpfl Fast fold. Rear and Front Surfaces. Rigged Line 17 for Rear Project.

Screen dimensions **6m x 3.0m or 3.0m x 2.4m**

Additional Screens

Rear Cyclorama, mounted 80" LCD, Mounted 65' LCD

Projector Rigging Points:

US Centre wall on custom mount for Rear Project Auditorium Stage Screen half stage.

DS Centre on Bar 3 for projection on to Cyc.

For mounting options elsewhere in auditorium please contact Technical Coordinator.

Cabling:

A stock of SDI, HDMI and Cat6 cabling is available in various lengths

BACKSTAGE

Communications:

Stage Managers Desk

Located downstage prompt corner. Comms, Paging, Stage Monitor and Light available.
On wheels but with limited movement. Clear view to stage via first Leg.

Talkback

Master Unit **Clearcom Freespeak II, Jands Ezicom**
Total sub stations **8**
Total headsets **10**
Radio Units In-house **2 Freespeak wireless beltpacks. 2 way radios**
Talkback patching located at: **DSPS - SM Desk**
 USPS -
 DSOP -
 USOP -
 LX Bio
 AX – Centre Mix/Bio
 Followspot x 2 – FOH Bridge 3
 Orchestra pit & rehearsal room

Paging / Show relay

Paging to the dressing rooms is available from the stage managers desk. Show relay is distributed to all dressing rooms and green room. Each room has an individual volume control.

Stage Monitor

TV monitors are located SM, Green room and all Dressing Rooms

Q Light System

In house Q light system available **NO**

Dressing Rooms:

Dressing Room	Capacity	Toilets	Shower	Details
Dressing Room 1	15	(2)	Yes	Unisex
Dressing Room 2	2	Yes	Yes	Unisex
Dressing Room 3	2	Yes	Yes	Unisex
Dressing Room 4	15	(2)	Yes	Unisex

Laundry / Wardrobe:

Washing Machine	Yes – Located Loading Dock
Dryer	Yes – Located Loading Dock
Drying rooms	NA
Iron / ironing board	Yes x 2
Clothes racks	Yes x 2

Production Facilities:

Production Desk

Standard Trestle table set on Level 1 behind floor seats

Production Office

NO

Phone

NO, Emergency use permitted

Fax

NO

Access to phone for internet access

Public Wi-Fi available.

Production specific internet access must be approved in advance by Technical Coordinator.

Greenroom:

Tea / Coffee facilities	YES
Fridge / freezer	YES
Microwave	YES
Running water	YES

Stage Door:

Access

Stage Door is located at southern car park adjacent loading dock 1.

All Cast and crew to access via stage door. Stairs & ramp accessible

VENUE:

Venue Contacts:

Venue Address **42 Bridge Rd, Nowra 2541**

Venue Postal Address **42 Bridge Rd, Nowra 2541**

Staff Contacts:

Technical Coordinator Gary Kennedy

Mobile 0421 229 640

Email Address gary.kennedy@shoalhaven.nsw.gov.au

Phone Number 02 4429 5751

Head of Lighting NA

Head of Staging NA

Head of Audio Brendon Vitiello

Mobile [Click **here** and type mobile number.]

Email Address Brendon.vitiello@shoalhaven.nsw.gov.au

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Phone Number 02 4429 5759

Email Address sec_events@shoalhaven.nsw.gov.au

Box Office Carina Turner

Phone Number 02 4429 5754

Email Address carina.turner@shoalhaven.nsw.gov.au

Venue Plans:

Venue Plan Available

Yes upon request

Venue Section Available

Yes upon request

DRAFT