

Theatre Royal Whakatū Nelson Technical Specification

Version: October 2021

Technical Manager
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Theatre Manager

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Stage Dimensions

Our setting line is the upstage edge of the proscenium arch

Stage Surface Flat, painted, ply-wood. Non-sprung

Stage height 890mm from auditorium floor Proscenium arch 8100mm wide x 4900mm high

Total Stage depth 9770mm - Edge of stage to upstage wall

Apron Depth 1230mm - Edge of stage to setting line - Orchestra pit does not raise

Onstage depth 8540mm - Setting line to upstage wall

Stage weight loading Max 500kg per square metre

Wing-space and gallery dimensions

Wing-space PS 2000mm - Offstage of leg to fly rail Wing-space OP 6500mm - Offstage of leg to wall

Wing height 5000mm - Stage floor to underside of gallery walkway

Gallery handrail 6800mm - Height from stage

PS Gallery rail from centre 5720mm
OP Gallery rail from centre 6190mm
Pan bar to gallery PS 180mm
Pan bar to gallery OP 560mm

Dock / Stage Access Dimensions

Loading dock door 2750mm wide x 2800mm high Upstage scene door 3300mm wide x 2700mm high

The dock door is set 1250mm up, and 2300mm back from closest sealed vehicle access because of a 300mm high landing for the stage door pedestrian access.

A full sized tail-lift will span this distance, albeit at an incline, defined by the truck deck height. We're aware it's not ideal.

Vehicle Access & Parking

There is no backstage parking, sorry.

Vehicle access to the stage door / scene dock is via Vanguard Street.

Our dock space is shared with adjacent businesses. Advanced notice is required for truck access to be uninhibited. Trucks can typically remain in situe for single day events as long as they pull forward to provide stage door pedestrian and emergency vehicle access.

Fly Tower Specifications

SWL per batten is 400kg distrubited, 200kg point.

Batten in-dead 1300 mm (top of batten)
Batten out-dead 10450 mm (top of batten)

Maximum drift 9150 mm

Stage floor to grid 10670 mm (underside)
Grid block beams 12500mm (underside)
Battens are 75 x 50 mm RHS

Batten length 10600 mm

Suspension wires 4x 6mm wire rope placed 1600mm & 4800mm from centre

Pan bars from centre PS 5460mm OP 5850mm

Orchestra Pit

Please talk to us if you are require use of the orchestra pit.

Exposing or closing the orchestra pit is a manual process requiring 4 people. This can be managed be our crew, or yours with one designated VT. When open, the pit is railed and netted. A central removable section provides an MD Position. Retaining access between the auditorium and stage during show requires seats to be removed from sale, prior to public relase.

Pit Depth 1500mm below auditorium floor, 2400 below stage/net

Orchestra pit room 3500mm x 8000mm - Concave front wall

6800mm x 8000mm - Generally utilised for some storage. Rear band room

Masking

All venue drapery is maintained with a current application of fire-treatment. Documentation is available on request. Any drapery or fabric drops brought into the venue must be fire treated.

1x House curtain Red velvet, overlapped split 1x Valance Red velvet - Not Installed

6m high, 3m wide, flat. 4x return arms. 5x Pairs of black legs

4x Black borders: 3m drop, 11m wide, flat 1x Black tabs 6m drop, 6m wide, pleated

2x Tab Tracks

1x Black cyc Screen 6m high, 11m wide. Front or rear project. PVC, 50% Gain 1x White cinema Screen 5.2m high 12.5m wide. Front project. 90% Gain - Not Installed 300mm high, 9.2m wide in 4x 2.3m sections. Painted ply 1x Black ground-row

Sound System

Our sound system provides excellent coverage throughout the auditorium to 110dBa and is suitable for theatre, music theatre, dance playback and concert applications.

Mains 2x QSC HPR 135i - 3way active

2x Peavey Q118 subs w/ Samson SX3200 amplifier

Circle Fill 2x QSC K12 - 2 way active

Front Fill 2x EAW VR-62 front fill speakers w/ QSC USA450 amplifier

Centre Set 2x QSC K12 - 2 way active

Drive 1x DBX Drive-rack Venu 360

1x Allen & Heath ZED16 - 8Mic Pre, 4 Stereo in mixer Console

Snakes 3x 12/4 XLR to stage (2x PS, 1x OP)

10x XLR returns to amp rack

Stage Fill 2x JBL M825 speakers w/ Phonic amp

1x vocal microphone and stand Inputs

The Sound system is based around 3-way speakers stacked on 18" subs either side of the proscenium arch. HF fill is provided to the first few rows of the stalls and dress circle. The main system is tuned and time-aligned with a Drive-rack Venu360.

The HPR and K12 speakers are run in stereo pairs, while subs and front fill are mono.

2x QSC K12's, rigged on FOH 1 Truss provide a seperate centre vocal cluster.

The DriveRack settings are typically locked, but we are happy to create a duplicate profile

Power

Standard 10A and technical earth 10A (for audio) outlets are located throughout the facility.

Stage

Dimmer Room (DS L) 4x 40A 3 Phase

1x 300A Lighting Power-lock 1x 200A Sound Power-lock

DS R 1x 40A Technical Earth 3 Phase

1x 60A 3 Phase

US L 1x 40A 3 Phase US R 1x 40A 3 Phase

Other

Operating Position 1x 40A 3 Phase

1x 40A Technical Earth 3 Phase

Loading dock 1x 63A 3 Phase
Gallery Level 3x 40A 3 Phase
Fly Level 1x 40A 3 Phase
Rehearsal Room 2x 40A 3 Phase
Auditorium ceiling 2x 40A 3 Phase
Band Room 1x 40A 3 Phase

1x 40A Technical Earth 3 Phase

Rigging & hanging positions

Use of rigging is included in the venue hire. Damaged componants will incur a replacement fee.

FOH 1: 9m alloy box truss, dead-hung.

5.4m high, 3.1m from setting line (60°)

FOH 2: 9m alloy box truss on 2x 500kg motors

5.4m high, 4.7m from setting line (45°)

Overhead: 4x Pre-wired lighting electrics w/ 20 circuits each + DMX. Counterweight flown.

4x Ladders on PS & OP Pan Bars. In leg bays 1-4, loomed with 6 circuits + DMX. Dummy bars and scaffold tube available for counterweight flown auxiliary bars.

Floor/Scaff 8x Baseplates

8x 2.5m Scaffold tube. 40x 450mm outrigger 40x 90deg scaff clips

10x Turtles

Rigging 10x Dummy-bar clamps - 150kg SWL

12x 2m round soft slings - 2T SWL 4x 1m round soft slings - 3T SWL

20x 500mm Chain

4x 3.5m black fly wires, 208kg SWL 4x 5m black fly wires, 208kg SWL

Misc. clamps, pipe, clips, turnbuckles & shackles.

Access: Genie-lift and a variety of ladders for focussing etc

Lighting System

Use of the following lighting equipment is included in the venue hire. Blown lamps, damaged components & wasted gel and will incur a replacement fee.

Fixture stock All fixtures are fitted with suitably rated hock-clamps and safety wires.

24x Selecon Rama Fresnel 1200 with barn-doors

6x Selecon Rama PC 1200 with barn-doors

13x Pacific 14/35 13x Pacific 23/50

4x 4 Bay Selecon 1000W Lui Cyc Units

2x 650W 'Mini' PC

16x QUAD18 LED Pars (RGBW)

12x A sized gobo Holder 10x B sized gobo holder

10x Iris for pacific

30x Par 64 Can with CP62 lamps (plus limited stock of alternative lamps)

Control Equipment Theatrelight Cuemaster II - 120 channel control desk

ETC Ion Xe20 w/ dual touch screens

Showfile available on request

Dimmers DMX - Theatrelight PID II Rack

12 channel Theatrelight DMX Dimmer Tour Pack

Switches 12 channels of PID DMX Switching

10A Way-lines IEC Patch bay with 250 way-lines terminating throughout facility.

Excluding the 5 'stage spot-bar' weiland outlets for overhead LX bars, all

way-line outlets are standard 10A sockets.

DMX 2x DMX input way-lines from operating position to DMX splitter rack.

2x 10ch primary DMX splitters for saturated data of facility waylines.

1x 8ch splitter on PS gallery for lines to LX bars and PS Ladders (5 or 3 pin)

1x 4ch splitter on OP gallery for lines to all OP Ladders (5 or 3 pin)

Limited 3/5 and 5/3 adapters are also available.

House Lights

An independent 3 preset system with house at full, half & show; as well as manual up/down. Controls located at the SM panel, foyer and standard operating position.

Standard Configuration

We maintain a standard lighting design and masking configuration. Hirers are welcome to alter this providing it is returned as part of their pack-out.

Our standard lighting configuration provides the following:

- Full stage, open white and cool front light
- Full stage, one colour backlight
- Full Stage break-up gobo
- Curtain warmers
- LED side light onstage (RGBW)
- 11x Spotlight specials
- 4 Colour Cyc

Backstage Facilities

Dressing Rooms 4 Total. 2 per stage level, 2 per 2nd level. Roughly 5m x 2.5m

Features well lit makeup mirrors and counter; bench and single seats

and fixed costume rails.

Rehearsal Room 8m x 11m Carpeted room with attached kitchenette

Toilets 5x Non-gendered. 2 on Stage level and 3 on 2nd level.

Shower 2x 1 on Stage and 2nd level

Kitchenette 2x 1 on Stage & 3rd level w/ bench, sink, kettle microwave & fridge

Laundry Located on the third level. Contains large bench space, deep tub, 2x

7.5kg Washing machines, 2x 8kg Dryers, 1x Steamer, 2x Irons & boards

Staging 7x Wooden risers 2400mm x 900mm x 290mm (h)

Internet Free access guest network available.

Cabled internet available by special request.

Data Cabling CAT6e throughout building terminating in dimmer room patch bay

Comms 1x Clear-Com dual channel base-station

5x Clear-Com single channel belt pack and head-sets Patch points for A and B lines throughout the building

Spotting light Yes

Stage monitoring 1 vision monitor per dressing room, 1x DS Prompt, 1x movable screen

Paging system Yes

Wheelchair facilities Bathroom, shower and dressing rooms on stage level

Lift connects wheelchair accessible foyer to stage and pit levels

Blue Lights Throughout back of house. Not dimmable.

Security Magnetic locking from FOH to BOH.

Keys issued to core crew. Lost key replacement applies.

Pin-coded stage door.

Air-conditioning Temperature control of the auditorium and stage.

Fresh air supply to all other back of house areas.

First Aid First Aid is located in the dimmer room

Fire Safety Heat activated sprinkler system, smoke doors and fire extinguishers

located throughout the building.

Smoke/Particle Alarm No

Theatre Royal Whakatū Nelson Single Universe Address & Patch + Ion Channel List

01						TOTT OTTAININ		
Channel	Name / Purpose	Position	DMX	Wayline	Colour	Fixture	Focus Notes	
		pen White Front Light						
1	Front Light DS L	FOH 2	1	5	o/w	1200 Rama PC	Centred on a persons shoulders standing 1m from DS edge. Focus at 40 Degrees, Barn-doors	
2	Front Light DS C	FOH 2	2	10	o/w	1200 Rama PC	to trim off arch and stage edge	
3	Front Light DS R	FOH 2	3	15	o/w	1200 Rama PC		
4	Front Light L	LX 1	4	56	o/w	1200 Rama Fresnel	Focus at 45 degrees, tilt 20 degrees upstage. Barn-doors to tidy and off legs.	
5	Front Light C	LX 1	5	51	o/w	1200 Rama Fresnel	Dam-doors to tidy and on legs.	
6	Front Light R	LX 1	6	46	o/w	1200 Rama Fresnel		
7	Front Light L	LX 2	7	76	o/w	1200 Rama Fresnel		
8	Front Light C	LX 2	8	71	o/w	1200 Rama Fresnel		
9	Front Light R	LX 2	9	66	o/w	1200 Rama Fresnel		
10	Front Light US L	LX 3	10	96	o/w	1200 Rama Fresnel		
11	Front Light US C	LX 3	11	91	o/w	1200 Rama Fresnel		
12	Front Light US R	LX 3	12	86	o/w	1200 Rama Fresnel		
	Cool Front Light							
13	Front Light DS L	FOH 2	13	6	Cool Tint	1200 Rama PC	Centred on a persons shoulders standing 1m	
14	Front Light DS C	FOH 2	14	12	Cool Tint	1200 Rama PC	from DS edge. Focus at 40 Degrees, Barn-doors to trim off arch and stage edge	
15	Front Light DS R	FOH 2	15	16	Cool Tint	1200 Rama PC	to thin on arch and stage edge	
16	Front Light L	LX 1	16	55	Cool Tint	1200 Rama Fresnel	Focus at 45 degrees, tilt 20 degrees upstage.	
17	Front Light C	LX 1	17	49	Cool Tint	1200 Rama Fresnel	Barn-doors to tidy and off legs.	
18	Front Light R	LX 1	18	45	Cool Tint	1200 Rama Fresnel		
19	Front Light L	LX 2	19	75	Cool Tint	1200 Rama Fresnel		
20	Front Light C	LX 2	20	69	Cool Tint	1200 Rama Fresnel		
21	Front Light R	LX 2	21	65	Cool Tint	1200 Rama Fresnel		
22	Front Light US L	LX 3	22	95	Cool Tint	1200 Rama Fresnel		
23	Front Light US C	LX 3	23	89	Cool Tint	1200 Rama Fresnel		
24	Front Light US R	LX3	24	85		1200 Rama Fresnel		
24	-	LAS	24	65	Cool Tint	1200 Rama Freshei		
0.5	Backlight	17.0	05	0.4		1000 D F	F If I for all Till 00 de	
25	Downstage Backlight L	LX 3	25	94		1200 Rama Fresnel	Focus at full flood. Tilt 30 degrees downstage. Barn-doors to tidy.	
26	Downstage Backlight C	LX 3	26	90		1200 Rama Fresnel		
27	Downstage Backlight R	LX 3	27	87		1200 Rama Fresnel		
28	Upstage Backlight L	LX 4	28	115		1200 Rama Fresnel		
29	Upstage Backlight C	LX 4	29	110		1200 Rama Fresnel		
30	Upstage Backlight R	LX 4	30	105		1200 Rama Fresnel		
	Spotlights					1		
31	Downstage Centre Front	FOH 2	31	11	o/w	Pacific 14/35		
32	Downstage Centre Top	LX 1	32	50	o/w	Pacific 14/35		
33	Downstage Centre Backlight	LX 2	33	70	o/w	Pacific 14/35		
34	Profile 1	FOH 1	34	28	o/w	Pacific 14/35		
35	Profile 2	FOH 1	35	29	o/w	Pacific 14/35		
36	Profile 3	FOH 1	36	25	o/w	Pacific 14/35		
37	Profile 4	FOH 1	37	22	o/w	Pacific 14/35		
38	Profile 5	FOH 1	38	23	o/w	Pacific 14/35		
39	Profile 6	FOH 1	39	24	o/w	Pacific 14/35		
40	Profile 7	FOH 1	40	34	o/w	Pacific 14/35		
41	Profile 8	FOH 1	41	31	o/w	Pacific 14/35		
42	SPARE		42					
	Curtain Warmers							
43	Red Curtain Wamers	FOH 2	43	1 + 20	Red	Par 64 - MFL	Ceramics angled symmetrically on curtain	
	Gobo Breakups							
44	FOH Gobo Breakup	FOH 1	44	27 + 32	o/w	Pacific 23/50	Focus knobs to around 6.5 and 8 to achieve a	
45	Down Stage Breakup	LX 1	45	41 + 60	o/w	Pacific 23/50	blurred dapple. FOH 1 units to cross along	
46	Gobo Breakup	LX 2	46	61 + 80	o/w	Pacific 23/50	downstage, shuttered off arch and front edge of stage. Overhead units to tilted at 45 degrees.	
47	Gobo Breakup	LX 3	47	81+ 100	o/w	Pacific 23/50	LX1-3 panned upstage roughly 15 degrees. LX4 panned downstage to avoid spill on	
48	Upstage Gobo Breakup	LX 4	48	120	o/w	Pacific 23/50	cyclorama.	
	,							

Channel	Name / Purpose	Position	DMX	Wayline	Colour	Fixture	Focus Notes
	Cyc Lighting						
49	Inside Pair A	LX 4	49	109 + 114	Red	Selecon Lui	Set the face of unit at 25 degree downward tilt.
50	Outside Pair A	LX 4	50	104 + 119	Red	Selecon Lui	Line up and level the top of all four lamp beam edges.
51	Inside Pair B	LX 4	51	108 + 113	Green	Selecon Lui	- cagoo.
52	Outside Pair B	LX 4	52	103 + 118	Green	Selecon Lui	
53	Inside Pair C	LX 4	53	107 + 112	Blue	Selecon Lui	
54	Outside Pair C	LX 4	54	102 + 117	Blue	Selecon Lui	
55	Inside Pair D	LX 4	55	106 + 111	Amber	Selecon Lui	
56	Outside Pair D	LX 4	56	101 + 116	Amber	Selecon Lui	
	Spare Dimmers						
-	Available Dimmers		57 - 120				

Channel	Name	Position	DMX	Wayline	Colours	Fixture	Focus Notes
	LED Side Lighting						
201	Ladder 1 - OP - Top	OP Ladder 1	150	Hot - 189		Show Technology QUAD PAR 18 10-Channel Mode	2 units per ladder, paned to face across stage. Bottom lamp tilted to hit 1/3 across the stage from lamp position. Top lamp tilted to hit 2/3 across the stage from lamp position.
202	Ladder 1 - OP - Bottom	OF Laudei 1	160	1101 - 109			
203	Ladder 2 - OP - Top	OP Ladder 2	170	Hot - 201	DODIM		
204	Ladder 2 - OP - Bottom	OP Ladder 2	180	HOL - 201			
205	Ladder 3 - OP - Top	OD Laddan O	190	11-+ 010	- RGBW		
206	Ladder 3 - OP - Bottom	OP Ladder 3	200	Hot - 213			
207	Ladder 4 - OP - Top	001 - 11 - 4	210	Hot - 225			
208	Ladder 4 - OP - Bottom	OP Ladder 4	220				
211	Ladder 1 - PS - Top	PS Ladder 1	230	Hot - 195	- RGBW	Show Technology QUAD PAR 18 10-Channel Mode	2 units per ladder, paned to face across stage. Bottom lamp tilted to hit 1/3 across the stage from lamp position. Top lamp tilted to hit 2/3 across the stage from lamp position.
212	Ladder 1 - PS - Bottom	· O Laddor ·	240				
213	Ladder 2 - PS - Top	PS Ladder 2	250	Hot - 207			
214	Ladder 2 - PS - Bottom		260	HOL - 207			
215	Ladder 3 - PS - Top	PS Ladder 3	270	Hot - 219			
216	Ladder 3- PS - Bottom		280				
217	Ladder 4 - PS - Top	PS Ladder 4	290	Hot - 219			
218	Ladder 4 - PS - Bottom	FO Laddel 4	300				

Theatre Royal Whakatū Nelson Standard Hanging Plot

Our setting line is defined as the upstage edge of the proscenium arch. Add 1300mm for the distance to the downstage edge. Listed trim heights are to the underside of the flown object.



Line-set	mm to setine	Item	Trim	Weight	Notes	
1	100	House Curtain	Height 4.3m	Weight Bat + 60kg	Red Velvet, overlapped split, 5.5m Drop	
2	280	Black Legs #1	6m	Bat + 5kg	Thea verver, overlapped split, 5.5111 brop	
3	460	Didor Logo II I	OITI	Dat 1 ong		
4	640	LX 1	5.3m	Bat + 125 kg	20 Pre-Wired Circuits + DMX	
5	820	LXI	0.0111	Dai + 123 kg	20116-Wiled Oilcuits + Divix	
6	1000					
7	1180					
8	1360					
9	1540	Black Border # 1	4.5m	Bat + 5kg	6m Drop	
10	1720	Black Legs # 2	4.5m	Bat + 15kg	3m Drop	
11	1900	DIACK LEGS # 2	OIII	Dat + 13kg	ЭП Бюр	
12	2080					
13	2260	LX 2	5.3m	Pot + 125 kg	20 Pre-Wired Circuits + DMX	
		LA Z	0.3111	Bat + 125 kg	20 Pie-Wired Circuits + Divix	
14 15	2440 2620					
16	2800					
17	2980					
18	3160	DI 1 D 1 # 0	1.0	D	0. D	
19	3340	Black Border # 2	4.6m	Bat + 5kg	6m Drop	
20	3520	Black Legs # 3	6m	Bat + 15kg	3m Drop	
21	3700					
22	3880		0===::0			
		1		TURAL BEAM -	20.7	
23	4290	LX 3	5.3m	Bat + 140 kg	20 Pre-Wired Circuits + DMX	
24	4470					
25	4650					
26	4830	Tab + Track		Bat + 75kg	Tabs 6m Drop, Centre opening Track	
27	5010					
28	5190					
29	5370	Black Border # 3	4.7m	Bat + 5kg	6m Drop	
30	5550	Black Legs # 4	6m	Bat + 15kg	3m Drop	
31	5730					
32	5910	LX 4	5.5	Bat + 160 kg	20 Pre-Wired Circuits + DMX	
33	6090					
34	6270					
35	6450					
36	6630					
37	6810					
38	6990					
39	7170	Black Border # 4	5m	Bat + 5kg	6m Drop	
40	7350	Black Legs # 5	6m	Bat + 20kg	3m Drop	
OP pan		4x Ladders		Bat + 105kg	6 circuits + DMX to each. 5850mm to C	
42	7710					
PS pan		4 x Ladders		Bat + 105kg	6 circuits + DMX to each. 5460mm to C	
44	8070	Сус	5.5 m	Bat + 30kg	5.5.m High Black Fr/Rr Proj (50% Gain)	

Theatre Royal Whakatū Nelson Way-line outlets



Area	Patch Numbers	Location / Description	DMX	No. of Outlets
FOH	1 to 20	Auditorium Roof : Loomed to FOH Truss 2	Yes	20
1011	21 to 40	Auditorium Roof : Loomed to FOH Truss 1 (+DMX)		20
Overhead	41 to 60	No. 1 Stage Spot Bar : Weilands to LX 1 Electrics (+DMX)	Yes	20
	61 to 80	No. 2 Stage Spot Bar : Weilands to LX 2 Electrics (+DMX)	Yes	20
	81 to 100	No. 3 Stage Spot Bar : Weilands to LX 3 Electrics (+DMX)	Yes	20
	101 to 120	No. 4 Stage Spot Bar : Weilands to LX 4 Electrics (+DMX)	Yes	20
	121 to 140	No. 5 Stage Spot Bar : Spare Weiland Outputs		20
	141 to 144	Rear of Dress Circle	Yes	4
Boxes /	145 to 152	Unused		8
Circle	153 to 158	OP Box	Yes	6
	159 to 164	Prompt Box	Yes	6
	165 to 172	Unused		8
	173 to 176	Orchestra Pit Prompt 1	Yes	4
Orchestra	177 to 180	Orchestra Pit Prompt 2		4
Pit	181 to 184	Orchestra Pit OP 1		4
	185 to 188	Orchestra Pit OP 2		4
	189 to 194	OP Fly Floor No. 1 : Loomed to OP Ladder No.1	Yes	6
	195 to 200	PS Fly Floor No. 1 : Loomed to PS Ladder No.1	Yes	6
	201 to 206	OP Fly Floor No. 2 : Loomed to OP Ladder No.2	Yes	6
Galleries /	207 to 212	PS Fly Floor No. 2 : Loomed to PS Ladder No.2	Yes	6
Ladders	213 to 218	OP Fly Floor No. 3 : Loomed to OP Ladder No.3	Yes	6
	219 to 224	PS Fly Floor No. 3 : Loomed to PS Ladder No.3	Yes	6
	225 to 230	OP Fly Floor No. 4: Loomed to OP Ladder No.4	Yes	6
	231 to 236	PS Fly Floor No. 4 : Loomed to PS Ladder No.4	Yes	6
	237 to 242	Downstage OP Floor	Yes	6
Stage	243 to 248	Downstage PS Floor	Yes	6
Floor	249 to 254	Upstage OP Floor	Yes	6
	255 to 260	Upstage PS Floor	Yes	6



