



**WINSPEAR**

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## Contact

Francis Winspear Centre for Music Home of the Edmonton Symphony Orchestra  
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Box Office Direct Phone: 780.428.1414

Stage Management Direct Phone: 780.401.2563

Lighting Department Direct Phone: 780.401.2558

Audio Department Direct Phone: 780.401.2557

Stage Door, Security Direct Phone: 780.401.2565

## Stage Information

The performance chamber is a classical rectangular concert hall design. The stage is semi-circular in shape with a clear-coated maple floor on wooden sleepers. The floor is designed for acoustic performance and is not sprung for dance performance. A choir loft is located 3 meters above and behind the stage. Above the choir loft is the Davis Concert Organ, an instrument containing 6551 pipes.

Access to the stage is by Downstage Left and Downstage Right entrances. There is no proscenium, main curtain, or masking.

Wing space is limited to a crossover hall approximately 3.5 meters wide and 3.8 meters high.

### Stage Dimensions

Downstage Width	18.65 meters (61'-2")
Depth at Centre stage	13.7 meters (44'-11")

### Doorway Dimensions

From front lobbies – smallest door size is 65" wide and 84" high  
 From loading dock – smallest door size is 89" wide and 92" high

## Acoustical Properties

The Francis Winspear Centre for Music was designed with superior acoustical properties for live performance. The ability to introduce adjustable wall treatments surrounding the performance chamber allow for reverberation time control. A two-section canopy above the stage can also be set at various trims to control compression factors on stage. In addition to these acoustical treatments, we also have a dark green velour drape (40' high X 100' wide) that hangs from our curved truss upstage to further assist with acoustic control during amplified performances.

## Available Drawings

Drawings are available in two formats, AutoCAD and PDF.

## Loading Area – expected availability date January 2023

### Loading Dock

Two bays are available, each capable of handling full length semi-trailers. The dock is at stage level approximately 20 meters from the stage area (short, level push). Access to the loading dock is from 102A Avenue, north side of building, via the parking lot.

### Production Parking

In the case where there is only one production truck, it may be able to stay in the loading dock, leaving one bay available for other facility deliveries. Other vehicles will have to be parked at the production's expense in local parking lots.

### Shore Power

- 1 – 200A 120/208V 3 phase panel is available for bus shore power with:
- 3 – 50A 120/208V single phase stove plugs
- 6 – 15A 115V single phase utility receptacles

## Rigging

All rigging points are dead hangs with a capacity of 1000 kilograms each. The engineered points are laid out in a straight, symmetrical line set pattern of six rows. Line sets 0 thru 4 have seven points each, spaced 2.5 meters apart while line set 5 has five points. In each line set, the middle point is aligned with centre stage.

Line set positions as measured from the stage apron:

Downstage	Line set #0+14m (45'-11")	over house
	Line set #1 + 8m (26'-3")	over house
	Line set #2 + 1.9m (6'-3")	over 2 <sup>nd</sup> row of seats
Apron	Line set #3 - 2.6m (8'-6")	over stage
	Line set #4 - 6.5m (21'-4")	over mid stage
Upstage	Line set #5- 10.6m (34'-9")	over upstage

Height from deck:

Front Acoustic Canopy	45'-8 7/16"
Rear Acoustic Canopy	53'-3 3/16"
Ceiling	90'-2 5/8"

### Upstage Truss

In addition to the rigging points, there is an upstage curved truss that matches the shape of the stage. The truss is permanently hung on five one-ton chain motors and used for the hanging of our acoustic drape and fixed moving light fixtures as well as touring production elements.

### Rigging Safety

Fall arrest systems are mandatory for all production trussing used.

## Electrical

### Show Power

The Concert Hall has numerous power panels located throughout the facility equipped with J Series Cam Locks. Ground and Neutral are not reversed.

Exterior Mobile Location	200A 120/208V 3 phase	(expected availability date January 2023)
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Loading Dock – isolated ground	200A 120/208V 3 phase 3 – 50A range plugs 6 – 15A quad boxes	(expected availability date January 2023)
Stage Left – Audio – isolated ground	200A 120/208V 3 phase	
Stage Left – Lighting	400A 120/208V 3 phase used for in house moving lights	
Upstage Centre - Lighting	400A 120/208V 3 phase (Tour use)	
Stage Right – isolated ground	200A 120/208V 3 phase	
Lobby	200A 120/208V 3 phase	
The Studio	100A 120/208V 3 phase with: 6 - 15A duplex receptacles 2 - 20A twist-lock 1 - 30A 125/250V plug 2 - 50A 120/208V single phase range plug	
Projection Booth	100A 120/208V 3 phase	
Follow Spot Booth	100A 120/208V 3 phase	
Ceiling Truss Space – 4 panels of	100A 120/208V 3 phase	

### Lighting Control

All house conventionals are on 1 universe. There are 2 – 5 pin DMX lines from S.L. which address the moving lights on the upstage curved truss. So, 3 - 5 Pin DMX Lines in total for entire house rig. There are 2 extra 5 pin DMX lines from S.R. to Lx booth at FOH for tour usage labeled “C,” “D”. In addition, there are 2 CAT6A network lines that run from S.R. to Booth position or FOH mix position in front of FOH booth for tour use.

The main in-house control position is in a booth at the rear of the hall. Lighting control is provided by an AVOLITES ARENA console with a Tiger touch fader wing. An Apple iPad mini is used for a focus remote.

The dimming system is comprised of 3 Strand CD-80SV racks with 288 – 2400-watt, 800 microsecond dimmers. House lights are operated from a separate control console and dimmers via Strand Vision Net.

## Connectors

Disconnects: J series Cam Locks, ground and neutral are not reversed  
 Fixtures: New Style Twist Lock – 20A 120 volt  
 Circuits: 6 X 19 pin Socapex connectors

## Followspots

2 – Strong Super Trouper 2000 W Xenon long throw with Telrad Reflex Sights  
 Located in our Spot Booth.

## Permanent Lighting Positions

The Concert Hall was designed primarily for symphony orchestra concerts and has a standard house hang that provides even illumination across the stage. In addition to the concert lighting, we can focus several instruments to accommodate other performances.

## Fixture Inventory

### Pre-focused O/W Top Concert Lighting

146	ETC Source 4 – 26°	575W
4	Strand 20°	575W
20	ETC Source 4 – 26°	750W Choir Loft focus
62	ETC Source 4 – 36°	750W
12	Colorado	Tour 2 “LED Pars”

### Focusable Inventory

14	ETC Source 4 - 19° w/ iris	750W	on canopy
20	ETC Source 4 - 10°	750W	FOH wash / in pairs
6	ETC Source 4 - 5° w/ iris	575W	FOH specials
60	ETC Source 4 Pars Medium	750W	Upstage 3 color wash in pairs
6	Martin “TWI” wash fixtures	1200W	mounted on upstage curved truss
6	Martin “350 Entour LED” profile fixtures		mounted on upstage curved truss
4	HighEnd Studio Colors 575		mounted on upstage curved truss

### Additional Float Inventory

12	Strand 30°	575W
12	PAR 56 Stubbys	500W

## Hazer

1	Unique Look Hazer
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## Sound System and Communications

### Show Audio Power

Loading Dock	200A	120/208	3 Phase - isolated ground
Stage Left	200A	120/208	3 Phase - isolated ground
Stage Right	200A	120/208	3 Phase - isolated ground
The Studio	200A	120/208	3 Phase
Lobby	200a	120/208	3 Phase

### House Audio Equipment

**Main speaker system audio is managed via a Meyer Sound Galileo processor.**

Main L/R System:	32	Meyer Sound M'elodie curvilinear loudspeakers (16/ side)
Front Fill:	5	Meyer Sound M1D loudspeakers set on stage lip
	1	Meyer Sound CQ2 loudspeaker (per side) fed L/R
Subs:	1	Meyer Sound 700-HP subwoofer loudspeaker (per side)
Rear Balcony:	4	Meyer Sound UPJ-1P full range loudspeakers
Choir Loft:	4	EAW CH461 passive mid-hi enclosures (separate send)

### Consoles & Stage Racks

<b>Solid State Logic LIVE L500+</b>	FOH Console – House Audio Booth
<b>Solid Stage Logic LIVE 300</b>	Monitor Console – Stage Left Monitor Position
<b>SSL ML32.32 &amp; ML 32.0</b>	96 Analog Input 64 Analog Output FOH Racks
<b>SSL ML32.32 &amp; ML32.0</b>	64 Analog Input, 32 Analog Output Monitor Racks
<b>SSL Console Link</b>	32/32 Channel MAD1 Link Between Consoles

**Note: SSL FOH and Monitor consoles Do Not Gain Share as standard configuration but can be combined via SSL Blacklight II. All stage racks are equipped with passive analog splits**

### Stage Monitor System

Floor Monitors:	13 L'Acoustics X12 12" Coaxial Multi-Purpose Loudspeakers 90° x 60°
Side Fill:	2 L'Acoustics A10 WIDE Medium Throw Line Source 30° x 70°, 90° or 110° Asymmetrical Loudspeakers
	2 L'Acoustics KS21 21" Compact Subwoofer Loudspeakers

## Additional Loudspeakers

- 4 L'Acoustics 5XT 5" 100° Ultra-Compact Coaxial Loudspeakers
- 2 Anchor Audio AN-130 Hotspot
- 1 Nexo PS10 System with 2 PS10 Loudspeakers, 1 LS500 Subwoofer and PS10 Amplifier

L'Acoustics loudspeakers powered by 3 LA12X high power 4x4 amplified controllers and 1 portable LA4X, 4X4 amplified controller - 1 box per channel

## Tour Snake Runs & Patching

Clients supplying their own Consoles, Snakes: Snake run is approximately 160 feet from Stage Left or Stage Right doors to the back wall FOH Mix Position through the house on Orchestra Level. Guest patching into the house PA System is done from FOH Mix Position with a maximum of Six (6) Analog Line Level inputs ie: Left, Right, Front Fill, Subs, and patched directly to our Galileo Array Processors. Any other control and/or distribution is done via the matrix in Galileo. Analog Line Level input feed for program/hearing assist.

## Intercom System / Paging

4-channel Clear-Com wired system is provided throughout the performance and support areas. One channel provides program audio.

DME DX200 4 station wireless belt packs and headsets

Paging is available to Back of House, Dressing rooms and Corridors.

## Media Feed / Hearing Impaired

- 1 – RCI-BM24 24 channel mic level output, passive Media distro
- 1 – FM transmitter w/ 12 receivers with headphones/ ear loops

## Microphones & Direct Boxes

Shure	6 - Beta 58A
	6 - Beta 57
	1 - Beta 52
	1 - Beta 91
	6 - SM58
	2 - SM58S
	6 - SM57
	4 - KSM 137SL
	2 – KSM 32
	1 – VP88
AKG	8 - 414XLS
	20 - 300E/CK91
	8 – 535
Audio Technica	1 - ATM 25
	13 - ATM Pro 35X clip on condensers

## Microphones & Direct Boxes (con't)

Beyer	2 – M88
Crown	2 - PCC160 1 – PZM
DPA	7 - 4099 Loud SPL clip on condenser instrument mics – various clips available 4 - 4099 Extreme SPL clip on condenser instrument mics – various clips available 30 – MHS 6005 microphone holder for strings
Earthworks	1 - PM40 Stereo piano mic 2 - FMR600HD lectern mics
Sennheiser	4 - 421 3 – E604
Neumann	3 - KM100 w/ AK40 cardioid capsules 5 - KM100 w/ AK30 omni capsules

## Direct Boxes

Countryman	8 - Type 85FET Active
Radial	8 – JDI Passive 1 - JDI Stereo Passive 3 – AV1 Passive 1 – JPC Active
Rapco	1 – DB100 Passive

## Wireless Microphone System

Shure	3 - UR4D Wireless Receivers 6 – UR2 Beta 87A Handheld Transmitters 6 – UR1 Belt Pack Transmitters
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Various Sennheiser MKE2 (black) and DPA 4061 (black) lavalier microphones, Shure WA302 guitar adaptors, DPA D:Fine 4188 (beige) dual ear cardioid earset microphones

## FOH Recording / Playback

- 1 – Tascam SS-CDR200 CD/USB/SD recorder/player
- 2 – Tascam CD-01U CD player
- 2 – Radial AV2 iPod/Computer direct boxes

## Split & Snakes

- 1 - 64 Channel Cable Factory 3 Way Analog Split with 2 Isolated with Lundahl Transformers
- No Copper to FOH, 30foot Monitor Split Cables
- 1 - 24 channel Rapco 100ft sub snake – tails at split
- 2 - 16 channel Cable Factory 100ft sub snakes – tails at split
- 1 - 12 channel 75ft Radial front line sub snake
- Various other sub snakes available



## Microphone Stands

Atlas	12 - MS-12C round base
	8 - DMS-10E round base w/ K&M 211/1 tele boom
	2 - DMS-7E round base w/ K&M 211/1 tele boom
	6 - MS-20 HD round base
	4 - MS-4 Desktop stands
K&M	10 - 259/1 short tele boom
	20 - 210/2 tall tele boom
	4 – 21021 tall boom
	4 - 260 round base

## FOH Recording / Playback Equipment

- 1 Tascam SS-CDR200 CD/USB/SD/CF recorder/player
- 2 Tascam CD-O1U players
- 2 Radial AV2 iPod/Computer Direct boxes

## Portable Lobby Audio System

- 1 Allen & Heath QU-PAC mixer
- 1 Tascam CD-O1U CD player
- 1 Shure ULXD4Q Receiver
- 4 Shure ULXD2 Beta 87A Wireless transmitters
- 2 Shure ULXD1 belt pack transmitters

The Main Lobby and the Upper Circle are covered by Renkus Heinz Iconyx speakers on each level plus ceiling speakers. Only one area can be accessed at a time.

## Production Broadcast

The Concert Hall is wired for Broadcast use. An isolated Broadcast suite is located Stage Left with full audio patching capabilities. There are 64 audio tie lines between the Broadcast suite and the Loading Dock for mobile truck patching. There is also full access to the 64-channel passive Lundahl isolated split as well as 18 dry tie lines that are patchable from the performance area directly to the suite. Intercom and video (BNC) patching provided. 96 split channels are also available directly from SSL stage boxes.

## Lecterns

- 2 Wooden lecterns are available with the “W” Winspear logo on the face.

## Staging Equipment

### Pianos / Keyboards

2	9' Steinway Model D Concert Grand	1	7' Bosendorfer
1	6' Yamaha C3 baby grand	1	Yamaha CP4 Stage
2	Yamaha Uprights	1	Celeste
1	Portativ Continuo organ	1	Hapsichord

### Amplifiers

1	Traynor Block 12
1	Fishman Loudbox Mini
1	Fender Blues Junior III

### Davis Concert Organ

Built by Orgues Letourneau Limitee, the Davis Concert Organ, Opus 50, Canada's largest concert organ is a four manual with 6551 pipes, 96 stops and 122 ranks.

### Risers

Wenger Versalite riser system including:

25	4' X 8' platforms
6	4' X 4' platforms
4	Sets of angled filler platforms, 3 levels deep – used to approximate curves
	Risers can be set to heights of 8", 16", 24" and 32"

### Chairs

60	Tecno tempo orchestra chairs
90	Stacking orchestra chairs
6	Black bar stools with hard top

### Music Stands

120	Double shelf Manhasset stands
14	Tall double shelf Manhasset stands
10	Single shelves
90	music stand lights

### Dance Floor

4 rolls Marley Dance floor, 60' wide by 4', front roll matches the contour of the stage

### Green Room / Lounge

Located adjacent to the stage door and dressing room area, "Barney's Lounge" is equipped with tables and chairs and a stage monitor. Suitable for performer & crew catering needs.

## Dressing Rooms

- Conductors Suite
- Conductors Reception
- Solo 1 / with piano
- Solo 2
- Solo 3
- Solo 4 (currently unavailable)
- Chorus 1A
- Chorus 1B
- Chorus 2A
- Chorus 2B

Wireless Internet connection is available throughout the backstage areas.  
All dressing rooms are equipped with mirrors, showers and washroom facilities.  
Garment steamer, irons and ironing boards available for use.

## Labour Supply

The Winspear Centre has a house staff comprising Audio, Lighting and Stage departments. Additional production staff is supplied by IATSE Local 210 through collective agreement with the Winspear Centre. Any crewing questions should be directed to the Winspear Centre Lead Technician during show advance.

## Equipment Rentals

Supply of all production equipment rental needs is available locally. The Winspear Centre can arrange for delivery of requested equipment or provide a listing of suppliers able to meet your requests. For information, contact the Technical Director.

## Fire & Smoke

The Francis Winspear Centre for Music is a non-smoking facility subject to City bylaw enforcement. Noncompliance with the no smoking policy can result in additional charges being assessed to the client. Pyrotechnics are not permitted to be used in the Winspear Centre. Also, all open flame, including candles, is strictly forbidden.

## Truck Route Directions

Francis Winspear Centre  
9720 – 102 Avenue  
Edmonton, Alberta

### From: Calgary and points south

Highway #2 North becomes Gateway Boulevard (103 Street) inside city limits

To: Whitemud Drive exit      right turn, East  
To: 99 Street                      next left turn, North  
To: Grierson Hill                right turn, East - North side of river valley  
To: 95 Street                      left turn, North  
To: 102A Avenue                left turn, West  
To: 97 Street & 102A Avenue  
Enter on North side of building to line up with dock  
Loading dock on North side

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### From:            Points East or West

Yellowhead Trail (Highway 16)

To: 82 Street                      turn South  
To: Jasper Avenue                82 Street becomes Jasper Ave. at the River Valley  
To: 97 Street                      turn right, North  
To: 102A Avenue                turn left, West  
Enter on North side of building to line up with dock  
Loading dock on North side