

**Isaac Theatre Royal**

**145 Gloucester Street**

**Christchurch**

**New Zealand**

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**Theatre specifications**

**Stage Dimensions**

**Proscenium**

Height 7.2 metres  
Width 10.5 metres

**Wings**

PS proscenium arch to stage box side wall 6.2 metres  
OP proscenium arch to fly rail 6.7 metres  
Distance between OP and PS fly floors 18.8 metres

**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) 15.180 metres  
Setting line to back wall of stage box.  
Setting line to edge of forestage 0.660 metres  
Setting line to DS edge of back wall pillars 16.170 metres

**Stage Heights**

Stage to underside of grid 18.440 metres  
Stage to underside of fly galleries (clear) 9.0 metres  
Stage to stalls floor front 1.45 metres

**Stage Floor**

The stage floor is flat (no rake)  
The stage floor is two layers of 18mm 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**

Male and female orchestra toilets  
Orchestra assembly or second wardrobe room  
Conductors dressing room  
Setting line to ground floor auditorium side of orchestra pit 3.31 metres

**Dressing rooms and side of stage**

**Stage level**

Five dressing rooms each with toilet and shower 2x1person, 2x2 people, 1x3 person  
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

Chorus dressing room, two showers, and three toilets

### **Orchestra Pit**

11.4m front to back

10m wide at pro-arch

12m wide at front

14m wide US of Pros (4m under PS wing)

### **Flying System**

The flying system is a single purchased counterweight system, situated on the OP side of the stage which can be operated at stage level or from the first fly level. 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

### **Control**

Theatrelight Cuemaster 120 channel desk with 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	Cantatas 1200W zoom spot
	6	Pacific 12-28 1000W zoom spot
	10	Strand harmony 1000W zoom spot
	6	Strand T-spot 1000W fixed spot

Fresnels:	9	Selecon 2000W
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	30	Selecon 1200W
	20	Strand Harmony 1000W (limited barn doors) (12 in standard house rig)
	5	Selecon 1000W (limited barn doors)
	4	Selecon Mk1 1000W (limited barn doors)
	9	Selecon 1000W (6 in standard house rig)
Cyc lighting:	4	Iris 4 1250W per cell
	4	Selecon Aurora 4 cell ground row or flown (1250W)

### **Follow spots\_– Not included in venue hire**

2 x Lycian400 follow spots  
 \$150.00 + GST per light 1<sup>st</sup> 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

### **Orchestra pit lift**

2400x2400 platform center front of pit lifting from pit floor to stage 909kg(2000lbs) max

### **Audio**

1 x Soundcraft LX7-ii 16 channel desk  
 2 x EV ZX5 speaker, 15" and horn  
 1 x QSC RMx2450 Amp  
 2 x K&M 21435 Speaker stands  
 2 x Alto DI box  
 2 x Shure Beta 58a vocal mics  
 1 x Sennheiser EW112/135 radio mic combo (hand held or lapel)  
 2 x K&M 210/9b heavy duty mic stands  
 1 x 50m snake, 24 send + 4 return  
 1 x Sony CDPXE270 CD player  
 1 x dbx231 graphic EQ

### **Stage Managers Control System**

General paging and program relay to all relevant backstage areas  
 Up to four coms loops  
 Extensive coms plug-in points throughout the theatre and foyers  
 7 x single channel TP belt packs with headsets  
 2 x dual channel TP belt packs with headsets

### **Outside Broadcast**

63Amp power feed outside, more can be run from inside.

### **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**

1 x tab track – other set used as smother

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 full sized truck access

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

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

## Standard Rig Hanging Plot

Line set	Distance from Setting Line (mm)	Item	Height	Notes
0	80	Fire Safety Curtain		
1	260	Black Pelmet		2 weights
2	440	Red House Curtain		12 weights
3	620			
4	800			
5	980	LX 1		14 weights
6	1160			
7	1340			
8	1520			
9	1700			
10	1880			
11	2060			
12	2240			
13	2420			
14	2600	Border 1		3 weights
15	2780	Legs 1		4 weights
16	2980			
17	3140			
18	3320	LX 2		17 weights
19	3500			
20	3680			
21	3860			
22	4040			
23	4220			
24	4400			
25	4580			
26	4760			
27	4940			
28	5120	Border 2		3 weights
29	5300	Legs 2		4 weights
30	5480			
		Gap due to structural truss		
31	5900	LX3		13 weights
32	6080			
33	6260			
34	6440			
35	6620	Black Tabs		13 weights
36	6800			
37	6980			
38	7160			
39	7340			
40	7520			

Standard Mask 11.0 m with 2 tie turn back and return arms.

Setting line = Back of proscenium

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

Batten out-dead =           mm (top of batten)

Maximum drift =           mm (stage floor to out dead)

Stage floor to underside of grid =

Proscenium dimensions; width = 10470 mm, height = 7260 mm

Lineset	Distance from Setting Line (mm)	Item	Height	Notes
41	7700			
42	7980			
43	8160			
44	8240	Border 3		3 weights
45	8420	Legs 3		4 weights
46	8600			
47	8780			
48	8960			
49	9140	LX 4		13 weights
50	9320			
51	9500			
52	9680			
53	9860			
54	10040			
55	10220			
56	10400			
57	10580			
58	10760	Border 4		3 weights
59	10940	Legs 4		4 weights
		Gap due to structural truss		
60	11400			
61	11580	Black smother		8 weights
62	11760			
63	11940	Cyclorama (grey pvc)		8 weights
64	12120			
65	12300			
66	12480			
67	12660			
68	12840			
69	13020			
70	13200			
71	13380			
72	13560			
73	13740			
74	13920	LX 5		13 weights
75	14100			
76	14280			
77	14460			
OP1		OP pan bar		
79	14820			
PS1		PS pan bar		
81	15180			

Battens are 75 x 50 mm RHS

Batten length = 17000 mm

No. of suspension wires = 6 off 6 mm wire rope

Max distributed load on each batten is 500 Kg

Max point load = 250 Kg

Front of permanent stage to setting line =