

Isaac Theatre Royal

145 Gloucester Street
Christchurch
New Zealand
Phone 0064 03 2605258
Mobil 021 745 799
Email matt@itr.co.nz

Theatre specifications

Stage Dimensions

Proscenium

Height	8.10 m
Width	10.45 m

Wings

PS proscenium arch to stage box side wall	6.5 m
OP proscenium arch to fly rail	6.5 m
Distance between OP and PS fly floors	18.8 m

Stage depth

The setting line is the back (up stage edge) of the proscenium opening

Setting line to most up stage fly line (set 79)	14.66 m
Setting line to back wall of stage box.	16.60 m
Setting line to edge of forestage	0.83 m
Setting line to DS edge of back wall pillars	16.00 m

Stage Heights

Stage to underside of grid	18.37 m
Stage to underside of fly galleries (clear)	8.97 m
Stage to stalls floor front	1.05 m

Stage Floor

The stage floor is flat (no rake)
The stage floor contains of two layers of 17 (top) and 19mm (bottom) tongued plywood
Covered cable trap surrounds the wooden floor
Stage floor is painted black
Set etc. may be screwed to the stage floor so long as holes are filled before leaving the venue

Basement

Orchestra assembly or second wardrobe room
Setting line to ground floor auditorium side of orchestra pit 3.3 m

Dressing rooms and side of stage

Stage level

Five dressing rooms each with toilet and shower 2x1 people, 2x2 people, 1x3 people
Main wardrobe room incl. 2 washing machines and 2 dryers
Wig fitting area
Stage security office

Side stage mezzanine level

Women's and Men's toilets
House technical, production management and tour manager separate offices
Crew area

Level One

Dressing room stalls area incl. toilets and showers

Level two

Green Room with kitchen
Ensemble dressing room, two showers, and three toilets

Orchestra Pit

11.6 m front to back
7.95 m wide at proscenium arch
11.54 m wide at front
14.4 m wide US of Pros (4m under PS wing)
The Pit lift is the size of the opening of the Orchestra Pit

Grand Piano – Yamaha C7

Hire of Piano - \$275 for one day (\$75 per consecutive day after)
Tuning of Piano -\$175

Flying System

The flying system is a single purchased counterweight system, situated on the OP side of the stage. The system is manually operated.

Number of counterweighted battens	79 incl. house curtain
Batten length	17 metres
Batten material	RHS 75mm x 50mm
Batten spacing	180mm centres
Line set max load	500kg
Max point load	250kg
Batten drift	17m
Pick-ups per line set	6
Panorama bars (additional to the 79 battens)	2 (1 per side)

Stage lighting

Operating position in rear center stalls. 3.6 m wide

Control

LSC MAXIM XL, 1024 DMX Channels, soft patch
Four 4 way Theatrelight DMX Splitters

Dimmers

10 x 12way Theatrelight 10amp DMX Rack packs
4 x 12 way Theatrelight 10amp TLSerial touring packs
2 x 12 way TL1210 10a TL Serial portable packs
1 x 120ch DMX to TLserial converter

Lights

Profiles:	12	Selecon 12/28* Profile
	10	Selecon 23/50* Profile
	9	Selecon 5/13* Profile (80V)
Fresnels:	9	Selecon 2kW Fresnel
	63	Selecon 1.2kW Fresnel)
	5	Selecon 1000W (limited barn doors)
	2	Selecon Mk1 1000W (limited barn doors)
PCs:	4	Selecon 1000W
	6	Strand Harmony 1kW (limited barn doors)
Cyc lighting:	5	Iris 4 1250W per cell
	4	Aurora 1250W per cell

Follow spots – Not included in venue hire

2 x Robert Juliat SUPER KORRIGAN, 1.2kW HMI
\$150.00 + GST per light 1st day hire
\$75.00 + GST per subsequent day

Lighting Bars

5 x 17m

Ladder truss lighting bars in 3m sections
30 waylines per bar run to fly floor dimmers

400A Powerlock either side of stage. Max 400A (common earth)
2 x 63A CEE form PS (technical earth)
1 x 63A CEE form OP (common earth)
2 x 32A PDL PS (technical earth)
1 x 32A PDL OP (common earth)

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Orchestra pit lift

Full size pit lift able to be used as a for stage extension (10t max rating). Mechanic interlocks at stage and auditorium levels.

Audio

System Main:	6x EV ZX5
Subs Ground:	Nil
Front Fill	2x EV ZX1
Amplification:	Crown XT4000 or JBL MPX1200 EV DX38
FoH:	Soundcraft LX7 16Ch CD Player
Monitors:	nil
IEMs	nil
RF	nil
Snakes	1x 20ch 8 returns
Inputs Mic kit	1 Shure B58a 1 Shure SM58

Stage Managers Control System

General paging and program relay to all relevant backstage areas and dressing rooms

Extensive coms plug-in points throughout the theatre and foyers

7 x single channel TP belt packs with headsets

5 x dual channel TP belt packs with headsets

4 x wireless coms (hire costs apply)

In house radios are using the following frequencies:

482.79375

482.81875

482.96875

482.91875

Outside Broadcast

63Amp power feed outside in the drive way. More can be run from inside.

Network

Shielded Cat6 throughout the building

RJ45 connectors in numerous places

High Speed Wifi

SSID: Isaac Performer

Password: on request

Stage Drapes

House Curtain

13m x 8.5m Vegas red (dark) with 50% fullness, gold trim and chain tail

Borders

5 x 18m x 3.6m drop black wool surge with tail pipe

Legs

5 x 9m x 4.8m wide black wool surge with tail chain

Tabs

2 x 18m covering tab sets incl 1m overlap with 30% fullness.
Chain tail

Cyclorama

15m x 9m with tail pipe

Light Blue\grey PVC suitable for front and rear projection

Stage access

Single lane truck access (NOT HIGHER THAN 4.25m!)

Ability to swing-lift two 20' containers inside dock area

Loading door from dock to stage box 5m x 9m high

IMPORTANT NOTE:

The Isaac Theatre Royal is a safety conscious working Theatre. Please note that all Props, Drapes and furniture brought into the theatre to be used on stage have to be made Fire-Retardant.

All fabrics must have a flammability index not exceeding 12 as defined by AS 1530 Part 2

All scenery / props have to be compliant with the NZ Building Code C3

We want to make sure that there will be no exception from this rule whatsoever.

Please contact us in advance to advice appropriate solutions.

Useful links:

Doctors:

<http://www.24hoursurgery.co.nz/>

<http://sportsmed.co.nz/>

Virtual Tour:

<http://isaactheatreroyal.co.nz/theatre-info/venue-information/virtual-tour/>

Isaac Theatre Royal, Christchurch - Standard Rig Hanging Plot

Lineset	Distance from Setting Line (mm)	Item	Height	Notes
1	90	Valance		
2	270	House Curtain		
3	450	Boarder		
4	630			
5	810	LX 1		
6	990			
7	1170			
8	1350			
9	1530			
10	1710			
11	1890			
12	2070			
13	2250			
14	2430	Border 1		
15	2610	Legs 1		
16	2790			
17	2970			
18	3150	LX 2		
19	3330			
20	3510			
21	3690			
22	3870			
23	4050			
24	4230			
25	4410			
26	4590			
27	4770			
28	4950	Border 2		
29	5130	Legs 2		
30	5310			
		Gap due to structural truss		
31	5730	LX 3		
32	5910			
33	6090			
34	6270			
35	6450	Black Tabs		
36	6630			
37	6810			
38	6990			
39	7170			
40	7350			

Battens are 75 x 50 mm RHS

Batten length = 17000 mm

No. of suspension wires = 6 off 6 mm wire rope, 3200 mm between centers

Max distributed load on each batten is 500 Kg

Max point load = 200 Kg

Front of permanent stage to setting line = 826 mm

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Lineset	Distance from Setting Line (mm)	Item	Height	Notes
41	7530			
42	7710			
43	7890			
44	8070	Border 3		
45	8250	Legs 3		
46	8430			
47	8610			
48	8790			
49	8970	LX 4		
50	9150			
51	9330			
52	9510			
53	9690			
54	9870			
55	10050			
56	10230			
57	10410			
58	10590	Border 4		
59	10770	Legs 4		
		Gap due to structural truss		
60	11230			
61	11410			
62	11590			
63	11770			
64	11950	LX 5		
65	12130			
66	12310			
67	12490			
68	12670			
69	12850			
70	13030			
71	13210	Border 5		
72	13390	Legs 5		
73	13570			
74	13750	Black Smother		
75	13930			
76	14110	White PVC Cyclorama		
77	14290			
OP1		OP pan bar		
79	14650			
PS1		PS pan bar		Projection Screen
81	15010			

Batten in-dead = 1220 mm (top of batten)

Batten out-dead = 17155 mm (top of batten)

Maximum drift = 17100 mm (stage floor to out dead)

Stage floor to underside of grid = 18375 mm

Proscenium dimensions; width = 10450 mm, height = 8100mm

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