



Vancouver Playhouse: Technical specifications

Address:

Administration – Vancouver Civic Theatres, City of Vancouver
Address: 649 Cambie Street
Vancouver, B.C.
V6B 2P1

Switchboard - (604) 665.3050
Fax - (604) 665.3001

Stage Door/Loading Dock address: 601 Cambie Street

Audience Entrance: Corner of Hamilton Street & Dunsmuir Street (on Hamilton)

Staff Contacts:

Dave Winstanley – Sr. Manager, Production	604-665-3024
Miles Muir – Technical Director	604-665-3043
Heather Turnbull – Head Carpenter	604-665-3041
General Booking Enquiries -	604-665-3040

Seating Capacity:

Orchestra	487 + 5 Wheel chair
Balcony	181
Totals	668 + 5 Wheel chair

Loading access:

Loading bay: - 1 bay at right angle for 40' (12.19m) tractor trailers (if tractor is dropped)

Loading Doors: - 20' wide x 13' high (6.01m x 3.96m)

Loading Dock: - 3.5' (1.07m) high above street level

Dock Access to Stage: - Through two large 7' wide x 12' high (1.83m x 3.66m) doors, opening in center of upstage wall from loading dock on Cambie Street.

Parking Restrictions: - No overnight parking allowed. All trucks must maintain at least 6' clearance from fire exit doors.

Street parking is controlled by the City of Vancouver. For permit information, please visit the following links:

Special Event [Application](#) - required for Film and Special Event office to review/process any work requests for on street production parking.

Web form for [inquiries](#). Note: They deal with activity on COV streets and sidewalks only.

More [information](#) about hosting events in Vancouver on public property -ie: streets and sidewalks.

Stage Floor:

- Edge grain fir with black painted Masonite cover
- Six removable trap sections exist downstage

Stage Dimensions:

- Proscenium Opening (Fixed): 47'6" w x 18'7" h (14.78m x 5.67m)
- Curtain Line to Rear Wall: 32'6" (11.13m)
- Curtain Line to Orchestra Pit Line: 1'6" (0.457m)
- Curtain Line to Front of Apron: 11'6" (3.51m) with orchestra pit up
- Centre Stage to Stage Left Wall: 35'8" (9.60m)
- Centre Stage to Stage Right Wall: 38' (11.58m)
- Free Height Stage Right Wing Space: 45' (13.72m)
- Free Height Stage Left Wing Space: 45' (13.72m)
- Height from Stage Floor to Underside Grid: 45' (13.72m)
- Distance from Booth to Proscenium 70' (21.33m)

Fly system:

- Max. Flying Height (except first electric): 42' 6" (12.95m)
- 43 single purchase line sets (T-bars are on 6" centers)
- Pipe Length:
 - Line set 1 thru 37: 56' (17.07m), 1 7/8" (4.76cm) O.D.
 - Line set 38 thru 41: 50' (15.25m), 1 7/8" (4.76cm) O.D
 - Line set 42 & 43 are curved pipes
- Free Pipes: - 20 (Another 21 can be cleared - **note** must be restored at end of call. Certain pipes such as electrics and travelers take extended time, and/or additional crew to alter and restore. First electric and projection screen are permanent and do not move.)
- Arbor Capacity of Each Pipe: - 700 lbs. (317.5kg)
- Lock Rail: - Floor level stage right
- Ladders: Four ladders left and right trimmed at 9' height (they track from downstage 5'6" to upstage 26'). They fly out to maximum 26' to bottom pipe.
- German masking both left and right stage to complete 'black box' to height of 23'.

Stage Draperies:

- Main Curtain: Black velour Mounted within proscenium arch - Operates as traveler only. 100% box pleats
- Velour Stage Masking:
 - 3 - Pairs Black Legs; 22' high x 12' wide (6.71m x 3.66m) non-pleated with bottom chain pocket, equipped with removable return arms).
 - 1 - Pair Black Legs; 22' high x 8' wide (6.71m x 2.44m) non-pleated - house trim is 20' off center
 - 5 - Black Borders; 8' deep x 56' wide (2.44m x 17.07m) non-pleated with bottom pipe pocket.
 - 2 - Black Backdrops; 24' high x 32' wide (7.32m x 9.75m) non-pleated with bottom pipe pocket.
- Scrim: 1 – Black sharkstooth, 60' wide x 24' high (18.29m x 7.32m)
- Black Travelers: 2 – full stage, two-piece mounted on tracks; 20' high x 56' wide (6.1m x 17.07m).
- Cyclorama: 1 - Off-white PVC front/rear projection with bottom pipe pocket 24' high x 56' wide (18.29m x 7.32m).

Orchestra pit / Semi-circular thrust stage:

- Radius: 17' 7" (5.36m)
- Width (down stage to upstage): 10' .75" (3.07m)
- Length (down stage to upstage): 31' 9" (9.68m)
- Depth (adjustable hydraulically): 12' (3.66m) maximum below stage floor

Line set Schedule:

NOTES:			
Number of bricks indicated is bricks above pipe weight. Pipe weight is indicated by top brick painted yellow.			
Full Bricks weigh 28 lbs, half bricks weigh 14 lbs			
Max. Flying Height (except first electric): - 42' 6" (12.95m)			
Lineset 1 thru 37 - Pipe Length: - 56' (17.07m); 17/8" (4.76cm) O.D			
Lineset 38 thru 41 - Pipe Length: - 50' (17.07m); 17/8" (4.76cm) O.D			
Lineset 42 & 43 - Curved pipes			
Arbour Capacity of Each Pipe: - 700 lbs (317.5kg) or 25 bricks			
Black Scrim Available - 22'H x 48'W - Weight = 2 Bricks			
Small Projection Screen - Viewable area 8' x 11' - Weight = 4.5 bricks with bottom masking (Masking does not fly)			

Line #	Dis. Fr/pit	Description	# of Bricks
0	-2'6"	Pit pipe - DOWNSTAGE from DSC pit line. Trim is 21'6"	
	0' 0"	Pit Line	
----	1'	MAIN CURTAIN: On fixed track under proscenium - does not fly	
----	2' 9" / 3' 9"	FIRE CURTAIN - DO NOT OBSTRUCT	
1	4' 2"	Border / projector hanging position -	Border = 4 Projector = 4.5
2	5'	First electric - does not move (Trim @ 22')	
3	6' 2"		
4	6' 8"		
5	7' 2"	Border (Trim @ 19')	3
6	7' 8"	Legs - with return arms - 40' opening	4
7	8' 2"	Projector Screen - (32'w X 20'h) does not move, but can trip up. Adjustable legs	12.5
8	8' 8"		
9	9' 6"	Second Electric - (Trim @ 22')	
10	10' 2"		
11	10' 8"	Black Traveler "Oleo" - does not move easily - Hung with fullness - out trim is 22'	25
12	11' 2"		
13	11' 8"		
14	12' 2"	Third Electric - Par Pipe - (Trim at 23')	13
15	12' 8"		
16	13' 2"		
17	13' 8"	Border (Trim @ 19')	3
18	14' 2"	Legs - with return arms - 40' opening	4
19	14' 8"		
20	15' 6"	Fourth Electric (Trim @ 22')	
21	16' 2"		
22	16' 8"	Midstage Traveler - does not move easily - Hung with fullness - out trim is 22'	17
23	17' 2"		
24	17' 8"		
25	18' 6"	Fifth Electric - Par Pipe - (Trim @ 23')	13
26	19' 2"		
27	19' 8"	Border	3
28	20' 2"	Legs - with return arms - 40' opening	4
29	20' 8"		
30	21' 2"		
31	22'		

Line #	Dis. Fr/pit	Description	# of Weights
32	22' 9"	Sixth Electric (Trim @ 22')	
33	23' 3"		
34	24'		
35	24' 9"		
36	25' 3"	Border - with bottom pipe	4
37	25' 9"	Legs - 40' opening	3
38	26' 3"	Short Pipe - 51' long	
39	27'	Cyclorama (Max out trim is 18' 1") Short Pipe - 51' long	3
40	28' 3"	Short Pipe - 51' long	
41	28' 9"	Short Pipe - 51' long	
42	32'	Cyc Lights - Curved Pipe	17
43	32' 8"	Black Backdrop - Curved Pipe - (Max out trim 20' 5")	7.5

Projection equipment:

Film Screen: Viewable area is 18 x 32'. Adjustable legs on either side of screen to adapt to size of image.

Portable Screen: AV Stumpfl Monoblox 11' x 20' fast fold RP screen

Christie 10K HD Projector: Used for FOH projection only
Model HD-190k –M – DCP –M1.1

Panasonic PTRZ 12K 3 chip DLP Laser Projector

Epson Powerlite 1940W: Use for rear projection only.
Colour Brightness - Colour Light Output:4200 lumens¹
White Brightness - White Light Output:4200 lumens¹
Aspect Ratio: Native 16:10
Native Resolution:1280 x 800 (WXGA)

SUPPLIMENTARY EQUIPMENT: See note below

Risers: Complement consists of 16 - 4" x 8" (1.22m x 2.44m) sections. Sections available in 8" (20.32cm), 16" (40.64cm) and 24" (60.96cm) heights. Additional smaller sections also available.

Speaker's Lectern: 2 wooden lecterns - 3' high x 2' wide; can be equipped with reading lamp and microphone mount.

1 Plexi lectern - From top to bottom it is 4' tall, from top to the top of the base of the lectern is 44", Width of the lectern is 27". Depth of the lectern is 20"

1 Black lectern – 45.75" tall x 27.5" wide x 21.5" long

Conductor's Podium: 1 @ 32" X 48" X 16"

Music Stands: Manhasset Model; available with lights

Chairs: Wenger, black musician chairs with padded seats and backs. Also, burgundy chairs with padded seats and backs.

NOTE: THE ABOVE EQUIPMENT IS SHARED BETWEEN TWO THEATRES AND IS SUBJECT TO PRIOR RESERVATION

Dance Floor: Harlequin Reversible Pro – 41' X 6' 8". Six rolls of B&W and Six rolls of B&G

Piano: 1 - Steinway 9' (2.74m) Grand Model D. **Tuning cost payable by lessee.**
1 - Yamaha Model WX15 (48" tall)

Personnel Lift: 1 - "Handy Herman" with 24' (max. height) working platform.

Temporary Power: 400A 120/208 Cam Lock
30A 3 Ø 208v receptacle
3 pin 208V receptacle (projection booth)

LIGHTING

Lighting Console:

ETC ION dual consoles w/ sub wing, full tracking backup, 388 dimmer lighting control system in Front of house booth. (382 - 2.4k dimmers, 6 - 5k dimmers in a dimmer per circuit system), 3 universes of DMX control

All circuits are patchable, in any sequence, to all dimmers.

DMX-512 protocol.

NOTE: The Playhouse has several versions of the house lighting plot which may vary throughout the season. Please contact the technical department to obtain the most current version

Fixture Inventory (includes fixtures in house hang and spares)

Source four 10°	3 total	HPL 750
Source four 14°	4 total	HPL 750
Source four 19°	29 total	HPL 750
Source four 26°	55 total	HPL 750
Source four 36°	51 total	HPL 750
Source four 50°	22 total	HPL 750

Spare barrels (included in totals): 36° - 21 total (there are 164 lights and 185 barrels). All numbers include lights hung as per instrument schedule.

Lustr2 Source four LED @ 26 degree	8
Lustr2 Source four LED @ 36 degree	12

Par

Par 64 Rack o' six	12	FFS	1k	CP95 or EXG (wide)
Par 64	25	FFR	1k	CP62 (med)

The entire par contingent can be medium or wide as necessary.

Fresnel

Castor 270 - 12.5"	20		2k	Only 3 Barn Doors!
Strand 3380 - 6"	48	BTR	1k	w. Barn Doors
Rank Mizar MK.2 - 3"	10	FEV	.3k	No Barn doors

Cyc Cell

Iris Ianaro Sky Cyc:	two cell units	12	FFT	1k
Ianaro Pallas Ground row:	four cell units	8	FHM	1k

Other Conventional:

Mini strips:	(3 cir/30 bulb)	4	EYC	75w (med)
MR-16 spots	30		75w	(Various)

Moving:

VL 1000 ts	6		1k
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Follow spot:

2 X Lycian 1290 – XLT 2kw Xenon spots

Other:

Data flash	2		
Atomic 3k strobe	1		110 volt

Accessories:

Rosco i-Que mirrors	6
4 pin power supply	6
DMX opto splitter	2
Gobo rotators	6
Dmx iris	6
Drop in iris	8
Barn door – 12.5”	3
Barn door – 6”	48

Floor Booms: 12 - 12' high or 20' high with arms. Availability subject to prior reservation.

- House Lighting Circuits are L5-20 (120v 20amp)
- 5k Dimmers use “joy” 3 pin connector

NOTE:

A LARGE STOCK OF USED ROSCOLUX COLOUR FILTERS IN CARDBOARD FRAMES IS MAINTAINED AND AVAILABLE FOR USE; HOWEVER, THE THEATRE DOES NOT ACCEPT RESPONSIBILITY TO MEET ANY PARTICULAR DEMANDS

AUDIO

Sound console: Avid S3L 48 – in 24 - out

Central Loudspeakers:

- 2 Meyer MSL 2A. (Flown)
- 2 - EAW FR129z Trapezoid Speakers (Flown) Balcony Center Fill

L / R Loudspeakers:

- 4 Meyer MSL 2A. (Flown) 2 per side

Subs:

- 4 EAW - SB150zR (Ground) 2 per side

Processor: Allen & Heath IDR 8X8

Surround Sound Speakers:

- 6 - JB11 model H3-40 (2 below balcony; 4 above)
- 4 - EV 8D (Below balcony)

Processor: Allen & Heath IDR 10X10

Portable Speakers:

- 4 – EAW Sm 129z1 Wedge Speakers
- 6 - EAW FR129z Trapezoid Speakers
- 2 - EAW FR129z Flown (Side Fills, One per side)

Playback Sources:

- Q-Lab - Stereo
- 2X Tascam O1U CD Players
- Avid SL3 On Board USB (No auto pause)

Recording System:

- Tascam SS-CDR200 CD/USB/SB Burner
- Toshiba DR430 DVD Burner
- Audacity HD
- Avid SL3 On Board USB
- Lines available at back of Orchestra Center

Processor: Allen & Heath IDR 8X8

Equalizers, Limiters, Delays, Reverbs: Avid S3L On board

Hearing Assist System:

- Sennheiser Infrared Stereo-System with 30 receivers available

Intercom:

- Two (2) Channel Clear-com to all operating stations with master station at stage manager's booth. Portable stations are available, plus 4 X 2 Channel wireless packs

Paging:

- Complete program interrupt paging system to, dressing rooms, rehearsal rooms, wardrobe room, hallways etc. from stage manager station down stage right.

Program Sound:

- Program system to lobbies, dressing rooms, rehearsal rooms, wardrobe room, hallways etc. from sound booth.

Processor: Allen & Heath IDR 8X8

Microphone Lines:

- **Analogue**
 - 19 - Upstage left wall
 - 7 - Downstage left
 - 4 - Downstage right
- **Digital**
 - 16- Downstage left
 - 32 – As required

Speaker Lines:

- 6 - FOH ceiling catwalk left
- 6 - FOH ceiling catwalk right
- 9 - upstage left wall
- 2 - upstage right wall
- 2 –Downstage Left
- 2 - Downstage Right

Microphones:

- 1 - AKG D112
- 4 - AT Pro 37R
- 4 - Shure SM58
- 4 - Shure SM57
- 2 - AKG 451 with shotgun adapters
- 4 - Channels of Shure U4RD UHF wireless – cw 4 - Shure Beta 87 Handheld and 4 - Countryman B6 Lavalier
- 2 - Channels of Shure ULXP4 UHF wireless – cw 2 - Shure 58 handheld
- 5 - Crown PZM Plate

Miscellaneous: Assortment of stands, cables, splitter boxes, 2 pre-mixers, direct boxes, adapters, etc.

Availability of above subject to prior reservation.

DRESSING ROOMS: Located one floor below stage

- 4 - Star dressing rooms
- 1 - Female chorus dressing room (21 person capacity)
- 1 - Male chorus dressing room (21 person capacity)

All equipped with mirrors, make-up lights, showers, toilets, sinks and costume racks.

RECITAL ROOM

- Located below auditorium
- Ready access to backstage dressing rooms and lobby.
- Size: 40' x 42' (12.2m x 12.8m)
- Has small stage 8' deep x 13' wide
- Functions as rehearsal room with upright piano included
- Availability subject to prior reservation

WARDROBE ROOM (Use of wardrobe facilities requires house staff)

- Irons, ironing board, steamer, washer and dryer. Located one floor below stage.

GREEN ROOM

- Adjoins Recital room
- Ready access to both backstage dressing rooms and lobby
- Size: 30' x 21' (9.15m x 6.4m)
- Has small kitchenette and is equipped with coffee tables and lounge chairs
- Availability subject to prior reservation.

Stage Crew information:

- All rentals include the services of a Head Carpenter (Stage supervisor) and House Electrician (console operator) for up to 8, straight-time hours each. Overtime hours will be billed to the licensee.
- Additional stage crew is supplied through agreement with **IATSE Local 118**. The total number of stage crew needed to staff an event will be determined by the Theatre's Technical Department, in consultation with the Licensee.
- At all times, stage activity must be supervised by the applicable house technicians. Productions requiring access to the wardrobe facilities will require a house wardrobe person.
- Meal breaks must be given every 4 hours, except that once in a day, stage crew may work a 5 hour block before a meal break is required. If stage crew are required to work beyond these times without a meal break, they will be paid a premium rate until such time as they are able to take their break.
- Meal breaks can be either a 1-hour unpaid break or a ½ hour paid break. A 15 minute coffee break is usually taken at the mid-way point of a 4 or 5 hour block.
- The minimum crew call is 4 hours. A break of greater than 1.5 hours between calls will constitute a new "minimum call"

USE OF HAZARDOUS MATERIALS IN VANCOUVER CIVIC THEATRES

Government of Canada legislation requires that the use of "controlled" products in our theatres shall comply with the rules under WHMIS (Workplace Hazardous Materials Information System). Controlled products include:

- (1) Compressed Gas
- (2) Flammable and Combustible Material
- (3) Oxidizing Material
- (4) Poisonous and Infectious Material
- (5) Corrosive Material
- (6) Dangerously Reactive Material

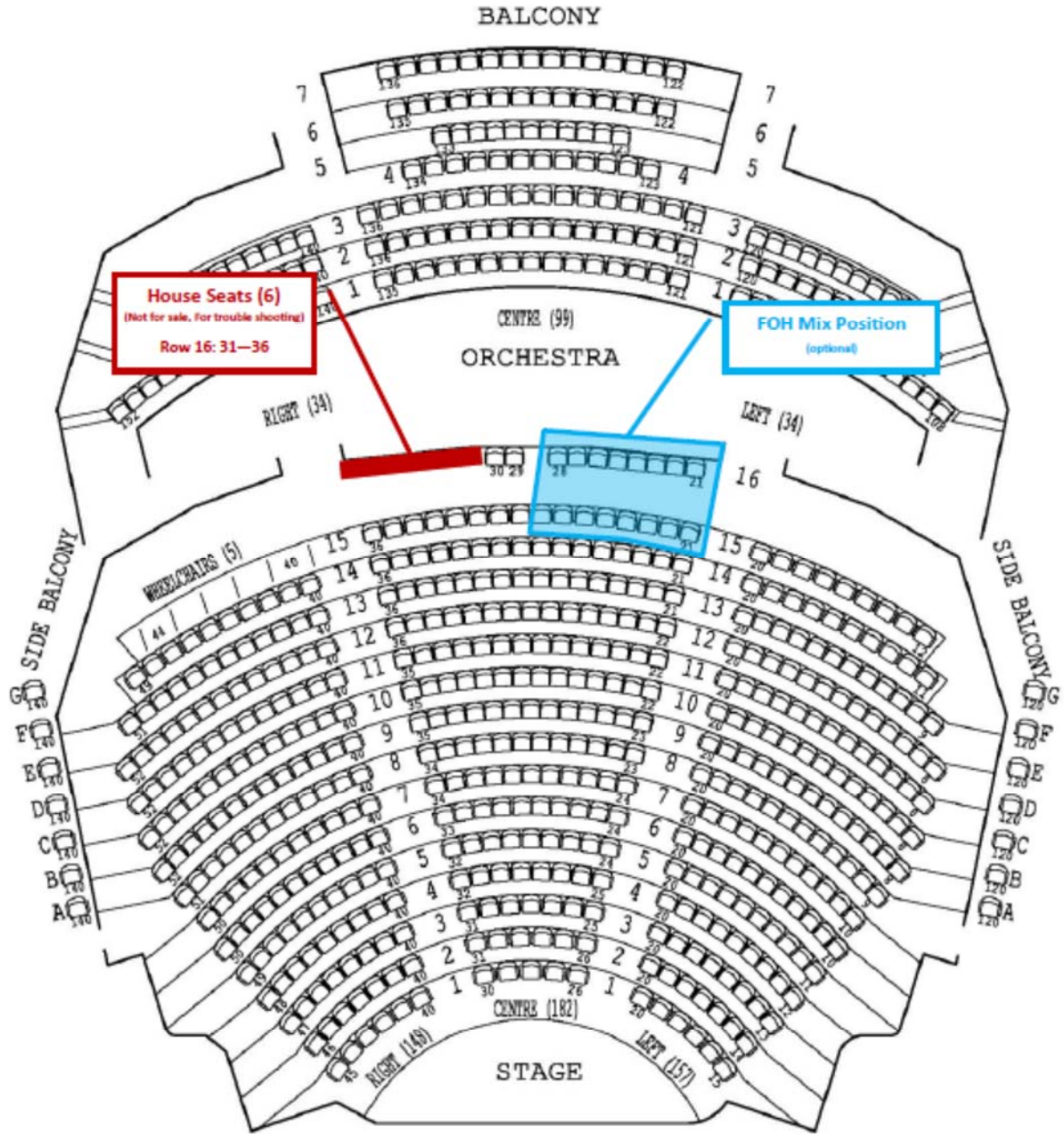
WHMIS regulations require that:

- (a) Anyone using controlled products in the workplace must be informed as to its safe storage, handling, use, and disposal.
- (b) All containers of controlled products must have warning labels attached that meet regulation requirements.
- (c) A MSDS (Material Safety Data Sheet) for any controlled product must be available and be maintained in the immediate work area.

Some substances such as explosives, radioactive materials, and tobacco are covered under separate regulations. Smoking in our theatres, for example, is restricted under our Civic Bylaws to designated areas only within our building perimeter.

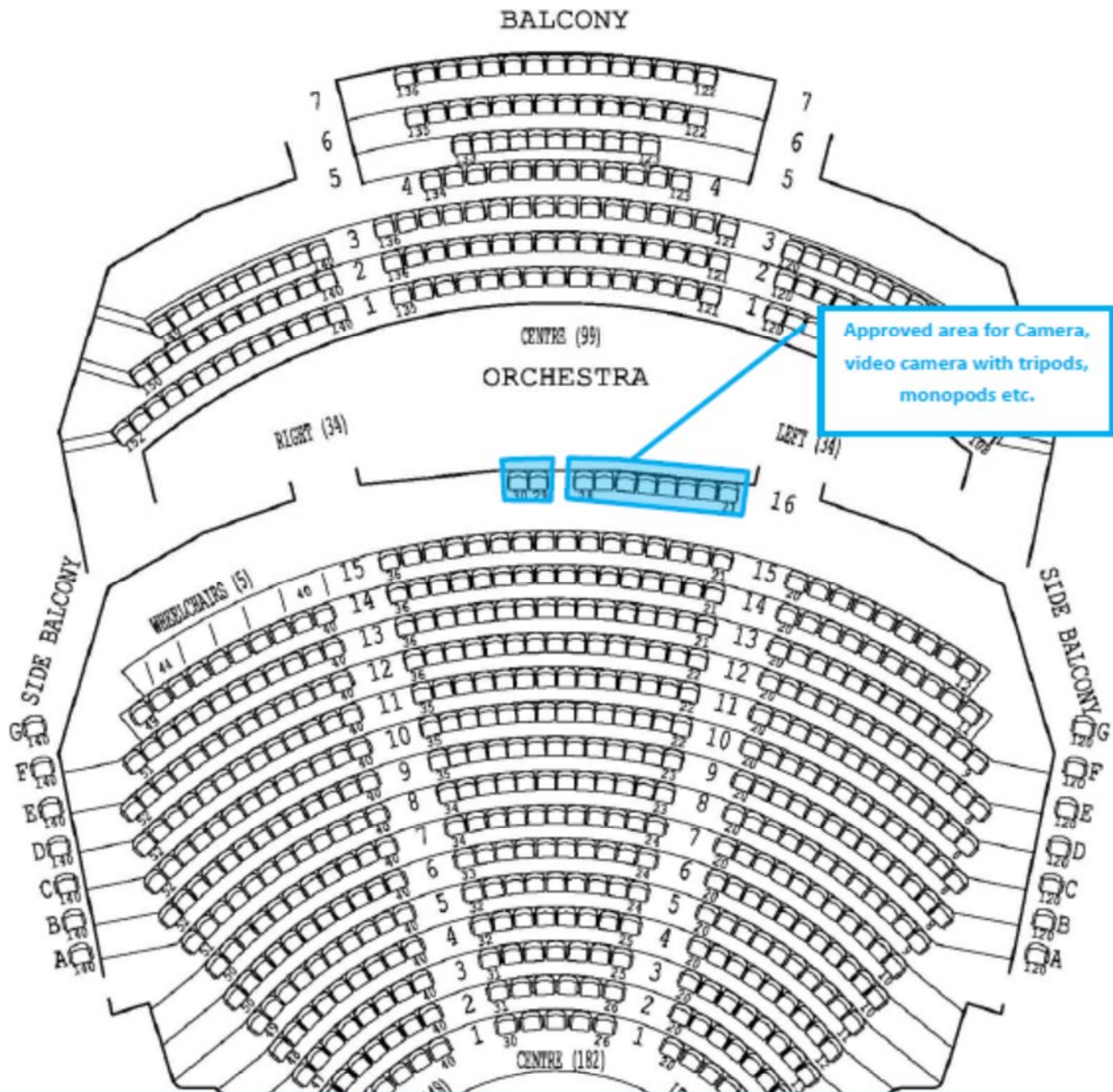
OCCUPATIONAL HEALTH & SAFETY REGULATIONS: ASBESTOS IN THE WORKPLACE

Government of British Columbia legislation and regulations prohibit the use of asbestos materials in the workplace where such use would have the potential risk that asbestos particles could be inhaled into workers' lungs. The authority for the establishment of the Industrial Health & Safety Regulations is found in Section 71(1) of the Workers' Compensation Act. Further, Section 75(2) of the Act states: "Every person who contravenes or fails to comply with a regulation or order under Section 71 commits an offense and is liable on conviction to a fine not exceeding \$10,000, or to imprisonment not exceeding 3 months, or to both." [This amount has changed with the addition of C.P.I. increases over the years and now is roughly \$32,000 (January 1992).] These regulations, in particular, PROHIBIT THE USE OF ASBESTOS CLOTH AND ASBESTOS COVERED ELECTRICAL CORDS INCLUDING LAMP EXTENSIONS ON STAGE LIGHTING EQUIPMENT. In order to fully comply with these regulations, such hazardous materials SHALL NOT, under any circumstances, be admitted onto the Queen Elizabeth Theatre, Orpheum, or Vancouver Playhouse premises.



FOH Mix Position notes:

- Row 15 seats 21-28 and Row 16 seats 21-18



Camera, video camera with tripods policy:

- Event organizers are responsible to set aside spots for tripods/monopods etc. set-up
- Tripods/monopods/selfie sticks are NOT allowed in the aisle and seating area for safety purposes except for approved area
- Photographing/videotaping from non-approved area must be handheld
- Please discuss with your Booking & Event Coordinator if you need a special arrangement

Internet Information:

COV-Business	WiFi
IP addressing	
Gateway	
DNS	
DHCP	
Upload	80 Mbps
Download	80 Mbps
Notes: Used for Licensee Access	

Van-WiFi	WiFi
IP addressing	
Gateway	
DNS	
DHCP	
Upload	10 Mbps
Download	10 Mbps
Notes: Used for Licensee Access	

Show Network	LAN
IP addressing	10.128.0.0 /9
Gateway	10.128.0.1
DNS	10.128.0.1
DHCP	Addressing Only
Bandwidth	100 Mbps
Notes: These ports give you a connection to our Public Internet connection. This network is NAT'd through a Firewall to Public IP addresses. The Firewall does allow all traffic outbound (no restrictions) The Public Internet connection is a 100 Meg fibre connection shared with the CoV-Public WiFi connections.	

Network Ports:

Playhouse Theatre		
Stage Right	Show-1	Show
Back Stage	Show-2	Show
Production Office	Show-3	Show
Recital Hall	Show-4	Show
Mixing Area	Show-5	Show
Sound Booth	Show-6	Show
Projector Room	Show-7	Show