

156 Armagh Street, Christchurch Central 8011 New Zealand

www.thepiano.nz

Technical Specifications



General Information

Contact & Further Information

For any questions regarding technical specifications at The Piano, please contact:

Marcus Norman | Director +64 3 377 5000 marcus@thepiano.nz

Air Conditioning

The Philip Carter Concert Hall and its associated dressing rooms are fully air-conditioned. The air conditioning in the Concert Hall is operated as a displacement system, with conditioned air being delivered to the space via a floor plenum system and returned to a central air handling unit via high level return grilles. The system has been specified and installed to confirm to strict acoustic criteria. The Stage Manager Room, AV-Tech Room and Green Rooms are also provided with local air conditioning systems with user interfaces.

Concert Hall Access

Artist access to the Concert Hall is via the stage door at the rear of the concert hall, through the car park.

Disabled Access

The stage of the Concert hall is accessible by disabled persons.

Dressing Rooms

Three dressing rooms are available to Hirers of The Philip Carter Concert Hall. All dressing rooms have toilets and one has a shower.

Fire Services

Use of a smoke machine, hazer, or anything that is likely to trigger the venue smoke detectors will require the alarm system to be isolated, at an additional cost. The isolation can only be performed by appropriate venue staff and must be approved by The Piano and The Piano's insurance company two weeks prior. On occasion, additional venue staff may be required to ensure adequate fire monitoring.

Any charges arising from false alarms, including the cost of Fire Brigade attendance are the responsibility of the Hirer.

Green Room

The Green Room is located behind the Concert Hall.

Insurance

Details of insurance are provided with the venue hire agreement.

Laundry Facilities

Laundry facilities are not available.

Loading Access

The Concert Hall has a loading dock facility.

The loading dock is accessible from the rear of the car park and provides access to the Concert Hall.

Loading Dock Height: 0.8m

Loading Door Height: 2.11m, Width: 1.68m

Concert Hall Entry Door Height: 2.18m, Width: 1.68m

There is also a ground-level side entrance accessible from the car park which provides access to the Concert Hall.

General Information

Pianos

The following pianos are available for hire in the Philip Carter Family Concert Hall:

- 1 Steinway B Grand Piano
- 1 Steinway D Concert Grand Piano

Other pianos available for hire:

- 1 Yamaha C5 Grand Piano
- 1 Yamaha C3 Grand Piano
- 1 Yamaha Upright
- 1 Kawai Upright

Power

The Piano has a mixture of 10A single phase socket outlets both for general use and audio-visual systems. The audio-visual outlets are located in the Stage Managers Office & the AV Tech Room, with a majority on the Stage. The audio-visual socket outlets are clearly identified as such and operate via a technical earth system. The audio-visual distribution board is also equipped with surge protection filters for additional protection of expensive electronic equipment.

Smoking

The Piano is a non-smoking venue. By law smoking can only take place in Designated Smoking Areas

Rigging Overhead

Access to rigging is via a scissor lift. A machine with four wheels no heavier than 2 tonnes in total can go over the floor only if 20mm plywood sheets are put under the wheels for protection and load distribution. The plywood is available on site.

Rubbish

All Hirer rubbish must be removed from the Concert Hall and dressing rooms at the conclusion of bump out. A small amount of rubbish can be disposed of in the venue bins but excess usage will incur charges.

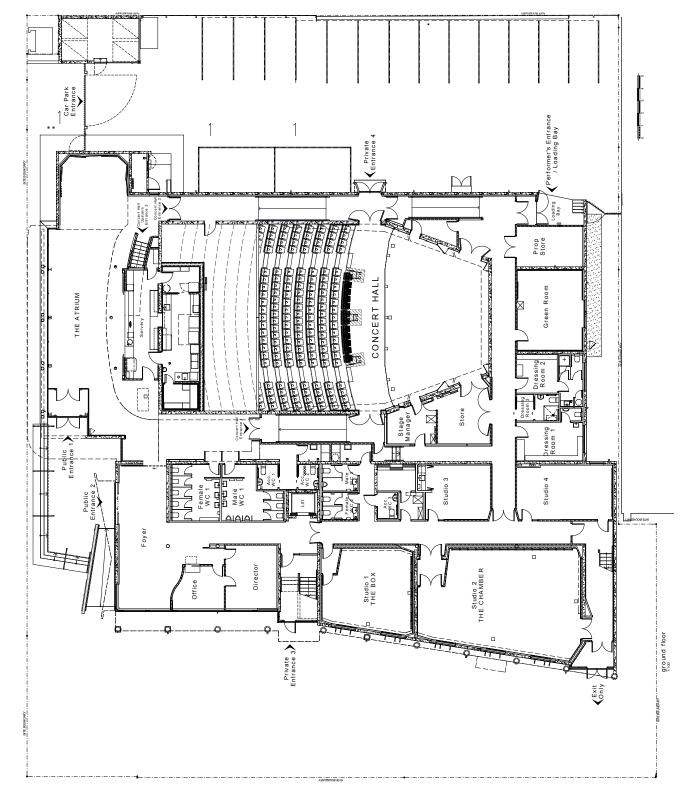
Stage Management System

The Stage Managers Desk (SMD) is located stage left at back of Concert Hall.

WiFi

Event specifics set up cost applies

High density, performance critical WiFi



Room Capacities

Venue Facilities

	Cocktail	Orchestra	Theatre
Concert Hall	-	_	325
Concert Hall Stage Size: 96 sq m	100	60	-
Atrium Size: 180 sq m	120	-	-
The Chamber Size: 100 sq m	80	-	80
The Box Size: 50 sq m	40	-	30
Studio 3 / Boardroom Size: 25 sq m	_	_	_

Front of House Facilities

- Full bar available (license from 9:00am midnight)
- Atrium suitable for pre-show, post show, launches and cocktail functions
- · Wireless internet available

Catering Facilities

- Fully equipped catering kitchen
- Preferred caterers: Lizzies Cuisine, Victoria Foods, Simply Catering, The Social Platter Co, The Catering Dept.

Conference Facilities

Equipment available for hire:

- · Data projector/screen in Concert Hall
- 1x Lectern
- Hand held and wireless mics in Concert Hall
- 2x 65 inch TV's

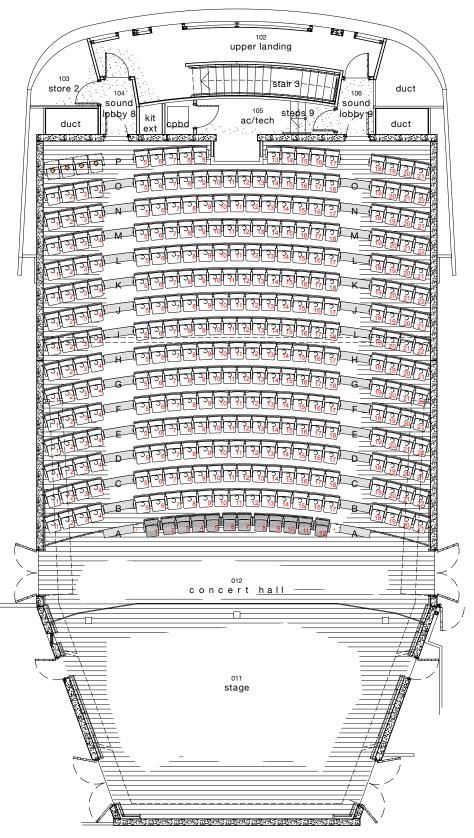
Backstage Facilities

- · Green room with kitchenette
- 3 dressing rooms
- 50 music stands
- · Conductor's rostrum

Seating Information

Concert Hall Seating Plan

There are 325 seats available in the Concert Hall. The entire first row (Row A, seats 1-12) is removable. If 1-2 wheelchair spaces are required, seats 1 and 12 are easily removed. If more than 2 wheelchair spaces are required, seats 6&7, or the entire row can be removed.



Staging Information

The Concert Hall does not have a fly tower or Proscenium Arch.

Stage Floor

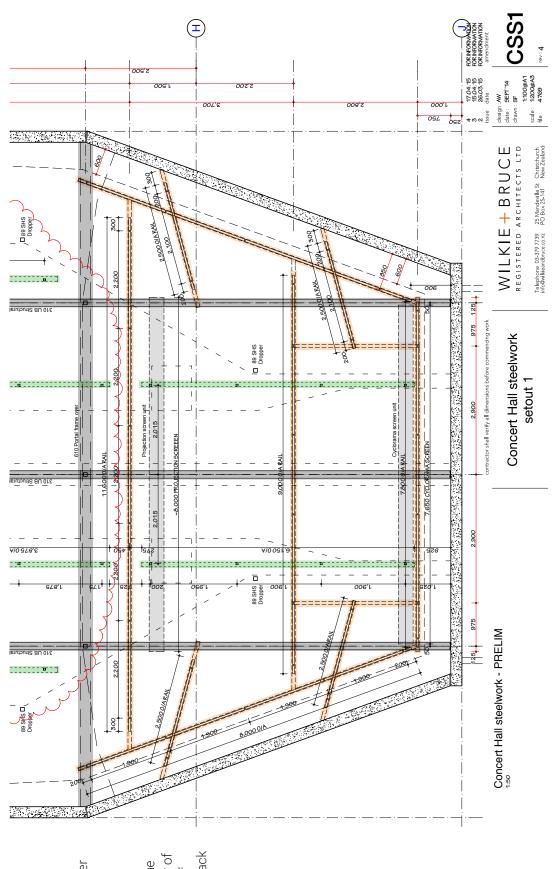
The stage is a sprung timber dance floor.

Drapes

The standard masking in the space consists of: •2 x pair of legs, 1 pair towards front of stage and 1 pair towards back of stage. Full height, width customizable up to 2.4m.

ligging

No in house rigging.



Concert Hall Grid Plan

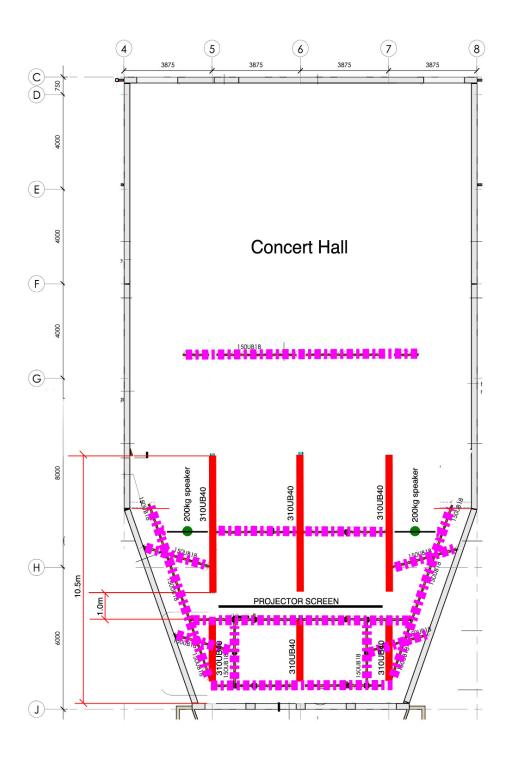
Lighting Bar Loading

The maximum load on any scaffold tube lighting bar including clamps, fixings, hoists etc shall be no greater than 100kg per lineal metre of scaffold bar, and only in positions marked thus:

310UB Loading

.................

The maximum load on any 310UB including clamps, fixings, hoists etc shall be no greater than 250kg per lineal metre of 310UB, and only in positions marked thus:



Lighting Information

Rigging And Height Access

- Seven horizontal overhead rigging bars are provided, one forward of the stage, 4 over stage, and two side light. These bars are approximately 7.8m above stage height.
- Two vertical 'boom bars' are provided forward of the stage.
- Access equipment to lighting bars: No access equipment is available 'in house'. Over stage lighting can be accessed using a 6m scissor lift (Note – 20mm Ply sheets must be used to protect stage floor). FOH lighting bar access.

Power Supply and Mains Waylines

- 72 x 10amp rated home run waylines are run from lighting rigging positions to patch panel in stage mangers room on stage left.
- 2 x 32amp three phase (PDL 56 series) outlets are provided here.
- 16 x 10amp single phase outlets are provided here.
- 1 x 10amp single phase outlet is provided at the control room.

DMX 512 Stage Lighting Data System

- One DMX outlet is provided at each of the rigging positions. (See lighting plan)
- Two DMX circuits are provided at the control position to patch.
- A DMX patch is provided in the stage managers room.
- An 8-way 5-pin XLR data splitter is provided.
- All DMX outlets are terminated as 5-pin XLR.

Luminaires

General Frontlight - the stage is divided into 15 areas (3 rows of 5). The downstage two rows are lit with 20 x Philips Selecon Rama LED Fresnels (2 units into each area). The upstage row is lit with 5 x Showtec Performer DDT Fresnel

- 10 x Philips Showline Punchlite 220 RGBW LED Pars provide top light, one for each of the 10 downstage and midstage areas.
- 8 x Philips Showline Punchlite 220 RGBW LED Pars provide high side light, four per side.
- 4 x Frezno 150 Hex Fresnels provide low FOH sidelight, 2 from each FOH perch position.
- 10 x Philips Selecon PLCYC1 Mk2 RGBW Cyclorama Lights for the rear wall and dropdown cyc.
- 4 x Chauvet Ovation F-265WW fresnels provide downstage centre top lighting for small chamber configuration.

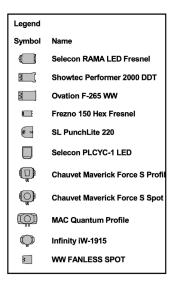
A moving head rig is installed, consisting of the following:

- 6 x Chauvet Maverick Force S Profile with framing shutters on FOH pipe.
- 5 x Chauvet Maverick Force S Spot as backlights on upstage pipes.
- 4 x Infinity iW-1915 RGBW wash as backlights on upstage pipe.
- 4 x Martin MAC Quantum LED moving head profile over stage.

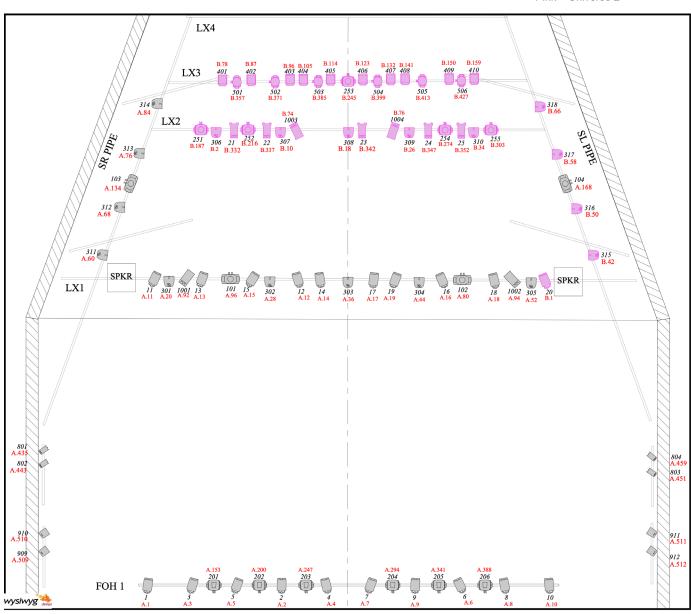
Control

- Control console- High End Hedgehog 4N, complete with MiniWing4.
- · Located in control room at rear of Auditorium.

Stage Lighting Plan



Black = Universe 1 Pink = Universe 2



Lighting Patch Sheet

Channel	Patch	Position	Туре	Focus	Data Circuit	Power Circuit	Mode
1	A.1	FOH1	RAMA LED Fresnel	DS Wash	DMX11	36	1 Ch
2	A.2	FOH1	RAMA LED Fresnel	DS Wash	DMX11	33	1 Ch
3	A.3	FOH1	RAMA LED Fresnel	DS Wash	DMX11	36	1 Ch
4	A.4	FOH1	RAMA LED Fresnel	DS Wash	DMX11	33	1 Ch
5	A.5	FOH1	RAMA LED Fresnel	DS Wash	DMX11	33	1 Ch
6	A.6	FOH1	RAMA LED Fresnel	DS Wash	DMX9	28	1 Ch
7	A.7	FOH1	RAMA LED Fresnel	DS Wash	DMX9	28	1 Ch
8	A.8	FOH1	RAMA LED Fresnel	DS Wash	DMX9	25	1 Ch
9	A.9	FOH1	RAMA LED Fresnel	DS Wash	DMX9	28	1 Ch
10	A.10	FOH1	RAMA LED Fresnel	DS Wash	DMX9	25	1 Ch
11	A.11	LX1	RAMA LED Fresnel	MS Wash	DMX8	43	1 Ch
12	A.12	LX1	RAMA LED Fresnel	MS Wash	DMX8	41	1 Ch
13	A.13	LX1	RAMA LED Fresnel	MS Wash	DMX8	43	1 Ch
14	A.14	LX1	RAMA LED Fresnel	MS Wash	DMX8	41	1 Ch
15	A.15	LX1	RAMA LED Fresnel	MS Wash	DMX8	43	1 Ch
16	A.16	LX1	RAMA LED Fresnel	MS Wash	DMX8	38	1 Ch
17	A.17	LX1	RAMA LED Fresnel	MS Wash	DMX8	40	1 Ch
18	A.18	LX1	RAMA LED Fresnel	MS Wash	DMX8	38	1 Ch
19	A.19	LX1	RAMA LED Fresnel	MS Wash	DMX8	40	1 Ch
20	B.1	LX1	RAMA LED Fresnel	MS Wash	DMX5	38	1 Ch
21	B.332	LX2	Showtec Performer 2000 DDT Fresnel	US Wash	DMX7	52	5 Ch
22	A.16	LX1	Showtec Performer 2000 DDT Fresnel	US Wash	DMX7	52	5 Ch
23	A.17	LX1	Showtec Performer 2000 DDT Fresnel	US Wash	DMX7	50	5 Ch
24	A.18	LX1	Showtec Performer 2000 DDT Fresnel	US Wash	DMX7	50	5 Ch
24	A.19	LX1	Showtec Performer 2000 DDT Fresnel	US Wash	DMX7	50	5 Ch
101	A.96	LX1	MAC Quantum Profile	LX 1 Mover	DMX8	44	16-Bit - 19 Ch
102	A.115	LX1	MAC Quantum Profile	LX 1 Mover	DMX8	39	16-Bit - 19 Ch
103	A.134	SR SIDE	MAC Quantum Profile	SR Side Mover	DMX8	39	16-Bit - 19 Ch
104	B.168	SL SIDE	MAC Quantum Profile	SL Side Mover	DMX5	44	16-Bit - 19 Ch
201	A.153	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX11	31	47 CH
202	A.200	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX11	32	47 CH
203	A.247	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX11	31	47 CH
204	A.294	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX9	30	47 CH
205	A.341	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX9	29	47 CH
206	A.388	FOH1	Chauvet Maverick Force S Profile	FOH Mover	DMX9	30	47 CH

Lighting Patch Sheet

Channel	Patch	Position	Туре	Focus	Data Circuit	Power Circuit	Mode
251	B.187	LX2	Chauvet Maverick Force S Spot	MS Mover	DMX7	53	29 Ch
252	B.216	LX2	Chauvet Maverick Force S Spot	MS Mover	DMX7	53	29 Ch
253	B.245	LX2	Chauvet Maverick Force S Spot	MS Mover	DMX6	60	29 Ch
254	B.274	LX2	Chauvet Maverick Force S Spot	MS Mover	DMX7	47	29 Ch
255	B.303	LX2	Chauvet Maverick Force S Spot	MS Mover	DMX7	47	29 Ch
301	A.20	LX1	SL PunchLite 220	DSR	DMX8	41	8-Bit Simplie - 8Ch
302	A.28	LX1	SL PunchLite 220	DSC/R	DMX8	41	8-Bit Simplie - 8Ch
303	A.36	LX1	SL PunchLite 220	DSC	DMX8	41	8-Bit Simplie - 8Ch
304	A.44	LX1	SL PunchLite 220	DSC/L	DMX8	37	8-Bit Simplie - 8Ch
305	A.52	LX1	SL PunchLite 220	DSL	DMX8	37	8-Bit Simplie - 8Ch
306	B.2	LX2	SL PunchLite 220	USR	DMX7	51	8-Bit Simplie - 8Ch
307	B.10	LX2	SL PunchLite 220	USC/R	DMX7	51	8-Bit Simplie - 8Ch
308	B.18	LX2	SL PunchLite 220	USC	DMX7	48	8-Bit Simplie - 8Ch
309	B.26	LX2	SL PunchLite 220	USC/L	DMX7	48	8-Bit Simplie - 8Ch
310	B.34	LX2	SL PunchLite 220	USL	DMX7	48	8-Bit Simplie - 8Ch
311	A.60	SR SIDE	SL PunchLite 220	DSR	DMX8	72	8-Bit Simplie - 8Ch
312	A.68	SR SIDE	SL PunchLite 220	MSR	DMX8	72	8-Bit Simplie - 8Ch
313	A.76	SR SIDE	SL PunchLite 220	MSR	DMX8	72	8-Bit Simplie - 8Ch
314	A.84	SR SIDE	SL PunchLite 220	USR	DMX8	72	8-Bit Simplie - 8Ch
315	B.42	SR SIDE	SL PunchLite 220	DSL	DMX5	64	8-Bit Simplie - 8Ch
316	B.50	SR SIDE	SL PunchLite 220	MSL	DMX5	64	8-Bit Simplie - 8Ch
317	B.58	SR SIDE	SL PunchLite 220	MSL	DMX5	64	8-Bit Simplie - 8Ch
318	B.66	SR SIDE	SL PunchLite 220	USL	DMX5	64	8-Bit Simplie - 8Ch
401	B.78	LX3	PLCYC-1 MKII LED	CYC SR	DMX6	62	8-Bit - 9 Ch
402	B.87	LX3	PLCYC-1 MKII LED	CYC SR	DMX6	62	8-Bit - 9 Ch
403	B.96	LX3	PLCYC-1 MKII LED	CYC SR	DMX6	61	8-Bit - 9 Ch
404	B.105	LX3	PLCYC-1 MKII LED	CYC C	DMX6	61	8-Bit - 9 Ch
405	B.114	LX3	PLCYC-1 MKII LED	CYC C	DMX6	59	8-Bit - 9 Ch
406	B.123	LX3	PLCYC-1 MKII LED	CYC C	DMX6	59	8-Bit - 9 Ch
407	B.132	LX3	PLCYC-1 MKII LED	CYC C	DMX6	57	8-Bit - 9 Ch
408	B.114	LX3	PLCYC-1 MKII LED	CYC SL	DMX6	57	8-Bit - 9 Ch
409	B.150	LX3	PLCYC-1 MKII LED	CYC SL	DMX6	56	8-Bit - 9 Ch
410	B.159	LX3	PLCYC-1 MKII LED	CYC SL	DMX6	56	8-Bit - 9 Ch

Lighting Patch Sheet

Channel	Patch	Position	Туре	Focus	Data Circuit	Power Circuit	Mode
501	B.357	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	63	14 Ch
502	B.371	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	63	14 Ch
503	B.385	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	58	14 Ch
504	B.399	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	58	14 Ch
505	B.401	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	55	14 Ch
506	B.427	LX3	Infinity iW-1915 RGBW Wash	US Moving Wash	DMX6	55	14 Ch
801	A.435	SR Boom	Frezno 150 Hex Fresnel	Bottom SR Perch	DMX4	19	SSP - 8 Ch
802	A.443	SR Boom	Frezno 150 Hex Fresnel	Top SR Perch	DMX4	19	SSP - 8 Ch
803	A.451	SL Boom	Frezno 150 Hex Fresnel	Bottom SL Perch	DMX1	5	SSP - 8 Ch
804	A.459	SL Boom	Frezno 150 Hex Fresnel	Top SL Perch	DMX1	5	SSP - 8 Ch
900	A.500	HOUSE LX	GU10 House Spots - Auditorium	House Lights	DALI	0	
901	A.501	HOUSE LX	GU10 House Spots * 4	Upstage	DALI	1	
902	A.502	HOUSE LX	GU10 House Spots * 5	Midstage	DALI	2	
903	A.503	HOUSE LX	GU10 House Spots * 8	Downstage	DALI	3	
905	A.505	HOUSE LX	GU10 House Spots * 10	Floor	DALI	5	
906	A.506	Wall Mounts	WW LED Spot Fanless	Centre stage	DALI	6	
907	A.507	Wall Mounts	WW LED Spot Fanless	Centre stage	DALI	7	
908	A.508	HOUSE LX	Architectural detail on walls	Architectural Lighting	DALI	8	
909	A.509	Wall Mounts	WW LED Spot Fanless	Downstage	DALI	9	
910	A.510	Wall Mounts	WW LED Spot Fanless	Upstage	DALI	10	
911	A.511	Wall Mounts	WW LED Spot Fanless	Upstage	DALI	11	
912	A.512	Wall Mounts	WW LED Spot Fanless	Downstage	DALI	12	
1001/1101	A.92	LX1	Ovation F-265WW	MSC	DMX8	42	1CH - 8Bit Dim + Zoom
1002/1102	A.94	LX1	Ovation F-265WW	MSC	DMX8	42	1CH - 8Bit Dim + Zoom
1003/1103	B.74	LX2	Ovation F-265WW	MSC	DMX7	49	1CH - 8Bit Dim + Zoom
1004/1104	B.76	LX2	Ovation F-265WW	MSC	DMX7	49	1CH - 8Bit Dim + Zoom

Audio & Visual Information

The Piano features a 325-seat concert auditorium fully air conditioned which has been acoustically designed to complement live performance. The following items describe the equipment and system design considerations where appropriate within the auditorium and associated areas of the building.

Auditorium AV

PA system

- · Allen & Heath SQ-6 mixing console
- 1x Allen & Heath DX168 and 2x DX168-W digital stageboxes.
- BSS BLU100 Loudspeaker Management
- 2x Adamson line array hangs (Each hang is 3x Adamson IS118 subs in cardioid, with 7x Adamson IS7 tops fed via 2 bi-amp circuits.

Additional equipment available for hire:

- Dual channel wireless microphone receivers (AKG DMS800) complete with DHT800 hand-held microphone TX unit and DPT800 body pack (lapel) microphone TX unit
- Lectern Microphone Shure MX418 gooseneck Microphone on lectern mount (cabled)
- Cabled microphones
- Foldback monitors

It is intended that these microphones will be routed through the DSP which can be controlled from an iPad so that setup for any event will require minimal technical installation or adjustment.

There are also remote wall controllers available (EC-8BV) for level adjustment of the PA.

Microphone Wayline Termination Panels

These are located at side of stage, stage ceiling, audience seating right hand side, greenroom.

Each contains a generous number of waylines (typically 16) plus 2 X Ethernet connectors.

These facilitate floor level and hung microphone connections as required.

Acoustic Banners

- 14x acoustic banners. 8x around the stage and 6x around the audience seating. When all banners deployed, the reverberation time reduces from 1.6 seconds to 1.1 seconds.
- Recommeded all banners up for music recitals piano, strings, chamber music groups etc.
- Recommeded all banners down for speech, seminars, theatre and amplified music.
- For loud acoustic performances, such as orchestra, large choir, brass bands etc Recommend all banners up on stage, and all down in the audience area. If the performers are feeling overwhelmed by their volume on stage, try all banners on stage down and all up in the audience area.

Audio & Visual Information

Projection

- Panasonic PT-MZ16KL laser projector and Panasonic ET-EMS600 lens (available for hire)
- Screen 300" (7.62 metres) 16:10 Screen Technics ElectriCinema. 4040 x 6465
- Cyclorama on back wall of stage can be especially lit for visual effect
- HDMI input on stage for Laptop/DVD Presentation as appropriate.
- HDMI output on stage for video foldback
- SDI Links from Operators Position to Stage Managers Rack
- · SDI Links from Operators Position to Stage Rear
- SDI Links from Stage Managers Rack to Stage Floor Boxes
- Kramer VIA wireless presenting device to allow seamless connection

Performance Recording System

Camera - BirdDog Eyes P200 1080p Full NDI - mounted above the control room. This camera may be remotely pointed and zoomed, it can be used as a visual aid or a stage wide shot record source.

Extron SMP351 Recorder - for some performances input may be switched to a stage level camera on a requirement basis. For that camera, a termination panel has been provided at an upstand in the 2nd row of seating - cabling will allow that camera to be positioned for the best videography.

Back Of House – Green Room, Dressing Rooms, Passage Ways

· Show feed (audio & visual)

Auditorium Communication System

 2 Channel Clear-Com MS-702 base station and Clear-Com RS-701 cabled belt packs with dual earmuff headset

Wi-Fi and Ethernet Connections – available throughout The Piano building

- · High density, performance critical Wi-Fi
- · 2.4GHz and 5GHz
- 802.11ac and 802.11n
- 802.1x Authentication
- Default connection allows internet only, can have a private VLAN as required at additional cost
- Building measurement, report on number of visitors, visit length and repeat visit rate based on Wi-Fi devices
- Gigabit Ethernet with PoE in all rooms
- Default connection allows internet only, private VLAN as required at additional cost
- Bluetooth 18 x Bluetooth beacons throughout the building

Recording

The Piano offers good facilities for recording. On each side of the stage there are 24 analogue waylines, 6 ethernet ports, and 2 optical MADI ports, all terminating at a patch bay in a backstage green room.

The green room provides an isolated, uncoloured monitoring environment and a 60" screen with a feed