

The Besen Centre



Technical Specifications

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Brad Alcock: Technical Manager

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Stage

Stage is unraked with a proscenium and a full fly tower with flying facilities. Stage floor is constructed with flat black 6mm masonite sheets over 20mm engineered particle board and is sprung on a joist construction. Screwing into the stage is permitted with short screws however larger holes including coach bolts will need the permission of the Technical manager.

Stage distributed load SWL limit:	650kg/m ²
Stage point load SWL limit:	350 kg

Stage Dimensions

Proscenium

Width:	12.30m
Height:	6.995m

Setting Line Measurements

SL to DS edge of apron	2.805m
SL to first fly line	1.220m
SL to last fly line	8.270m
SL to rear wall	9.035m
CL to OP fly rail	12.1m
CL to PS dock door	15.6m
Stage floor to underside of grid	17m
Stage depth including apron	11.840m

Orchestra Pit

Orchestra pit can be run in multiple configurations depending on production needs. Orchestra pit lids are removed via 1 tonne chain block on dolly and must only be done by the technicians on duty. Pit configuration must be discussed with venue before hiring and some configurations, eg. Pit as Stalls, will attract an additional charge.

Pit lids are of steel construction with sprung 20mm particle board covered with matte black 6mm masonite.

Flying Facilities

ITE constructed single purchase hand line system with brake.

Operating position	Op at stage level
Total number of installed lines	49
Panorama lines	Line 48 and Line 49
Batten drift	16.01m
Batten type	50X75mm rectangular steel battens
Batten length	16m
Batten pickups	5 pickups; 1 at centre then at 3.6m intervals
Batten point load	50kg
Batten S.W.L	400kg
Line MAX load	500kg
Cradle capacity	400kg
LX bars swing	Yes maximum 1000mm
TAB lines swing	Yes
Fly bars swing	Yes
Cradles interlocked	Yes with permission
Certificate	Inspected by Showtech Rigging
Operation	Only with permission of technical staff

Loading Dock

Access

Truck access is available up to 8 tonne via the rear of the building.

Loading dock floor is at height of 1.077m

Loading dock door height 3.721m

Loading dock door width 3.133m

Dock to stage door

Stage door height 3.865m

Stage door width 3.142m

Note: The loading dock is for set assembly and storage only; no painting is to be done in the Besen Centre's loading dock. Scenery storage may be available between hiring dates with prior approval.

Note: Outside flood lighting has been installed for night time bump outs; please check with the technician on duty to ensure this is turned on.

Commonly Asked Staging Questions

Can we paint the stage?

Yes the Besen Centre does allow scenic painting of the stage with a water based paint only. Cost of repainting the stage at clients cost and can only be done by Besen Centre staff.

Can we fly this scenery?

In all cases the tech on duty will inspect the object to be flown, and decide if it is safe to do so. If not, instructions on how to make it safe will be given. The tech on duty has the final say if an object can be flown.

Can I operate the fly system?

Generally yes; the technicians on duty are happy and able to train a responsible adult (18+) to fly soft objects only; all hard objects such as flats will require a flyman.

Can we use masking tape on the stage?

No not at anytime. Masking tape will adhere to the top layer of paint and remove it when it is taken up after your show. Electrical tape or glow tape are both allowed to be used on the stage.

Can we have food and drink on stage?

Not at anytime. The stage is a live environment and as such it must be keep as safe as possible at all times.

Can we run haze/smoke machines?

Yes with permission from the technician on duty. The technician will also need to be notified before any operation to ensure the building is isolated.

Can we use hay on stage?

In most cases no. Hay is highly flammable and has no real means of being rated; it also disintegrates very easily and gets caught in soft furnishings that are fire rated thus removing their fire rating. In controlled situations the technician on duty may allow hay onstage, but only under their direction.

Hanging Plot

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	From SL	Type	W.L.L	Venue Allocation	Intended Use
0.5	1200	HW	100kg	BORDER	
1	1220	SP	500kg	HOUSE CURTAIN	
2	1520	SP	400kg		
3	1670	SP	400kg	LEG 1	
4	1820	SP	400kg	LX 1	
5	No line				Not installed
6	2120	SP	400kg		
7	2270	SP	400kg		
8	2420	SP	400kg		
9	2570	SP	400kg		
10	2720	SP	400kg		
11	2870	SP	400kg	LEG 2	
12	3020	SP	400kg		
13	2170	SP	400kg		
14	3320	SP	400kg		
15	2470	SP	400kg		
16	3620	SP	400kg		
17	2770	SP	400kg	BLACK SMOTHER	
18	3920	SP	400kg		
19	4070	SP	400kg	BORDER	
20	4220	SP	400kg	LEG 3	
21	4370	SP	400kg	LX 2	
22	No Line			No Line	No Line
23	4670	SP	400kg		
24	4820	SP	400kg	MID TABS	
25	4970	SP	400kg		
26	5120	SP	400kg		
27	5270	SP	400kg		
28	5420	SP	400kg		
29	5570	SP	400kg	LEG 4	
30	5720	SP	400kg		
31	5870	SP	400kg		
32	6020	SP	400kg		
33	6170	SP	400kg		
34	6320	SP	400kg		
35	6470	SP	400kg		
36	6620	SP	400kg		
37	6770	SP	400kg	BORDER	
38	6920	SP	400kg		
39	No Line			No Line	No Line
40	7220	SP	400kg	LX 3	
41	No Line			No Line	No Line
42	7520	SP	400kg	LX 4	
43	7670	SP	400kg	Legs 5	
44	7820	SP	400kg		
45	7970	SP	400kg	Black Tabs	
46	8120	SP	400kg		
47	8270	SP	400kg		
48		SP	400kg	Panorama	
49		SP	400kg	Panorama	
50		MW	400kg	Counterweight Lift	

Weight distribution

Mid Gallery: 36 x 12kg weights and 12 x 6kg weights.

Upper Gallery: 36 x 12kg weights and 12 x 6kg weights.

Note: Remainder of weights are to be left at floor level.

Note: All counterweight must be returned to the above configuration after all productions and will be checked by the technician on duty before release.

Drapery

Type	Material	Colour	Width	Height	Qty
House Curtain	Wool	Orange	14M	8	1
Short Border	Wool	Black	14M	1.5	5
Legs	Wool	Black	2-3M	8	10
Tabs / Smother	Wool	Black	14M	8	2
Cyclorama	Sharks tooth	White	14M	8	1
Scrim	Sharks tooth	Black	14M	8	1

Note: All drapery visiting the Besen Centre requires a fire rating, please contact the technical manager if more information or assistance is required.

Access Equipment

Elevated work platform: 1 x JLG Battery powered single person lifter

Note: EWP restrictions are in force and all operators will need to provide proof of qualification to the technical manager or technician on duty before operation is allowed.

Ladders: 1 x aluminum extension ladder, extendable to a working height of 5m; harness will need to be worn above 2m.

Notes

All rigging must be cleared with the technician on duty. Any rigging to the grid floor or galleries must have the express permission of the technical manager.

All flown items must be rigged with rated equipment to be inspected and approved by the technician on duty.

All rigged items from an outside company will require a JSA to be supplied to the technical manager.

Flying people is permitted only with the express permission of the technical manager. Any flying of people will require the venues preferred rigger.

Lighting

Positions

Stage LX bars may be swung up to 1000 mm from their standard positions.

See hanging plot for standard LX bar locations

FOH Bridge

Setting Line to lighting bar 11.64 metres 55-degree angle

Usable bar width 10 metres

FOH Balcony

Setting Line to FOH Perch 15.95metres 5-degree angle

Perch (PS & OP)

Setting Line CL to FOH Perch 9.7metres various on height degree angle

Note: Perches provide difficult shots, as the location is very wide due to auditorium width. Useful only for downstage washes as per standard rig.

Lighting Desk

Maxim 60/120 with Pat Pad

Signal distribution

LSC DMX exchange routes DMX to various ports throughout building. Please contact venue for port locations.

Cat 5

6 x Cat5e lines run from control room to top of the grid with break in at VIP lounge patch panel and orchestra pit patch rack. Can support both Artnet and vision over cat5.

Dimmer/Relay Racks

The Besen Centre features 2.4kW and 5kW LSC Wallpak dimmers split between the onstage patch bay and the FOH Bridge. Onstage patch bay also features 2 x LSC Redback switch/relays

Total 2.4kw dimmer channels	84
Total 5kw dimmer channels	12
Total dimmer channels	96
Total switch relays	24

Lighting Notes

A copy of the standard rig is available in vectorworks format.

All changes to the standard rig will require permission from the technical manager.

All changes to the standard rig will require a plan and weight calculations to be completed and submitted to the technical manager.

All lighting equipment listed below is part of the standard rig.

Stage Luminaires

Profiles

Make	Model	Angle	Detail / Accessories	Watt	Total
ETC	Source 4	19	Iris/Shutters	700	32
ETC	Source 4	26	Iris/Shutters	700	2
ETC	Source 4 Zoom	15-30	Shutters	700	6

Fresnels

Make	Model	Detail / Accessories	Watt	Total
Prolight	1kW	Barn doors	1000	8
Prolight	2kW	Barn doors	2000	6

Par Cans

Make	Model	Angle	Detail / Accessories	Watt	Total
Kupo	Par 64	MFL	110 volt	1 kw	24

LED Fixtures

Make	Model	Detail / Accessories	Watt	Total
BAACLED	RGBW 3w	Single cell cyc LED units		12
BAACLED	RGBA 3w	Par can LED wash		22

Movers

Varies	Available at an additional charge
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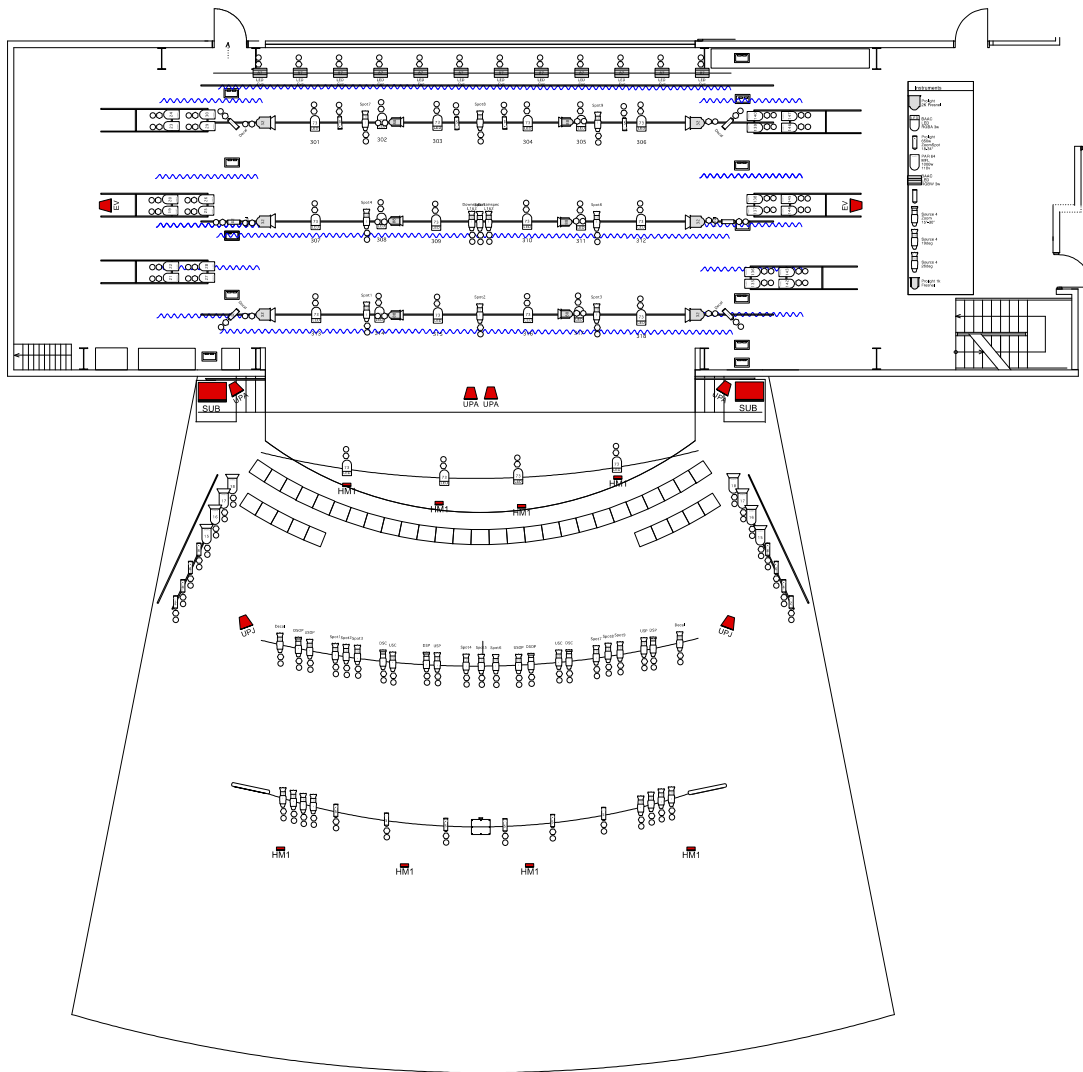
Followspots

Make	Model	Angle	Detail / Accessories	Watt	Total
Prolight	1200w discharge		Located in control room	1200	2

Other fixtures

Make	Model	Angle	Detail / Accessories	Watt	Total
Molfay	Kupo		2 Way Blinder	2 x 650	2
Strobe	Acme		Dmx Controllable	1200w	1

Lighting Plan



Lighting Patch Sheet

Please see end of document for current patch sheet.

Note: Patch Sheet may vary often and is placed here as reference only. Please contact the venue for current standard rig patch sheet.

House Lights

House lights are controlled from various panels located throughout the venue: Stage managers console; Control Room x 2; VIP lounge; manager's office; and wired remote. Fade times can be adjusted on request.

Power

- 2 x 3 phase 40 amp outlets PS onstage patch bay
- 1 x 3 phase 40 amp outlet PS stage managers console
- 2 x 3 phase 40 amp outlets OP Proscenium wall
- 2 x 3 phase 160 feeds US PS wall
- 1 x 3 phase 40 amp loading dock

Audio

FOH audio console:	M7CL 48
Backup audio console:	Soundcraft K2 48/8/2
FOH audio processing:	Yamaha DME

Standard mix position is from control room. Rear stalls mix position can be setup at additional cost and only by prior arrangement with technical manager.

Total seat allocation required for rear stalls mix position is 12; T19 through T24 and S19 through S24.

The Besen Centre audio system is run via two separate multicore systems.

Patch system 1: 24 channels with 4 returns from control room to prompt corner only.

Patch system 2: 36 channels in total distributed throughout the stage via 6 x 12ch stage boxes and orchestra pit patch rack.

Each stage box consists of 12 channels, the last 4 being dual sex XLRs to allow use as returns.

Stage box locations: grid; rear orchestra pit wall P; rear orchestra pit OP; OP downstage; OP upstage; and PS upstage

All stage boxes are terminated in the orchestra pit patch rack, which also includes the 36 channels from control room allowing patching to any location.

VIP lounge patch panel features TRS field allowing for insertion across all 36 channels and also routing to rear stalls mix position.

This allows 36 lines down from the control room, for items such as radio mics, in addition to 36 lines from the orchestra pit if required.

Speakers

2 x Meyer UPA1P	Left and Right Stalls located either side proscenium
2 x Meyer UPA1P	Centre Stalls and Centre Balcony located above proscenium
2 x Meyer UPJ	Left and Right Balcony located FOH bridge on wire rope winch
4 x Meyer HM1	Rear Stalls Fill located under balcony
2 x Meyer HSM	Subwoofer located under stairs to stage OP and PS

Foldback

2 x EV stage fill mounted to panorama centre ladders

2 x JBL eon 12" boxes

2 x Otto 12" boxes

Playback:

The Besen Centre can cope with various playback options these include

- 3 Denon CD players
- 1 Denon mini disk player
- 1 Denon MP3 various format player multi head
- 1 Mac mini running Qlab

Sound playback can be done from both stage and control room in various formats please contact technical manager for configuration.

Microphones

Make	Model	Detail / Accessories	Use	Total
Shure	Sm58	Microphone clips	Vocals and Instruments	6
AKG		Microphone clips	Omni area	4
Shure ULX radio	SM58/Lapel	Microphone clips	Vocals and Instruments	2
Shure	Lecturn mic	Microphone clips	Vocals	1

Note: The above is included in the standard rent: The Besen Centre has various additional microphones and radio mics available for hire. Please contact the technical manager for a quote or for further information.

Audio visual

Projector

Type	Model	Detail / Accessories	Total
Panasonic	PT-DX800ULK DLP	8000 ANSI Lumen Projector	1
		Additional Hire Charge	

Screens

Standard projection surface is the rear wall of the stage being 12m wide and 7m high.

Media servers can be added to this projection system for various configurations and surfaces.

AV Playback Equipment

Contact Technical manger to discuss your requirements.

Backstage

Stage Managers Console

Stage managers console located in prompt corner features television monitor; comms; audience recall button; and phone. Console has limited movement from standard position.

Talkback

The Besen Centre features a talkback system routed throughout the venue and consists of 1 x Creative Audio 2 Ring Master Unit in stage managers console and 7 x Creative Audio sub stations located throughout control room and fly tower.

Radio Units In-house N/A

Talkback patching located at

FOH control room; follow spots; rear stalls; centre stalls production area; OP floor level; OP mid gallery; OP upper gallery; stage managers console; PS floor level.

Paging / Show relay

Paging and show relay distributed to all dressing rooms, loading dock and BOH toilets.

Stage Monitor

TV monitor set on stage manager console, OP and P side of stage, Chorus rooms and rehearsal room.

Cue Light System

In house cue light system available N/A

Dressing Rooms

Dressing Room	Capacity	Toilets	Shower	Details
Principals	7	Shared		Showers available in male and female toilets
Chorus #1	20	Shared		Showers available in male and female toilets
Chorus #2	20	Shared		Showers available in male and female toilets
The Space	80	Shared		Showers available in male and female toilets

Laundry / Wardrobe

The Besen Centre features the following laundry facilities:

- 1 x Washing Machine
- 1 x Dryer
- 1 x Iron / ironing board
- 4 x costume racks in chorus dressing rooms

Production Facilities

Production Desk

Removable production desk is available to be set up in centre over seating

Production Office

2 production offices are available for client use. Both offices have access to external phone and fax lines if required.

Phone

Available via admin office.

Fax

Available via admin office.

Access to internet

Wireless access to guest network is available to production team only on request via technician on duty.

Green Room

The Besen Centre has a small green room BOH with instant boiling water unit and fridge with small kitchenette.

Stage Door

Stage door is located on the west side of building at the rear. Access path runs down the west side of building from FOH.

Additional Facilities and Information

Orchestral:

- Yamaha C5 tuned to A440
- Yamaha upright piano tuned to A440
- 40 Music stands
- 1 Conductors stand
- 40 Orchestra chairs
- 40 Sconce lights

Maintenance and OHS

The Besen Centre prides itself on running a very well maintained venue. We please ask that all people visiting the Besen Centre keep a close eye on operating systems and to report anything either unserviceable or faulty no matter how silly it might seem.

Please report any and all OHS issues direct to the technicians on duty; this includes those created by the clients' event or the venue. If no action is taken please contact the technical manager directly at any time.

JSA's will be required for some events if the technical manager believes one is required. These must be submitted to the technical manager before the event for approval. Failing to do so may result in a refusal for the intended work to take place and will be enforced.

Most events are protected by the technical staff of the Besen Centre and the OHS policies the venue has in place. Should the technician on duty require action to be taken an immediate response is required.

Should you have any concerns with the above please contact the technical manager for clarification.

Brad Alcock
Technical Manager
The Besen Centre