

MAIN HALL GENERAL TECHNICAL INFORMATION

The details contained in this document are provided for information purposes only. They may be changed, in part or in whole, without prior notice and based on the needs of Baluarte.

Only the specific terms and conditions contained in the corresponding contract will be considered binding.

Baluarte is a multi-use building that is split into four main blocks: the Main Hall, the Chamber Hall, the Conference Zone, and the Fair and Exhibition Hall.

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Address and Contact Details

Postal address

BALUARTE
Palacio de Congresos y Auditorio de Pamplona
Plaza de la Constitución s/n
31002 PAMPLONA
Tel: (+34) 948 066 066 Fax: (+34) 948 066 067

Website

www.baluarte.com

E-mail address

baluarte@baluarte.com

Standard working hours for technical staff on performance days

There are no timetable restrictions. Nonetheless, the planned work schedule must be provided at least 15 days in advance.

Setup days

09:00 to 14:00 and
16:00 to 22:00

Office hours

09:00 to 14:00 and 16:00 to 19:00
Monday to Friday

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Ticketing		948 066 060	ticketing@nicdo.es
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Customer Services			baluarte@baluarte.com

Location and Access

Baluartes is located in the city centre, right next to the Citadel and the bus station.

TRUCKS AND CARS

Trucks can gain access to the venue via Calle Yanguas y Miranda. Truck route (main roads):

- **From Bilbao – San Sebastián - Irun:**

By motorway, 3 Km after the toll in Sarasa, towards Pamplona city centre – Avenida Navarra – Roundabout and left turn into Calle Monasterio de la Oliva to Avenida Bayona – Continue down Avenida del Ejército to Plaza Príncipe de Viana - Left turn into Avenida San Ignacio – Left turn into Calle Estella to reach Plaza del Baluarte, position in right-hand lane and entrance to Loading Dock.

- **From Zaragoza - Madrid:**

Pamplona city centre motorway exit - Avenida Zaragoza - Plaza Príncipe de Viana - Left turn into Avenida San Ignacio – Left turn into Calle Estella to reach Plaza del Baluarte, position in right-hand lane and entrance to Loading Dock.

<https://maps.app.goo.gl/gpWvb76hSAJ34P2v9>

A paid car park is available in the building itself.

BY AIR

8 kilometres from Pamplona (Noain) Airport.

Airport information: (+34) 948 168 700

Approximate taxi price: €30

BY BUS

Central Bus Station 50 metres from Baluarte.

Information: (+34) 948 223 854

BY TRAIN

Train station 1.5 Km from Baluarte Convention Centre.

Information: (+34) 902 240 202

ARTISTS AND TECHNICIANS

Access for technical staff and artists is via "C" gate on calle General Chinchilla, s/n.

Loading / Unloading

Loading access to the building is gained via a tunnel leading to the loading dock. Trucks are then raised to stage level from there using a lifting platform.

Loading bay height clearance:	4,30 m
Lifting platform size:	3 x 17,90 m
Capacity:	40.000 Kg

Please get in touch with us to discuss larger

Size of the stage acces:	2,91 x 2,41 m
(width x height)	

Next to the lifting platform in the loading bay itself, there is a cargo lift to the stage wing.

Cargo lift size:	3,90 x 3 m
Maximum load:	2.000 kg
(width x depth)	

The loading dock is located in the right wing of the main stage.

<https://maps.app.goo.gl/gpWvb76hSAJ34P2v9>



Hall

The stage in this hall is front-facing, with the audience on two levels (Main Floor and Mezzanine). The hall has the following dimensions:

Maximum width:	27,36 m
Depth from proscenium:	43,88 m
Maximum height:	14,81 m
Number of entrances to the hall:	10 doors

CAPACITY

HALL AREA	CAPACITY	COMMENTS
Main Hall	1.003	Including 6 PRM + companions
Orchestra platform	86	This platform can be used as an apron, a seating area or an orchestra pit
Mezzanine	532	
Total	1.535	

The hall is equipped with 2 light bridges, the first at 68° and the second at 43° to the fall of the main curtain. The horizontal distances between the bridges and the main curtain are 6 m and 16 m, respectively.

The audio and lights control booth is located 28 m from the stage and 5 m above stage level, with an angle of 10°.

The spotlights booth is located 42.5 m from the stage with a viewing angle of 21°.

The hall is also equipped with six simultaneous interpreting booths, located next to the spotlights booth.

Audience

The building has a cafeteria and a restaurant.

Spaces for persons with reduced mobility (PRM) and companions are located in row 28.

Orchestra Pit

Orchestra pit that consists of a lifting platform of 2.59 x 22.68 m and a fixed area beneath the stage apron of 2.5 x 22.68 m.

Approximate platform area:	58,74 m ²
Approximate area beneath apron:	56,70 m ²
Total approximate area:	115,44 m ²
Approximate capacity:	80 musicians

Acoustics

REVERBERATION TIMES measured, Sec. (R.T.)

Frequency Bands, Hz

Frequency	125	250	500	1 K	2 K	4 K
R.T. (a)	2.00	1.33	1.01	0.82	0.86	0.88
R.T. (b)	2.50	1.36	1.14	1.04	1.25	1.28

Dressing rooms

LEVEL	NUMBER	SPACES	TOTAL
Stage	9	Doubles	18
Stage	2	VIP	2
Stage	2	24	48
Basement	4	24	96
Total capacity			164

The same dressing rooms are used for the Chamber Hall and the Main Hall.

All the dressing rooms have:

- Make-up benches
- Toilets
- Showers with hot and cold water

Inside the dressing rooms, there is CCTV for following the performance.

All the dressing rooms and adjacent corridors are fitted with loudspeaker systems for notifications from the stage manager position and access control points.

The building has one 60 m2 **rehearsal room** on the basement level for dance warm-up that is equipped with an baby grand piano and mirrors.

Stage

PROSCENIUM

Width	20 m
Height	12,20 m
Depth	
(From the inside of the firewall)	18,80 m
Apron	2 m
Right wing	3,70 m
Left wing	3,70 m
Width between galleries	24,25 m
Width between walls	27,40 m
Height of galleries	
1st gallery	13,50 m
2nd gallery:	17,74 m
3rd gallery	21,38 m
4th gallery	25 m
Grid height from stage	28 m
Grid height from ceiling	2,70 m

- Rigging gallery located on 1st gallery in right wing.
- The stage deck is made of 40 mm pine timber. An area of 12 x 9 m located 4.34 m back from the firewall has a space beneath that is accessible via trapdoors of 2 x 1 m. The timber can be disassembled, as can the supporting structure.
- The entire stage surface is covered in 10 mm plywood panels painted black.
- Stage slope: 0°
- It is dyed black with a matte finish.
- Nails can be used on the deck.
- It cannot be painted.
- The orchestra pit platform can be used to extend the stage as an apron. Use of this platform requires the removal (disassembly) of 86 seats from the first three rows.

Acoustic Chamber

Acoustic Chamber consisting of 7 ceilings, 7 vertical panels on each side and a back wall. The width at the proscenium is 20 m, reducing to 12.5 m over a depth of 16 m. The floorspace measures 250 m². This measurement is taken from the inside of the firewall.

Another configuration option is available that consists of 4 ceilings and 4 side panels. The dimensions in this case are 20 m at the proscenium by 15 m at the back, with a depth of 9.6 m.

The floorspace in this configuration measures 153 m².

The floorspace of the Hall can be extended by using the orchestra platform as an extension of the stage, in which case an additional 110 m² would become available.

RISERS

The Palace has risers of 2 x 1 m with legs of various heights, from 20 to 220 cm for the configuration of orchestra and choir stands.

Risers

- 20 of 4 x 4 cm.
- 30 of 4 x 4 cm.
- 40 of 4 x 4 cm.
- 50 of 4 x 4 cm.
- 70 of 4 x 4 cm.
- 100 of 4 x 4 cm.
-
- 130 of 5 x 5 cm.
- 150 of 5 x 5 cm.
- 170 of 5 x 5 cm.
- 190 of 5 x 5 cm.
- 210 of 5 x 5 cm.

Stage Machinery

STAGE

- 36** Motorised and computer-controlled 23 m fly bars.
Variable speed, max. 1.2 m/s. Max. load: 750 kg.
- 35** Counterweighted 23 m fly bars manually controlled with ropes.
Max. load: 500 kg.
- 12** Spot winches. Max. load: 250 kg.
Variable speed, max. 1.2 m/s.
- 4** Panoramic lateral fly bars. Load 500 kg, length 6.9 m and
variable speed, max. 0.8 m/s.
- 1** Height-adjustable main red valance, from 12 m to 8.70 m.
- 2** Width-adjustable lateral false prosceniums, from 20 m to 14 m.

Stage dressing

A. MAIN CURTAIN

- Fly and Traveller curtain. Red.
- The traveller curtain is operated manually from the left wing or motorised and controlled from the motor control console.
- The fly curtain is motorised and controlled from the motor control console.
- The red valance is operated via counterweights from the rigging gallery.

B. BLACK MASKING

- 1 black C1 flame-retardant blackout fabric.

Design:

- Smooth.
- Upper edge: webbing, eyelets, cotton tapes.
- Bottom of legs and backdrops: sleeve for bar with openings and skirt.
- Bottom of borders: sleeve.

Number	Item	Width (m)	Height (m)	Comments
12	Legs	5	13	Blackout fabric
6	Borders	25	4	Blackout fabric
1	Backdrops	25	13	Two-piece blackout fabric
1	Backdrops	25	13	One-piece blackout fabric
1	Backdrops	25	13	One-piece velvet

C. DANCE FLOOR

- Colour: Grey / Black
- PVC
- 14 rolls of 1,6 x 15m

D. SCREENS:

- White PVC rear projection cyclorama 25 x 13 m (height).
- Anthracite grey PVC rear projection cyclorama 25 x 13 m.

E. GAUZE CURTAINS

- Black GobelinTulle scrim. (Upper eyelets, simple lateral finish and lower sleeve for tube). Dimensions: 25 x 13 m.
- White GobelinTulle scrim. (Upper eyelets, simple lateral finish and lower sleeve for tube). Dimensions: 25 x 13 m.

Lights

A. CONSOLES

- Light console ETC ION xE 20
- 20 submaster
- 5000 channels | 2048 parameters
- Local DMX Out x 4
- 12 Universes DMX Node by ethernet (dimmer room)

B. NETWORK

Red Ethernet BOOTH / DIMMERS / STAGE

Red DMX BOOTH / DIMMERS / STAGE

The lights console can be positioned in 3 different locations:

- Lower booth located 28 m from the edge of the stage and 5 m above stage level.
- Stage.
- Main hall, raw 16.

C. ETHERNET NETWORK

UTP category 5 structured cabling network. The network patch is located in the booth / dimmers / stage.

D. DIMMERS, CIRCUITS AND CONNECTIONS

The stage lighting installation is based on direct circuit dimmers with no intermediate patch, distributed as follows:

- 581 circuits - 3 kW ETC SENSOR dimmer
- 77 circuits - 5 kW ETC SENSOR dimmer

Electricity supply to the battens is carried through cable reels with Harting 16-pin connectors from the grid. 28 with 6 x 2.5 kW circuits and 6 with 3 x 5 kW circuits are available. The reels are mobile and can be assigned to any bar. Final connections are performed using special boxes that are installed on the fly bars in which six circuits/dimmers are located. These are duplicated with 16 amp (blue) Schuko (type F) sockets. A direct 16 amp socket is included in each box. (Schuko with red cover) for non-adjustable devices (moving lights, strobe lights, etc.) duly protected in a fuse box.

Maximum consumption: 400 A

There are two connections for guest companies with two sets of 400A Power-lock sockets and 32A and 63A CETAC sockets located in the right wing of the stage.

The maximum permitted consumption for each one of these connections is 263 kW in 380V, 3P+N+E.

SPOTLIGHTS

Cantidad	Tipo	W	Ángulo	Marca/Modelo	Accesorios
42	PC'S	2.000		SELECON ARENA	P. V.
50	PC'S	1.200	10°/65°	SELECON SPC	P. V.
48	Open Zoom Profile	750	25°/50°	ETC Source four Zoom	P.Pg.
18	Closed Zoom Profile	750	15°/30°	ETC Source four Zoom	P.Pg.
130	PAR 64	1.000		LDR Palco	P.
24	Closed zoom profile, Only available in Front, not in stage	2.000	11°/22°	ADB Europe DN205	P.Pg.
16	Open zoom profile, Only available in Front, not in stage	2.000	13°/36°	ADB Europe DS 205	P.Pg.
24	PAR LED RGBMA	284	11° 22° 30° 52	ELATION KL PAR FC	P.
30	Floodlights LED ZENIT	565	60° x 10°	CAMEO	
24	Moving spot OPUS X Profile	1.200	6° 48° Spot	CAMEO	Consult price
2	HMI follow spots	2.500		Robert Juliat ARAMIS 1013	P.
100	Asymmetrical floodlights	1.000		SELECON AURORA CYC	P.

P = Colour frames V = Barndoor

Pg = Gobo holder

ACCESSORIES

Item	Comments
20	Scaffold towers with intermediate platform 5 m (height)
20	Scaffold towers 3 m (height)

EFFECTOS

- Smoke machine: : Robe 400 FT

**This equipment is shared by the entire convention centre.
Please check availability.**

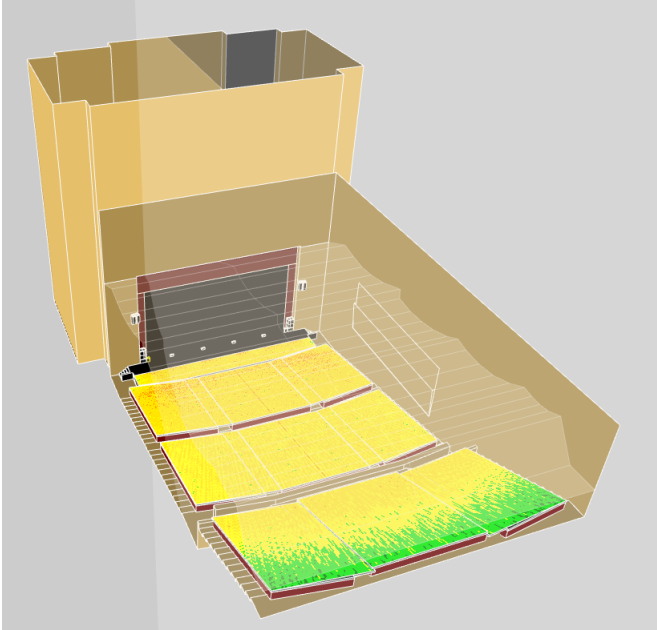
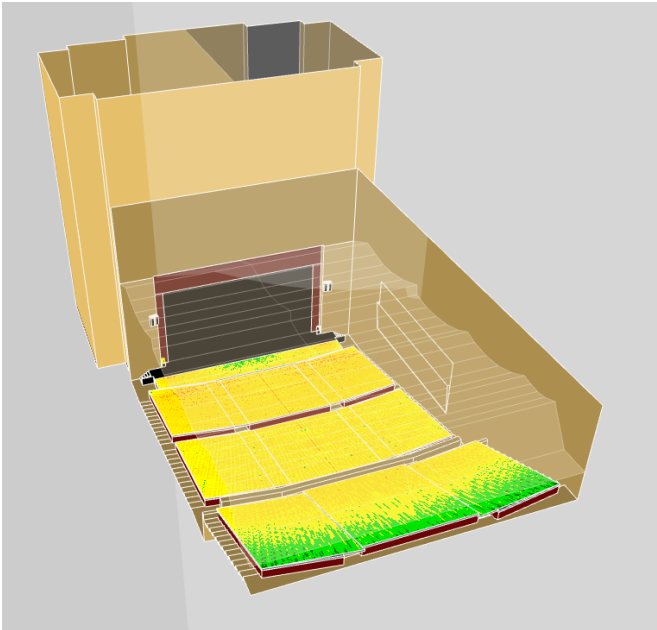
Sound

MIXING AND AMPLIFICATION

Cantidad	Aparato	Marca/Modelo	Observaciones
2	Loudspeakers (L, R)	L'Acoustics L2D	Main PA
4	Loudspeakers (FrontFill)	L'Acoustics X8	FrontFill Various configurations available
4	Loudspeakers (FrontFill)	L'Acoustics X12	FrontFill Various configurations available
6	Loudspeakers (subwoofers)	L'Acoustics Ks21	Subwoofers Various configurations available
4	Amplification System	L'Acoustics LA7.16i	3 + 1 in reserve
1	Signal Processor	L'Acoustics LA P1 CE	PA signal processor
1	FOH Audio Console	Yamaha PM3 Rivage	Located in audio control
1	Signal Processor	Yamaha DSP-RX	Located in audio control
1	Interface Audio AD/DA DANTE	Yamaha RIO1608-D2	Located in audio control
2	Interface Audio AD/DA DANTE	Yamaha RIO3224-D2	Located in RDEA

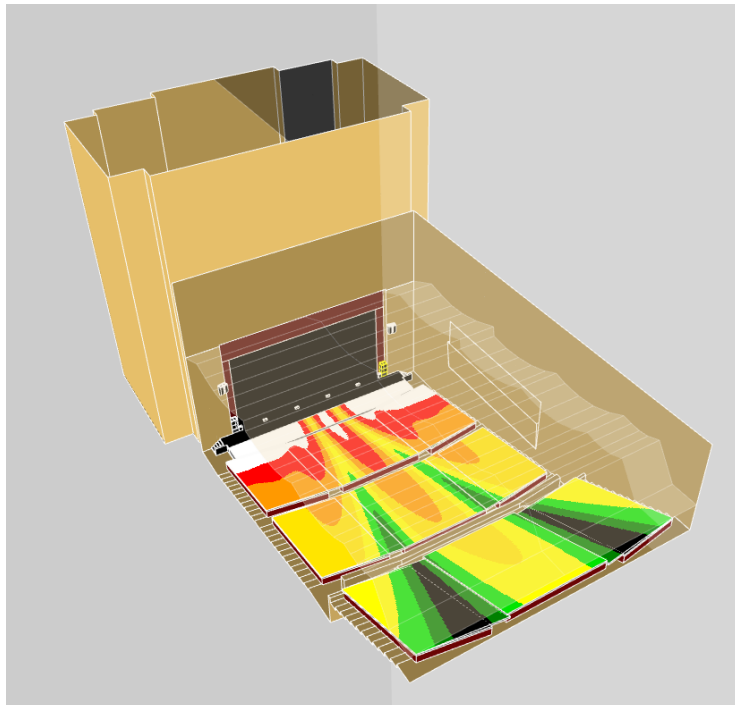
CHECK PRICE WITH COMMERCIAL DEPARTMENT

We have various configurations and layouts available for the FrontFill and Subwoofers based on the needs of the show.

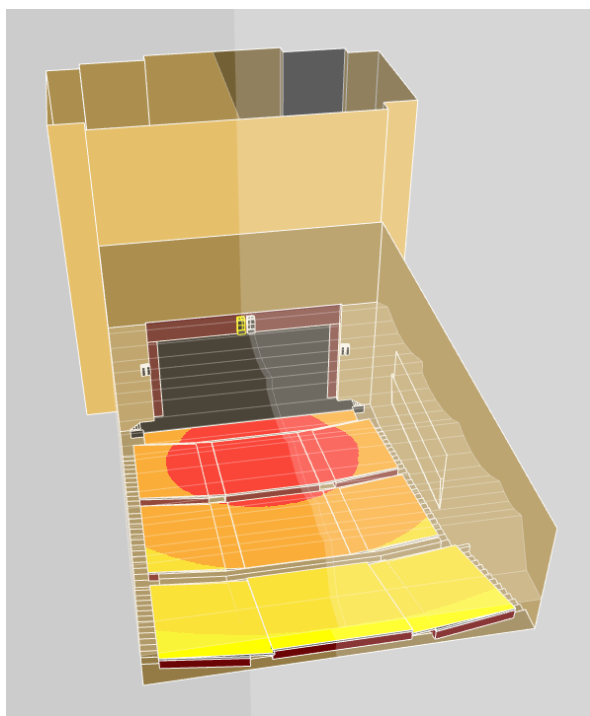
FRONTFILL	Option 1
4 L'Acoustics X8 distributed around the front of the stage plus 2 L'Acoustics X12 to boost the sides.	
	
FRONTFILL	Option 2
4 L'Acoustics X12 at the side of the stage, freeing up the middle.	
	

SUBWOOFERS**Option 1**

Two stacks of 3 subwoofers each in a cardioid configuration on the floor along the sides of the stage (L, R)

**SUBWOOFERS****Option 2**

Two stacks of 3 subwoofers each in a cardioid configuration hung in a central cluster



GUEST COMPANY PA

Besides the fixed PA of the auditorium, there are two 1 Tn motors on each side for hanging the PA of guest companies.

AUDIO RETURNS

The audio returns network distributes audio signals through the various boxes installed throughout the Auditorium for supply to self-amplified speakers and other systems.

The selection and routing of these signals is performed on the racks of the RDEA, which gather the returns from the various areas and external units.

MIXING TABLE POSITIONS

The mixing tables can be located for connections to the network of sources coming from splitters and the returns network at the following points:

- Audio booth.
- Central aisle of the seating area.
- Monitor mixing table in the stage wings.
- Mobile units (UEX) recording systems connected via the specific panel.
- The entire audio system at the Convention System is powered by an electricity grid that is separate from the main power supply, and is distributed via the various connection boxes and booths.
- The strength of this power supply is: 180 Kw at 380 v 3P+N+E. It is located in the left wing and has 1 CEE 125A, 1 CEE 63A and 1 CEE 32A.

Video

VIDEO PROJECTOR

NEC PA1004UL (LCD laser, 10000 lum. Resolution WUXGA with NEC NP43ZL (2.99-5.93:1), NEC NP40ZL (0.79-1.11:1), NEC NP41ZL (1.3-3.02:1) lenses
NEC NP15ZL (4.5-7:1)

SCREENS

9.5 x 7.2 screen with metal frame, front projection screen fabric (Format 4/3)
6 x 1 screen for subtitling with metal frame, front projection
10 x 6.25 screen with metal frame, front projection screen fabric (Format 16/10)

NUMBER	DESCRIPTION	BRAND/MODEL	COMMENTS
1	LCD Laser video projector, 10,000 lumens, resolution WUXGA	NEC PA1004UL	
1	Lens with 0.79-1.11:1 ratio	NEC NP40ZL	
1	Lens with 1.3-3.02:1 ratio	NEC NP41ZL	
1	Lens with 2.99-5.93:1 ratio	NEC NP43ZL	
1	Lens with 4.5-7:1 ratio	NEC NP15ZL	
1	9.5 x 7.2 screen with metal frame, front projection screen fabric		
1	6 x 1 screen for subtitling with metal frame, front projection		
1	10 x 6.25 screen with metal frame, front projection screen fabric (Format 16/10)		
1	Integrated HD camera. Video, control and power via IP. Supports 1080/50p, 1080i, 720p and 576i	PANASONIC	AW HE130KEJ
1	Control panel for cameras via IP. Complete camera and pan/tilt control with access to menu. Colorimetry control (R and B gain, R and B Pedestal, detail...). Ergonomic joystick control for pan and tilt. Supports IP control, as well as RS422	PANASONIC	AW RP150G
1	Simultaneous encoding and recording system. Enables recording on the internal network (on an internal server), USB or SD Card. Streaming encoding while recording.	MATROX	Monarch HDX
CHECK PRICE WITH COMMERCIAL DEPARTMENT			

DISTRIBUTION NETWORK

From distribution panels on Main Hall Stage Rack. Circuits are distributed to the entire building via switching matrices located in the control itself and in each one of the booths. Please request a plan for more information.

CAMERAS

There is one general front-view camera in each hall, which can be controlled from each one of the booths with a Pan-Tilt positioner.

There is another camera installed in the orchestra pit for the conductor.

VIEWING

Performance video monitoring system with viewing network displays on stage, in technical and translation booths, the pit, galleries, technical rooms and dressing rooms.

AUDITORIUM

All sound networks are concentrated in the Auditorium Stage Rack (RDEA) located in the left wing. The following networks exist:

Fibre network:

We have multimode fibre connections with LC connectors on the RDEA stage rack, control rack and amplification room rack.

Ethernet network:

UTP category 6 structured cabling network for making point-to-point connections. The patch is centralised in RDEA and there are network connections distributed around the hall in various boxes.

Audiovisual network:

There is a redundant network that connects various Netgear AV switches via multimode fibre on the RDEA stage rack, control rack and amplification room rack.

Simultaneous interpretation

A network and a PHILIPS conference management system is available with a Bitstream analogue-digital signal converter system that provides high-quality audio performance, up to 8 languages.

LIST OF EQUIPMENT

The Main Hall has 5 interpreting booths with double BUS DCN. This double BUS enables any interpreting booth in the building to be used with any of the DCN control units, enabling very simple configuration of the number of booths / languages assigned to an event.

Setup aids

- 2 Genie aerial work platform, working height 13.9 m
- 1 aluminium scaffold (up to 11 m)
- 1 aluminium ladder, 5 m

Props and orchestra

PIANOS

1 Steinway concert piano, model D N° 563981 tuned to 442.

1 Steinway concert piano, model D N° 411830 tuned to 442.

1 YAMAHA upright piano, model U3 N° A 3834053.

Standard orchestra chairs	88	Bergerault	B1001
Chairs for double bass players	8	Bergerault	B1006
Music stands for musicians	90		
Music stand lamps	44	Konig & Meyer	EP1L
Stands for the conductor	1	Bergerault	BPCH
Podium for the conductor	1	Bergerault	BPCH
Chair transportation trolley	4	Bergerault	CT24CO
Stand transportation trolley	4	Bergerault	CT20 P

Intercommunication

The Riedel matrix intercom system (Artist-64) combines control panels (Riedel RSP-2318) in both the sound and lighting control booths and in the stage wings (RDEC).

In standard configuration, the hall has 16 wireless beltpacks (BOLERO 6-button Belt-pack). Please contact the pertinent technicians for other possible configurations.

To guarantee good coverage throughout the stage space, 6 Bolero Active Antennas are installed at various points throughout Baluarte.

Main Hall (Standard Configuration)

Number	Item	Comments
16	6-button Riedel Bolero beltpack with earplug	1 x Hall Supervisor 2 x Stage Supervisor 1 x Motors 3 x Sound 4 x Lights 5 x Machinery
4	RSP-2318 Riedel Smart Panel	1 x Sound control 1 x Lights control 1 x Backstage 1 x RDEA

- Other configurations available upon request.
- Others intercom systems

BACKSTAGE

Riedel network intercom system consisting of:

Control console for the stage manager in right wing

- 1 programmable intercom panel
- 1 Phillips digital PA centre, with separate calls to:
- Dressing rooms
- Technical areas
- Adjustable hall light control
- Stage and circulation light control
- Monitoring screens: General view

Aids for external TV

A rack is located in the loading bay of the building, next to the loading platform, from where all the triaxial cables run to the entire building. A LEMO 3 connector is used for this installation.

Plans

The following plans are included with this document:

- Main Hall floor plan
- Main Hall section plan