

*the Arts Centre*

Venue Technical Specifications

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**Sidney Myer Music Bowl**

## Document History

Revision #	Date	Author	Comments
9.0	6/7/2011	C. King	FOH Console update and some corrections
8.2	9 February 2011	C. King	Audience Capacity Amendment
8.1	12 October 2010	C. King	Amendments to Orchestra Pit & Stage Equipment
8.0	8 November 2009	C. King	Addition of Venue information
7.2	4 June 2009	C. King	2009 Equipment changes
7.1	10 Feb 2009	C. King	Minor electrical alterations
7.0	22 May 2008	C. King	Formatting change
6.0	8/12/04	K. Aspinall	Venue capacity defined.
5.2	29/11/04	N. Carroll	Minor adjustments
5.1	30/4/04	K. Aspinall	Lantern stock adjustment
5.0	30/1/04	K. Aspinall	Amended Stage Width
4.0	20/7/03	K. Aspinall	Major Lantern upgrade
3.2	30/12/02	K. Aspinall	Update contact information
3.1	29/08/02	C. Handley	- General Information, Contact Details
3.0	19/8/02	K. Aspinall	Revise Loudspeaker cabinet information
2.1	08/07/02	C. Handley	Venue Contacts

## General information

### Address

King's Domain  
 Linlithgow Avenue  
 Melbourne Australia 3004  
 Melway Reference  
[Sidney Meyer Music Bowl Map](#)

Ref 2F K8

### Postal Address

The Arts Centre  
 PO Box 7585  
 Melbourne Vic 8004  
 Australia

### Contacts

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Venue Technical Manager	+613 9281 8328
Operations Manager, Staging	+613 9281 8142
Operations Manager, Lighting	+613 9281 8365
Operations Manager, Sound	+613 9281 8138

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## Vehicle Access

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### Stage Get In

Vehicle entry is located at the junction of Linlithgow Avenue and Alexandra Avenue. There is sufficient space to park two semi-trailers side by side.

Only end loading is available and ramps to the trailer are required. The Loading Bay is situated on the PS (SL) side of stage with the following dimensions.

Maximum height 4.500m  
Maximum width 8.000m

Access to stage from the loading bay and backstage areas is available through three doors

Door	Type	Width (m)	Height (m)
Prompt Side (SL)	Tilt-a-door	3.600	3.200
Upstage Centre	Sliding Door	3.000	3.000
OP Side (SR)	Sliding Door	3.600	3.200

### Car Parking

Fifteen car spaces are available at the venue and allocated at the discretion of the Presenter. When large vehicles (particularly articulated trucks) are on site, the Arts Centre recommends these spaces not be available to better facilitate turning circles.

Additional street parking may be applied for by the Arts Centre through the City of Melbourne. Contact the Venue Manager for further information.

### Lifting Equipment

The Arts Centre only permits certain types of Forklifts on site. For details contact the Venue Technical Manager..

A Forklift Safety Checklist from Worksafe Victoria shall be completed prior to use.

[Worksafe Victoria Forklift Safety Checklist](#)

### Site Access

The maximum size vehicle past Gate 3 and 4 is a Heavy Rigid 3 axle truck

Maximum container length: 6.058m (20')

Maximum Gross weight: 24,000kg

#### Note

- When an Event Risk Assessment determines a Traffic Management Plan is required, this will be submitted to the Arts Centre with the Event Risk Assessment.
- A traffic controller may be required depending on the amount of infrastructure and associated vehicles that are required for the event. This will be on charged to the Presenter.

## Auditorium and Seating information

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### Venue Capacity

Area	Stalls	Boxes	Total
Reserved Seating	1932	218	2150
Lawn Area General Admission ( <i>see note below</i> )	7500	-	7500

#### NOTE

- o The Lawn Area capacity above is based on 1m<sup>2</sup> per person. Any other capacity is determined by application and the type of performance. Contact the Venue Manager for further information.
- o Audience capacity for festival style events with multiple stages may be increased at the discretion of the Arts Centre based on an Event Plan and Risk Assessment.
- o In concert configuration a total capacity of up to 13,200 is possible with restricted sightlines and subject to application.

### Auditorium Seating

The seating area in front of the stage comprises 26 curved rows, on a tiered concrete platform. A seating plan is available from the link below.

[http://www.theartscentre.com.au/media/15948/box\\_office\\_sm\\_stalls\\_seats.pdf](http://www.theartscentre.com.au/media/15948/box_office_sm_stalls_seats.pdf)

### Lawn Area

The audience area behind the fixed seating is a sloped lawn. The slope of the lawn is 10° from the stage and at the rear of the lawn is approximately 14 metres above stage level.

The Lawn seating area capacity is based on 1m<sup>2</sup>/person which can vary depending on the event.

In concert configuration a capacity of 13,200 is possible with restricted sightlines.

### Public Amenities

No. of patrons	Existing SMMB facilities adequate	City of Melbourne toilets recommended	City of Melbourne toilets required	Additional facilities required
5000	✓			
7500	✓	✓		
10,000			✓	
13,200			✓	1 First Aid room
15,000			✓	1 First Aid room 12 drinking fountains
20,000			✓	1 First Aid room 45 drinking fountains 8 female WCs

## Stage Details

### Dimensions

#### Stage Width

Wall to wall at setting line	33.350m
Wall to wall US wall	21.516m
Distance between Up/Down stage trusses	5.150m

#### Stage Depth at centreline to US Wall

Setting Line	18.230m
Underside of T3	12.365m
Underside of T4	23.515m

#### Stage Height at centreline

Stage floor to underside of canopy roof DS	10.925m
Stage floor to underside of canopy roof US	7.443m
Stage Floor to underside of T3	8.124m
Auditorium floor to underside of T4	12.525m
Stage floor to underside of Truss at US wall	6.579m
Above Stalls auditorium	1.220m
Auditorium floor to main canopy cable	21.500m

At stage edges to canopy DS	9.600m
At stage edges to canopy US	6.850m

Two curved support trusses (T3 and T4) span across stage and are intersected by five trusses spanning up and down stage (A, B, C, D, E). These heights should be read in conjunction with the stage plans.

Location	Upstage Trusses (metres) Intersection				
	1A	1B	1C	1D	1E
At Upstage Wall	5.200	6.200	6.500	6.200	5.200
At Truss T3	6.600	7.800	8.100	7.800	6.600
	Downstage Truss (metres) Intersection				
	2A	2B	2C	2D	2E
At Truss T3	6.600	7.800	8.100	7.800	6.600
At Truss T4	9.700	10.900	11.300	10.900	9.700

#### NOTE

- For a more comprehensive layout and description of the structural grid, contact the Venue Manager

### Stage Description

Rake	None
Main stage area	465.00m <sup>2</sup>
Maximum floor loading	750 kg/m <sup>2</sup> UDL
Maximum floor point load	1000 kg
Surface	19mm plywood on top of 2 x 25mm F17 plywood

#### NOTE

- The Setting Line is the downstage edge of the main stage.
- For more information on floor loadings, contact the Operations Manager, Staging

### Rigging Hardware

### Standard Configuration

Quantity	Equipment	Standard position	Dimensions
3	Loadstar Motor Chain Hoists Motor Up	FOH lighting Truss	1 tonne
6	Box Truss sections	FOH Lighting Truss (24m total length)	400mm x 400mm x 4m
13	Loadstar Motor Chain Hoists	Onstage trusses	1 tonne
10	Loadstar Motor Chain Hoists	Speaker points	1 tonne

### Other available equipment

Quantity	Equipment	Comments
42	4 m x 400mm x 400mm aluminium box truss	
5	Loadstar motor chain hoists	
1	8-way motor chain hoist control	

**NOTE**

- o Assorted slings and rigging equipment are available upon request.

### Stage Equipment

Drape	Quantity	Width (m)	Height (m)	Fullness	Colour	Material	Comment
Tabs	4	6.100	7.320	0%	Black	Wool	
Masking Flat	18	1.800	3.600		Black	Steel/Ply	
Rostra	18	2.0x1.0	200, 400, 600, 800, 1000			Aluminium /Ply	

## Canopy Loadings

### T1A-E & T2A-E Permissible Loads

Truss Number	Max point Load	Max # Points	UDL
Truss 1A	1,100kg	5	5,500kg
Truss 1B	1,100kg	5	5,500kg
Truss 1C	1,100kg	5	5,500kg
Truss 1D	1,100kg	5	5,500kg
Truss 1E	1,100kg	5	5,500kg
Truss 2A	1,100kg	5	5,500kg
Truss 2B	1,100kg	5	5,500kg
Truss 2C	1,100kg	5	5,500kg
Truss 2D	1,100kg	5	5,500kg
Truss 2E	1,100kg	5	5,500kg

### Canopy Main Cable

The maximum acceptable load is 3000kg on each of two points. Each point must be spread over at least 3m of the main cable.

#### NOTE

- o To comply with load guidelines, each maximum point load must be equi-distant.
- o For a more comprehensive description of structural loadings, contact the Operations Manager, Staging.

### Structural Grid

Two permanent support trusses spanning across stage can support the following:

#### T3

Description	Maximum Load
At Intersections with T1 and T2 trusses	5,500 kg
With no load on T1 or T2 trusses	2,800kg/m

#### T4

Description	Maximum Load
At Intersections with both T2	2,750 kg
With no load on T2 trusses	1000 kg/m

#### NOTE

- o In addition to the above, Trusses T3 and T4 will support an additional 280kg/metre.

## Stage Lighting Facilities

Default Control Position	lighting control position at rear of auditorium seating
Width	7.400m
Depth	2.700m
Cable length required to stage (min)	65.000m

**NOTE**

- o Control position is shared with Sound and is open to the elements.
- o A walk through tunnel exists from the stage to the rear of the stalls auditorium for presenters.

## FOH distances to setting line

Position	Distance to setting line	Angle to setting line
Followspot position	37 m	12°
FOH Lighting Truss	14.957m	40°
Control Position	27.000m	5°

## Control System

- Strand 300 series; 250 Channel DMX Lighting Console with GeniusPro™ software suite
- Offline editing & printing services are available upon request

**NOTE**

- o Patchable Ethernet and DMX outlets are available. For more information, contact the Operations Manager, Lighting.

## Dimmers

Quantity	Type	Protocol	Capacity
216	LSC EPro dimmers	DMX	2.4kw
36	LSC EPro dimmers	DMX	5kw

242 Total Dimmers

## Stage Lanterns

Type	Quantity	Beam Angle	Power
ETC Source4 Par	100	N/A	750W
Pollux Fresnel	2	12.5 – 56.5°	5kw
Selecon PC	12	5 – 60°	1.2kw
Selecon Fresnel	10	8 – 60°	2kw

## Accessories

All lanterns have accessories available. Presenters should consult with the Operations Manager, Lighting to confirm details and quantities

- All Fresnel's have 4 leaf barn doors

## Venue Electrical Facilities

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### Site Three Phase Power

Quantity	Location	Amps /Outlet 3Ø	Connect
Stage Area			
1	Loading Dock	400A	Power Lock connection
1	DSOP	300A	Power Lock connection (400A size)
1	DSPS	300A	Power Lock connection (400A size)
1	DSOP	40A	5 Pin
1	DSPS	40A	5 Pin
1	USOP	40A	5 Pin
1	USPS	40A	5 Pin
1	PS Follow Spot	40A	5 Pin
1	OP Follow Spot	40A	5 Pin
Control Position			
General Site			

#### NOTE

- o The above list does not include power dedicated to audio.
- o All mains electrical connections & disconnections are only carried out by Arts Centre electricians

### Electrical Alterations

No alterations to the buildings electrical system are permitted without the express permission of the Arts Centre Facilities Group. Where minor alterations are required for an event, a request is required in writing and the work shall only be carried out by Arts Centre qualified electricians.

### Single Insulated Cable

No single insulated cable is permitted to be connected to any Arts Centre power source. This applies to all voltages including extra low voltage (under 32 volts).

### Test and Tag

All electrical appliances shall be tagged with an appropriate safety tag in accordance with AS 3760:2003

## Sound Facilities

Default Control Position	Sound Control Room at of auditorium seating
Width	7.400m
Depth	2.700m
Cable length required to stage (min)	65.000m

### NOTE

- o Control position is shared with Lighting and is open to the elements.
- o A walk through tunnel exists from the stage to the rear of the stalls auditorium for presenters.

## FOH Console & Processors

There is a small console available upon request.

## Speaker System

The sound system is configured as a Left, Centre & Right system.

Position	Speakers	Comments
<b>Row 1</b>		
Left	2 x MSL4, 1, PSW2, 1 x CQ1, 1 x UPA-2P	UPA cabinet is for side seating fill
Centre	2 x MSL4, 1, PSW2, 1 x CQ1	
Right	2 x MSL4, 1, PSW2, 1 x CQ1, 1 x UPA-2P	UPA cabinet is for side seating fill
<b>Row 2</b>		
Left	2 x MSL4, 1, PSW2, 1 x UPA-2P	UPA cabinet is for side seating fill
Centre	2 x MSL4, 1, PSW2, 1 x CQ2	
Right	2 x MSL4, 1, PSW2, 1 x UPA-2P	UPA cabinet is for side seating fill

### NOTE

- o There is no standard foldback equipment provided. Contact the Operations Manager, Sound to discuss particular requirements you may have
- o The standard configuration is not designed to cover the entire lawn area. Additional loudspeakers are required for this. Contact the Operations Manager, Sound for more information

### Inputs

Quantity	Position
16	USOP
16	USPS
16	DSOP
16	DSPS
2	Roof Truss
16	DS edge of stage traps

## Audio Three Phase Power

Quantity	Location	Amps /Outlet 3Ø	Connect
3	Loading Dock	40A	5 Pin
1	DSOP	40A	5 Pin
1	DSPS	40A	5 Pin
1	DSPS	300A	Power Lock connection (400A size)
2	USOP	40A	5 Pin
2	USPS	40A	5 Pin
1	Control Position	40A	5 Pin

### NOTE

- o Extra speakers, microphones, consoles, cables and effects units are available to augment the systems. Please contact the Operations Manager, Sound for further information.

## Stage Management Facilities

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Standard Operating Position  
 Alternate Operating Position

PS of stage  
 OP Side of stage

The Stage Management Console contains all standard facilities including:

- Auditorium announcement
- BOH Paging
- 5 Channel Cue light system to specific areas
- Telephone and Ethernet possible
- ClearCOM™ Talkback 2 channel Master Station
- Clock & Timer

## Talkback Allocation

Equipment available	
7	Single Loop wired beltpack
4	Dual Loop wired beltpack
7	Beyer DT108
2	Sennheiser HMD410

## Summary Information for the Promoter and Sound Engineer

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The Sidney Myer Music Bowl operates under strict noise control limits and legislation placed upon the venue and its operators by the Victorian Environmental Protection Authority (EPA). This page outlines the requirements of the detailed Noise Management Plan (NMP) that has been prepared for the venue. The detailed NMP has been prepared to allow the Arts Centre and users of the SMMB to comply with their environmental obligations, minimise the potential for noise disturbance in the community, and allow the ongoing operation of the SMMB in a sustainable manner.

### Noise and Time Limits

Music noise from events at the bowl must not exceed an 'average' noise level measured over 15 minutes of:

65 dB(A) (LAeq,15min) outside any potentially affected receiver.

The venue may only operate within the following time constraints when an event is:

5 hours or less in duration:	12 Noon – 11pm
Greater than 5 hours	12 Noon – 10pm

### Other Requirements

The promoter, act and sound system provider must:

- Read and understand the detailed Noise Management Plan for the SMMB.
- Design the event sound system to minimise noise spill to the environment, in particular by using highly directional sound systems designed to provide coverage of the required audience area only.
- Provide details of the sound system type and orientation, and noise modelling for the equipment proposed to be used, modelled with the appropriate array calculation software related to the equipment to demonstrate that the sound system minimises noise spill to the environment.
- Liaise with the Arts Centre's Operations Manager, Sound, and the Arts Centre's independent acoustic consultant.
- Provide the Arts Centre and independent acoustic consultant with direct contact details for the event manager, sound manager and mixing desk operators
- Comply with directions from the Arts Centre and/or noise consultant to reduce noise levels, where measured noise levels exceed the criteria and a reduction is necessary to come into compliance with the legislative requirements.

### Acknowledgement

By signing the hirer agreement, the Promoter acknowledges that they have read and understood the Noise Management Plan, and take responsibility for the Act and sound system provider to comply with the noise and time limits.

### Compliance

Failure to comply with the requirements of the legislation and the NAP may result in a substantial fine. For further information contact the Venue Technical Manager.

### Pianos

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There are no pianos allocated to the Sidney Myer Music Bowl. However, pianos can be arranged upon request at the expense of the Presenter.

### Assistive Listening System

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The Arts Centre provides a phonic ear radio transmitter system for its patrons. It includes headsets and neck loops to assist with hearing of performances and all seating positions are covered. For more information, contact the Operations Manager, Events.

## Environmentally Sustainable Events

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The Arts Centre can assist with companies wanting to measure their impacts to make an event a "green" event. For more information please contact the Manager, Presenter Services.

## Smoking

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Smoking within the building of the Sidney Myer Music Bowl is prohibited. Smoking within outdoor areas of the venue is not prohibited but the Arts Centre encourages a smoke free environment.

## Food and Beverage

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Epicure Catering has an exclusive licence to supply catering services at all events. In relation to backstage catering only, presenters may select alternative food and beverage service providers. Retail catering requirements depend upon size and type of event. The Arts Centre has standard layouts available upon request. Contact the Venue Manager for details

## Safety Requirements

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### Risk Assessment

All Presenters shall present an Event Risk Assessment to the Victorian Arts Centre Trust for review and comment. Templates and assistance can be provided, please contact the Venue Manager for more details

### Site Boundaries

A boundary fence is erected at the Sidney Myer Music Bowl each year prior to the commencement of the summer concert season. The main body of the fence remains in position during the season with gate entrance panels removed for all free events where practical.

- A Risk Assessment shall determine if a second fence is required for an event.
- The Arts Centre, in collaboration with the City of Melbourne may grant up to six fence extensions per year within a tightly enforced expanded footprint. An application is required at least three months prior to the event date.

### Stage Safety

- All scenery, props, masking etc must be rendered non-flammable to the satisfaction of the Victorian Arts Centre Trust.
- A Flammables Cabinet is available upon request. Presenter is to provide their own lock & key. A key is to be left with Security
- Notification of hazardous Performance Conditions shall be completed and returned to the Arts Centre where there is any use of naked flame, pyrotechnics, aerotechnics, weapons, firearms, explosives, smoke or other special effect during an event.

#### NOTE

- For more information about safety requirements please contact the Venue Manager.

### Crowd Control

An Arts Centre safety and security officer (SSO) is required on site for the duration of the event including bump in and bump out. For event security and crowd control, Presenter's can select a company from the Arts Centre's approved panel of providers. The Arts

Centre's Security Manager will oversee the process. The company chosen will be employed by the Arts Centre and on-charged to the Presenter.

### **First Aid Requirements**

The Arts Centre reserves the right to require such medical, safety & security staff or infrastructure as it deems necessary to ensure that an event is of a safe and secure standard for all staff and patrons. Any associated costs will be recovered from the hirer

### **Temporary Structures**

All temporary structure designs must be presented to the Arts Centre for approval and conform to Australian Standards and the City of Melbourne. Some areas of the Sidney Myer Music Bowl are structural and therefore have specific maximum loadings. The Arts Centre shall determine if advice from a structural engineer is required. See the Site Plan for detailed information.

### **Fireworks**

The Presenter shall inform the venue of any potential for fireworks, pyrotechnics and special effects. A Notification of Hazardous Performance Conditions Form must be completed. All fireworks and pyrotechnics shall meet with current safety regulations and a licensed, approved company shall be used.

## Broadcast, Telecast & Recording

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The video and/or sound recording of a performance at the Arts Centre for any purpose requires the written approval of an appropriate representative of the Trust.

Presenters proposing to videotape or telecast performances should arrange a briefing with your Event Coordinator from Presenter Services.

Recordings require the presenter to have obtained the necessary clearances from the performers taking part and to give certain undertakings in relation to copyright, and payment to technicians. The Recording Form (Appendix D), forms part of the Presenter Licence Agreement. Broadcast allowance and associated on-costs apply for the recording for live or delayed broadcast. Details are in Appendix D of the Presenter Licence Agreement.

### Video Recording

Where approval has been granted to a presenter for a public performance to be given under television conditions, all publicity and advertising for the attraction must clearly state that the performance will be televised and that such conditions will apply. It follows that arrangements to televise a performance cannot be entered into after tickets have been sold to the public.

### Sound Recording

Sound recording of a performance for commercial or non-commercial performances requires the approval of an appropriate representative of the Trust. Details are in Appendix D of the Presenter Licence Agreement. Broadcast Allowance and associated on costs apply to the recording of live or delayed broadcast.

### Archival Recording

Archival recordings are a simple record of the event. It is assumed that any flaws in the final recording will be inconsequential. If your recording is of importance, please contact the Sound Department. Details are in Appendix D of the Presenter Licence Agreement

Recordings, other than archival, are subject to separate arrangement with the Operations Manager, Sound. Please note extra sound technicians may be required to operate the equipment.

### Photography

Photography is prohibited anywhere in the venue without the prior authority of an appropriate representative of the Trust. Permission to photograph performances is not unreasonably withheld provided the taking of photographs is arranged in such a way so as not to cause nuisance either to patrons or to performers.

Under no circumstances will patrons be permitted to take photographs in the auditorium.

The removal and reinstatement of seating for filming or photographic purposes will be charged to the Presenter.

### Wardrobe Facilities

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There is a washing machine and dryer available for use on site however there is no dedicated laundry facilities.

Washing Machine  
Industrial Dryer

Speed Queen industrial washing machine  
Speed Queen industrial dryer

