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More diagrams, plans, pictures, etc. available upon request.

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| | |
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TECHNICAL INFORMATION

RAOUL-JOBIN HALL

Raoul-Jobin hall

Description

The Raoul-Jobin hall is an open-area facility, with no proscenium arch or permanent stage rigging. The facility has been carefully designed to deliver optimal acoustics. The concrete walls are covered with high-density wooden panels and finished with a cognac-coloured maple veneer. The panels are damped with olivine (volcanic sand) and shaped for acoustic diffusion. The concrete floor has an acrylic finish.



A vertically mobile acoustic canopy of high-density fireboard panels activated by six motors and partly covered with absorbent felt is suspended above the stage. Aluminum acoustic deflectors are installed between the panels on the underside of the canopy.

The basic reverberation time is 2.2 seconds in an acoustic configuration; with full curtains, the reverberation time drops to 1.3 seconds.

The control room is located at the back of the venue at corbeille level in a closed room. A mixing position can be accommodated at the back of the venue on the main floor.(seats S1 to S14 and R1 to R15.

Retractable sound-absorbing curtains (32 ounces, grey, in 1.32m [52"] sections) can be extended along 85% of the venue walls. These curtains are stored in special pockets, mounted on rails, making it possible to tailor the hall acoustics to the type of performance.

The base of each audience seat connects to a ventilation system providing fresh air via a plenum chamber under the seats. This system is completely silent.

Over all dimensions :

Length 40 m (132')
Width 22 m (73')
Height 18 m (59')
Stage height 1 m (3'3')



Capacity : 962 seats

Main floor 510 seats, main floor loges 24 seats
Corbeille 173 seats, Corbeille loges 22 seats
Corbeille behind the stage 66 seats,
Balcony 137 seats, Balcony loges 30 seats

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TECHNICAL INFORMATION

RAOUL-JOBIN HALL

Stage

Access

The loading dock is located on Côte de l'Escarpe, on the east side of the building. One truck at a time can access the loading dock. Vans 45' or 53' in length must obtain special permission. Please contact the technical director in advance.

Dock dimension : 1m (3'3'') height, door width 2,4m (8'), door height 3,35m (11').

Elevator :

One elevator, from loading dock to technical backstage :

1,80m (6') width, 3,55m (11'8'') length, 2,2m (7'6'') height.

One elevator, from technical backstage to stage floor :

1,85m (6'2'') width, 3,6m (11'10'') length, 2,15m (7'4'') height.

Dimensions

The stage is semi circular and measures 20 m (65') and width by 11 m (36') at maximum depth. A wooden screen of 4m (10'8'') forms the backdrop. Behind the claustra is a crossover corridor measuring 2 m (6'8'') in width by 2,8m (9') in height. A stairway measuring 1 m (39'') in width is on each side of the stage. Two double doors on each side access to backstage. Those doors are located 5m (15'4'') from downstage, and measure 2m (7') in width by 2m (7') in height.



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Stage manager's office

Two technical offices are located on each side of the stage. They each have a window to the stage, a video view of the stage, a public call button and a stage announce to the dressing rooms.

Rigging

A circular truss expected to install curtain or other technical equipment (lighting, LED screen, multimedia) is permanently installed following the contour of the stage.

Four pipes hooked on Canopy allow the installation of legs.

There is no fly system. However, 30 one-ton rigging points are available: 18 are above the stage and 12 are above the seats. Close to those points, there is an electrical outlet 20A/250V 3Ø (L15-20R).
(Rigging point diagram upon request)

Stage (continued)

Accessories

Risers :

Risers (Plato brand) are adjustable in height by multiples of 0,2m (8'')

- 10 risers 1,2m x 2,4m (4'x8')
- 12 risers 1,2m x 1,2m (4'x4')
- 3 risers 1,2m x 0,6m (4'x2')
- 2 risers 2,4m x 0,6m (8'x2')

Lecterns (Wenger):

- 24 lecterns Le Bravo (double)
- 16 lecterns Roughneck (single)
- 25 lights for lecterns

Chairs (Wenger):

- 55 chairs Symphony 470 mm (18,5'')
- 6 chairs Symphony 495 mm (19,5'')
- 3 chairs Conductor /Bassist
- 4 chairs Musician 406 mm (16'')
- 10 stools of 685mm (27'')

1 Presentation podium with the option of a custom logo panel (13'' 5/8 Large x 9'' 3/4 Height x 1/4'' width)

Curtains

A set of black velvet curtains of 12m (40') high is available in different configuration:

- Backdrop, Wood screen only
- Up stage legs
- Backdrop Full
- Down stage legs

4 self support curtains of 2,1m x 3m (7'x10') upon request

Instruments

Two pianos Steinway Hamburg

- 1 Steinway D578182 (2007) Standard tuning **LA-442**
- 1 Steinway D417900 (1969) Standard tuning **LA-442**

One Concert Pipes Organ, builder Casavant et Frères Opus 3896 (2013)

Mechanical action with electro-pneumatic support.

37 stops, 51 rows, 2846 pipes.

2 consoles with 3 keyboards each (Positif, Grand Orgue et Récit). The mechanical console is attached in front of the instrument. The electric one is mobile and can be place on stage. Each console is equip with an MIDI interface.

More specifications can be provided upon request.

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TECHNICAL INFORMATION

RAOUL-JOBIN HALL

Instruments (continued)

One positive organ Opus 48, builder: Hellmuth Wolff (2006)

53-note keyboard (C1 à F5) 4 stops (Bourdon, flûte, doublette, petite quinte). Keyboard divided between C and C# at 440Hz, between C# and D at 415Hz, between D and D# at 392Hz. Keyboard transposer for the 3 registers. Bourdon, Flute, Doublette are separated into bass and treble. Petite quinte: treble only.

Standard tuning **LA-442**

A flemish harpsichord Dunken, builder Yves Beaupré (2005)

Two 53-note keyboards (F1 to F5), 2 sets of 8', 1 set of 4'

1 lute with triple transposition (A = 440 Hz, 415 Hz, 392 Hz)

Standard tuning **LA-442**

A set of baroque timpani, Lefima

Model : 57cm (23''), 63cm (25'') et 72cm (29'')

Drums set Yamaha Absolute Hybrid Red Autumn

Bass drums: 18x14, 20x16, 22x16

Snare drum: 14x5.5

Toms: 8x7, 10x7, 12x8

Floor toms: 14x13, 16x15

Drum stool Yamaha DS840

Snare stand Yamaha SS850

Zildjian cymbals

K Custom Dark Hi-hats 14

K Custom Fast Crash 14

K Custom Dark Crash 16

K Custom Dark Crash 18

K Custom Dark Ride 20

Lighting

Console

GrandMA2-Light

Strand Outlook, house lights controller

Dimmers

Strand RC21, 96 dimmers 2.4 kW (8 of them are for the canopy lights)

ETC Sensor, 24 dimmers 2.4 kW

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TECHNICAL INFORMATION

RAOUL-JOBIN HALL

Lighting (continued)

Controls and interconnections

A network system MA2 compatible, 2port Node on PC Pro

A full interconnection system is installed throughout the building. Access to all DMX and CAT5e connectors is located at the technical backstage (stage right) thru a patch bay.

Fixed equipment

Corbeille

- 1 Lekos Robert Juliat 614SX 1000W

Balcony

- 16 Lekos Robert Juliat 714SX 2000W

Ceiling

- 4 Moving-Lekos ADB Warp-M 800W
- 4 Lekos Robert Juliat 714SX 2000W

Balcony technical catwalk

- 12 Lekos Robert Juliat 614SX 1000W
- 24 PARs 64 Medium flood 1000W
- 4 Fresnels Strand 3480 2000W
- 2 Moving-LED Wash JB Lithing A8

Canopy

- 6 Moving-lights HighEnd SolaSpot pro 1500
- 4 Moving-lekos ADB Warp-M 800W
- 6 Moving-LED Wash JB Lithing A8

Claustra

- 8 custom RGB LED

Movable equipment

- 8 Moving-lights SGM Giotto 400 CMY
- 8 PARs 64 1000W
- 6 Lekos Robert Juliat 714SX 2000W
- 2 Fresnels Strand 3480 200mm (8'') 2000W
- 8 Robe - *Tetra* 2 moving LED Bar.

Miscellaneous

- Haze machine MDG atmosphere (upon request) with DMX interface
- Accessories for spotlights
- Set of standard Rosco and Lee Filter gels
- Gobo holders and Iris for each Leko
- 4 booms 2,4m (8') with base
- 20 Floor plates for spotlights

Lighting (continued)

Power distribution

There are several electrical panels with female Cam type outlet.

- 1 panel 100A 120/208V 3Ø with isolated transformer and/or isolated ground backstage left (for sound)
- 1 panel 200A 120/208V 3Ø with isolated transformer backstage left (for video)
- 1 panel 200A 120/208V 3Ø backstage right (for motors)
- 1 panel 400A 120/208V 3Ø backstage right (for lighting)
- 1 panel 200A 120/208V 3Ø located outside at the rear of the building (for mobile studios/trucks)

An external auxiliary power source input can be used to supply the building requirements.

- 1 input 800A/600V 3Ø with male Cam Lock connectors type.

Sound

Console

Allen & heath SQ7 with Waves card

- 2x Dx 168 (16in 8out Slink)
- Plug in waves : Exhaustive list on demand

Yamaha M7CL 48 for monitors (upon request)

House speakers

- 8 L-Acoustics ARCS hung by 4 on each side (60°H × 90°V diffusion)
- 2 d&b B2 sub-woofer cabinet
- 28 Kling & Freitag CA106 delay speakers
- 6 Kling & Freitag CA106 front fill speakers
- 4 Kling & Freitag CA106 Corbeille behind the stage
- 5 d&b E8 front fill (upon request)

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TECHNICAL INFORMATION

Sound (continued)

RAOUL-JOBIN HALL

Amplifiers

- 2 amplifiers L-Acoustics LA8
- 14 amplifiers Lab Gruppen FP+ series
- 1 L-Acoustics LA4 for KIVA
- 1 d&b D12 for sub-woofer
- 2 d&b D6

Stage monitors

- 10 Monitors 45° d&b MAX12 passive speakers.

Stage monitor amplifiers

- 8 channels of d&b D6
- There are 8 amplifier outlets: 3 stage left, 5 stage right.

Interconnection

A full interconnection network is available throughout the building. Access to all connections is located at the technical backstage right through a Bantam TT patch bay.

Intercom

A 2-channel intercom network is available at several locations throughout the building.

- 1 base ClearCom MS440 is located on each side of the stage.
- 1 base Telex BTR800
- 4 Wireless stations Telex TR800
- 6 Portable stations, 1 channel, ClearCom RS601
- 2 Portable stations, 2 channels, ClearCom RS602
- 4 Combo headphone/microphone Telex PH-88
- 8 Combo headphone/microphone Sennheiser HMD25

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TECHNICAL INFORMATION

RAOUL-JOBIN HALL

Sound (continued)

Microphones, accessories

Microphones

| | | | | | |
|----|---------------|---------------------------|----|---------------|-----------------------|
| 6 | Sennheiser | e604 | 2 | Beyer | M88 |
| 6 | Sennheiser | E945 | 4 | Crown | PCC160 |
| 1 | Shure | Beta 91 | 10 | Radial | JDI (boîte directe) |
| 10 | Shure | SM58 | 2 | Radial | JD.ST.(boîte directe) |
| 6 | Shure | SM57 | 4 | Klark Teknik | DN100(boîtirecte) |
| 2 | Shure | Beta 52a | 3 | Audiotechnica | ATM350 |
| 2 | Shure | Beta 87a | 4 | Neuman | KM184 |
| 2 | Shure | Capsule UR2 beta87A | 2 | DPA | 4099 |
| 6 | Audiotechnica | U857QL (4 bases de table) | 5 | DPA | 4088 |
| 2 | AKG | C414 | 2 | DPA | 4021 (ACC. Piano) |
| 3 | AKG | 480 | 7 | Shoeps | CMC6 /MK4 |
| 2 | Royer | R10 | 2 | Shoeps | CMC6 /MK2 |

Wireless microphones

- 6 Shure wireless systems UHF-R with 4 handheld UR2 microphones SM-58 or 4 belt-pack UR1
- 3 Shure wireless systems ULX with 3 handheld microphones SM-58 or 3 belt-pack ULX1 (upon request)

Personal monitor systems

Personal monitor system wireless Sennheiser; 6 transmitter, 6 receptors, model SR 300 IEM G3-A with 5 in-ears model Shure SCL4-K

Microphones stands (K&M)

| | | | |
|----|--|----|-------------------------------|
| 4 | Round base | 10 | Tall stand with long boom |
| 10 | Small stand with short boom | 3 | Table stand |
| 2 | Tall-studio stand with counterweight arm | 2 | Tall Studio stand without arm |

Cables

Snake, sub-snake and XLR cables for the proper functioning of the system.

Multimedia (Additional fees)

Projector and screens

- Projector Christie Roadster S+20K, 20 000 lumens, 3-chip DLP, Resolution SXGA+ 1400 x 1050.
- Lens choices for Christie Projector :
 - SXGA+ 1.4-1.8 : 1
 - SXGA+ 1.8-2.6 : 1
 - SXGA+ 2.6-4.1 : 1
- Screen DA-Lite, front projection surface 4,57m x 6,09m (15'x 20') with leg
- Screen AV Sumpfl, front projection surface 3,35m x 6,09m (11'x 20') with leg
- Switcher Roland V800HD MKII
- Cables and adaptator

Video Recording and Webcasting

Cameras

- 5 Panasonic AW-UE 70
- 1 Panasonic AW-UE 150
- 1 Panasonic AG-CX 350
- 1 Canon EOS 90D + 1 Canon EFS 18-135mm Lens

Video Control

- 2 Panasonic AW-RP150 Remote Camera controller
- 1 Blackmagic design ATEM Mini Pro ISO
- Roland Multi format Video Switcher V-800 HD MKII
- 2 Black Magic Design 12G SDI Video Hub
- Kramer VS-41H 4 X 1 HDMI Switcher
- Xvision SDI DA 1:4 converters
- Xvision SDI à HDMI et HDMI à SDI converters
- Xvision SDI à Fibre et Fibre à SDI converters

Miscellaneous

Hearing impaired persons

The program sound is transmitted on UHF frequency 518 MHz.
4 receivers with headphones are available upon request.

Dressing rooms

Raoul-Jobin Hall

Located close to the stage, our spacious dressing rooms are all equipped with showers, toilets, mirrors, program sound and poster board. Telephone, audio and video program can be found in the green room. *(Plans upon request)*

- 3 rooms - 2 persons
- 1 room - 4 persons.
- 2 rooms - 8 persons.
- 1 production room (6 persons) with Internet access and telephone.
- 1 laundry
- 1 green room

Orchestra loges

Located at the 300 level, the orchestra loges are divided into 3 sections: one individual loge and two loges each accommodating 20 people. They are equipped with showers, toilets, mirrors, program sound and bulletin boards. There is also a large common area

Miscellaneous (continued)

AV Interconnection

An interconnection network with XLR, intercom, DMX, CAT5e, BNC-RGBHV is available at various points throughout the building. Access to these connections is located at the technical backstage right (patch bay).

Stage crew

Raoul-Jobin Hall (technicians, wardrobe, projectionists) operates within the jurisdiction of the International Alliance of Theatrical Stage Employees & Moving Picture Technicians, Artists and Allied Crafts (I.A.T.S.E. Local 523).

Parking

A public pay parking lot is located on the west side of the building. The stage door is located inside the parking lot and provides direct access to the dressing rooms. (Plan upon request)