T E C H N I C A L   R I D E R

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Conversion : 1 m = 3.28 ft / 1 kg = 2.20 lbs

Auditorium in modular configuration
Stage virtual tour : http://vvcolisee.coliseeroubaix.com/VVTechnique
Building virtual tour : http://vvcolisee.coliseeroubaix.com/VVCom

Large capacity / flat floor, sub balcony & balcony

stalls & floor room	671 seats (including 4 PRM)
sub balcony	530 seats
balcony	476 seats
balcony boxes	50 seats
Total	**1727 seats**

Small capacity / flat floor, sub balcony & balcony

stalls & floor room	671 seats (including 4 PRM)
sub balcony	108 seats
balcony	476 seats
balcony boxes	50 seats
Total	**1305 seats**

Small capacity / tier & balcony

stalls seats & tier room	609 seats (including 4 PRM)
balcony	476 seats
balcony boxes	50 seats
Total	**1135 seats**

Small capacity / tier (only)

stalls seats & tier room	609 seats (including 4 PRM)
Total	**609 seats**

Off any easements: stage left and stage right sound wings, orchestra pit, technical boards reserve in audience.
90 m² orchestra pit, discoverable by removing the first four rows of the parterre.

Large capacity

Small capacity

Orchestra pit

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S T A G E   Stage Manager Philippe LENOIR

Width	29 m (31 m from wall to wall)
Depth	15 m (14 m useful) / off orchestra pit
Height under grid	18.40 m
Proscenium frame	18 m x 8 m (max)

Stage machinery

Fire curtain (1.07 m to 1.33 m from stage edge)

! ► AT NO TIME, ANY ELEMENT OF THE SET OR EQUIPMENT MUST BE INSTALLED UNDER THE FIRE CURTAIN. COMPULSORY OPERATING TEST BEFORE EACH SHOW IN THE PRESENCE OF THE AUDIENCE.

1 trap room level - 2.80 m (depth = 8 m x width = 14 m)
1 way possible between stage right and stage left through the basement with an access by a steep staircase at the bottom of the stage

Proscenium 2 levels/audience: -1.40 m: orchestra pit
                                                    0 m: audience level with or without seat

Rigging

Forestage
2 brackets equipped with a mobile trolley and electric hoist 1 ton
Centre stand: 13 m; positioning / front stage from 0.5 m to 1.60 m (in audience)
Stage
Possible grip on concrete vault (punching vaults: 3 m)
Easy access; loading capacity: 1 ton per point.

Hangers / Bars

Q	Designation	Type	Load	Length
39	manual pipes	Countered	250 kg	22 m
4	electrical pipes	Countered	280 kg	22 m
5	electrical pipes	Direct Tracking	380 kg	22 m
4	lateral manual pipes	Countered	250 kg	10 m
2	manual pipes "Harlequin"	Countered	250 kg	22 m
1	lighting bridge to the inner proscenium	Direct Tracking	800 kg	18 m

Drapery

Q	Designation	Type	Width x Height
1	Greek forestage curtain (electric opening with dimmer)	Blue Velvet Shakespeare	2 x (20 m x 8.87 m)
2	Borders: forestage curtain & lightning bridge	Blue Velvet Shakespeare	(30 m x 4 m)
1	projection screen (old = yellowed)	White PVC	(8 m x 6 m)
1	background	White PVC	(18 m x 9 m)
2	half backdrops	Black velvet 560 gr/m2	(10 m x 9 m)
6	sets of legs	Black velvet 560 gr/m2	(5 m x 9 m)
5	borders	Black velvet 560 gr/m2	(20 m x 3 m)
5	borders (old)	Black velvet Molière	(18 m x 3 m)
1	border	Black velvet 560 gr/m2	(20 m x 4.5 m)
1	white haze	Gobelin	(18 m x 9 m)
1	black haze	Gobelin	(18 m x 9 m)
1	stage track	Show track	(22 m)

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Floor

Flat stage
Wooden floor (1 m x 1 m plates) total surface area: resistance 700 Kg/m2
Dance floor: 1 reversible black/white (w = 16 m x d = 15 m)
                 1 black (w = 20 m x d = 14.5 m)

Miscellaneous

13 Samia risers (2 m * 1 m) ; height: 20, 40, 60, 80 cm
2 risers (1 m * 1 m) ; heigh: 60, 80, 100 cm
2 risers (1 m * 0.5m) ; heigh: 60, 80, 100 cm
Industrial trucks
1 loading ramp Stacco (3.80 m)
1 genie lift, MEWPS type 1A: **COMABI / M 130** (working height: 13 m) *   **(CACES R386-1A)**
1 genie lift, MEWPS type 3A: **JLG / 20DLV** (working height: 8 m) *   **(CACES R386-3A)**

! ► *Need CACES & IPE to use.

35 music stands equipped with lamps

Locksmith, technical access

1 stage grid
3 loading gateways
1 electrician gateway
1 audience/lighting gateway (tubes height: 9.60 m and 10.20 m ; Distance: 6.55 m from the front stage)
1 forestage technical hang stage right and stage left on 3 levels.

Loading dock and equipment

Access from the car park by a 4 m wide * 5 m high gate, opening on the loading dock (h = 1.15 m / Street); serving a scenic elements room (120 m^2) then directly on the stage by a 3 m wide * 4 m high fire door.
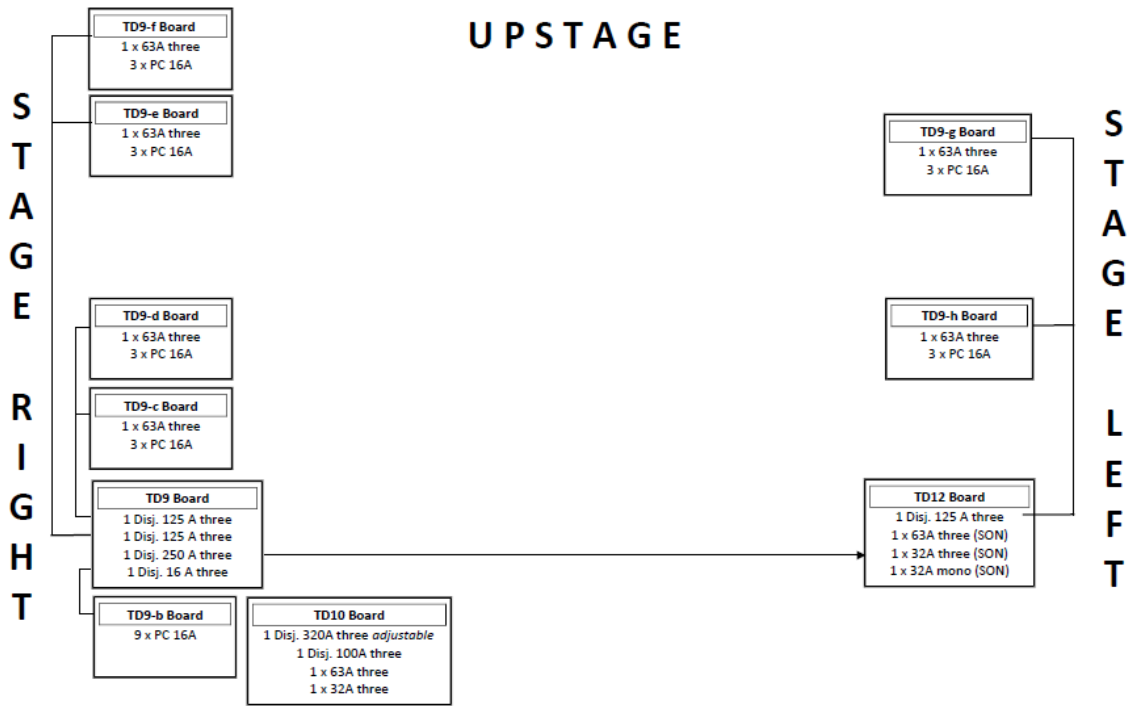
! ► Must be closed during performances

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LIGHTING EQUIPMENT
Light ingineer Florian BRASIER

Network

Three-phase 240/400 V + ground (neutral impedance)
Differential protection and ungrounded

Power

Lighting desk

AVAB Type CONGO	
Specifications	**Accessories**
40 work registers * 99 pages	3.5 " floppy drive + usb
40 enslaved customizable keys * 5 pages	2 Monitors
3072 channels	Alphanumeric keypad
Electronic patch	Converter
2 DMX 512 Universes	Wireless router
6 Universes via Artnet protocol	

Power supply

Designation	Q	Connectors	
Dimmers	132 x 3 Kw	Legrand 2p + T / 16A	ADB type Eurodim 2 Digital
	12 x 5 Kw	Legrand 2p + T / 32A	ADB type Eurodim 2 Digital
(mobile)	12 x 3 Kw	Legrand 2p + T / 16A	ADB Memopack 30
(mobile)	6 x 5 Kw	Legrand 2p + T / 32A	ADB Memorack 30
Direct 220V	10 x 3 Kw	Legrand 2p + T / 16A	(lighting bridge + forestage gateway)
	5 x 10 Kw		

Mobile Power supply units

Q	Designation	Output	Input
2	Mobile Power supply unit	6 x 2P+T / 16A	P17 / 32 A tri + N + T
1	Mobile Power supply unit	2 x P17 / 32 A tri + N +T	P17 / 63 A tri + N + T

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Projectors

Q	Designation	Power	Model	Brand
16	convex plan	2 000 W	HPC 329	R. Juliat
20	convex plan	2 000 W	FL 2000	Scénilux
84	convex plan	1 000 W	FL 1000	Scénilux
8	ultra-short profiles (29° - 50°)	2 000 W	713 SX2	R. Juliat
8	short profiles (15° - 40°)	2 000 W	714 SX2	R. Juliat
6	short profiles (12° - 43°)	2 000 W	714 S	R. Juliat
20	short profiles (16° - 35°)	1 000 W	614 SX	R. Juliat
4	ultra-short profiles (28° - 54°)	1 000 W	613 SX	R. Juliat
10	zoom profiles 25-50°	168 W	S4 Led Lustr Série 2	ETC
30	pars 64 (with set of lamps CP 60, 61, 62, 95)	1 000 W		Thomas
3	pars 64 (alu) (same set of lamps)	1 000 W		DTS
2	fresnels	5 000 W		Film Gear
4	½ Bars Aircraft (black) + 4 pars (black) 110V	250 W		
2	½ Bars Aircraft (alu) + 2 pars (alu) 110V	250 W		
2	½ Bars Aircraft	600 W		
2	Bars Aircraft CS4 (Aircraft enslaved)	250W * 4	CS4	Studio Due
2	Blinders *4 (2 circuits)	650W * 4		
2	Fresnel F51	500W		ADB
6	Bars of 5 F1	30W * 5		DTS
12	BT 500	500 W		Scénilux
2	Follow spot HMI 1200	1 200 W	Korrigan	R. Juliat
	In the right and left balconies. 18 m from front of stage.			
20	Horizïodes Quartz Color	1 250 W	Iris 1	Ianiro
13	Horizïodes LTM 1000	1 250 W	LTM 1000	LTM

Miscellaneous

8	Projector stands		
2	Manfrotto stands	(h : 3,50m)	
12	Lateral scales	(h :2.70 m)	
	Gobo holders, Iris, gelatins		

Effects

1 Fog machine Hazer HZ500

Possible lighting desk positions

- In the middle of the auditorium
- In the cabin (at the bottom of the balcony)
- In the right balcony, same place than the followspot (only if not used)
- On stage

In any case, provide technical reserve.

1	Splitter DMX 512 (on stage), 6 outputs (doubled XLR 5 points, XLR 3 points)
1	Artnet / DMX converter (on stage), 8 outputs (XLR 3 points)
4	DMX links from stage to Front House desk position (stalls)
1	Ethernet cat. 5 link from stage to Front House desk position (stalls)

Map of the light circuits on request (Possible recovery of the lighting bridge channels at stage right gateway and of the gateways channels at the bottom of the stage (left and right)).

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SOUND EQUIPMENT   Sound engineer Franck MINET

Power

! ► Neutral impedance (IT method), so non-zero voltage between the Neutral and the Ground !

General Power	1 breaker	250A/phase	down stage right	enslaved to the SSI
Post general Power / Front stage right :				
1 Power supply (stage left)	2 breakers	125A/phase ajustables	down stage left	(including 1 circuit breaker sound or light)
Post circuit breaker 125A (stage left) :				
1 plug P17 63A tri	1 breaker	63A/phase 0,030A	down stage left	
1 plug P17 32A tri	1 breaker	32A/phase 0,030A	down stage left	
1 plug P17 32A mono	1 breaker	32 A/mono 0,030A	down stage left	
Three-phase supply distributed through a 9 PC 10/16A board	1 breaker	15A/phase 0,030A	down stage left	
Three-phase supply distributed through a 12 PC 10/16A board	1 breaker	40A/phase 0,030A	technical hang stage left	PA FOH
1 plug	1 breaker	32A/mono 0,030A	balcony left	Delayed PA & balcony + FOH

FOH PA System

Multi-point diffusion (all the UPA, sub and infra bass are individually processed and amplified)

Q	Speakers (RMS Power)	Lab Gruppen Amplifiers	Set in the proscenium (parterre/tiers)
8	UPA Amadeus MPB600 (600W)	LB2000 LB1600 E12:2	Down : 2L+2R (on mobile plates, sound wings)* Up : 1L+1R (on yokes) Center : 1L+1R or reversed or mono (on yokes)
2	Sub bass Amadeus MPB1200 (1,2W)	LB2000	Down : 1L+1R (on mobile plates, sound wings)*
2	Infra bass Amadeus MPB1000 (1kW)	LB2000	Down : 2L+2R (on the floor)
			Lateral delayed speakers
4	UPA Amadeus MPB200B (200W)	FP2400Q	Down : 1L+1R (off-centre position, on yokes) Lodges : 1L+1R (sub-piped, on yokes)
			Up-balcony delayed speakers
4	UPA Amadeus MPB600 (600W)	LB1600 LB1600	Gateways (at ⅓ and ⅔): 1L+1R (on yokes) Balcony : 1L+1R (on subs + feet)
2	Sub bass Amadeus MPB1200 (1,2kW)	LB1600	Balcony : 1L+1R (on the floor, under two heads)
			Down-balcony delayed speakers
2	UPA Amadeus MPB600 (600W)	LB1600	Hooked : 1L+1R (on yokes)
8	Compact UPA Amadeus PMX5 (125W) (coaxial)	IP900	Cornice, 1st plan : 4 Mono (on yokes)** Cornice, 2nd plan : 4 Mono (on yokes)

*: Those UPA and Sub bass stay paired while moving the plates, but it can be modified.
**: Those 4 PMX5 can quickly be removed for a Front-Fill use.

Q	Processing/Routing	Channels	Type	Setup/Control
1	APHEX 148	8 in/32 out (AES)	splitter AES/EBU 32 - 192 kHz	hardware
4	XILICA XD-8080	8 in/8 out (ana/AES)	DSP 96 kHz/24 bits (firmware v9.04)	hardware, PC Wifi/Ethernet*
1	Amadeus C22	2 in/4 out	stereo analog active filter (spare)	hardware

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Monitoring

Q	Stage monitors	Type (RMS power)	Equipment
8	Amadeus CX12	coaxial, passive, 12" (350W)	8 integrated stand receptacle + aeroclips + 6 yokes
2	Amadeus UDX12	coaxial, passive, 12" (350W)	2 removable stand receptacle* + 2 yokes
6	Amadeus UDX15	coaxial, passive, 15" (500W)	4 removable stand receptacle* + 4 yokes

*: Those stand receptacles are compatible UDX12/15

Q	Lab Gruppen Amplifiers	Channels	Assignment
3	LB2000	2	1 x 15'' or 1 x 12'' (ou 2 x 15'' ou 2 x 12'' in 4 Ohms mode)
2	LB1600	2	1 x 12'' or 2 x 12''

Q	XILICA Processing	Channels	Type	Setup/Control
2	XP-8080	8 in / 8 out	Audio Digital 24 bit processor 96 kHz (firmware v9.04)	Hardware, PC Wifi/Ethernet**

**: Those 6 DSP Xilica are wired by Ethernet and routed on a Wifi and a RJ45 independent networks. They can be controlled with a tactile PC Wifi/RJ45 (soft Xconsole v9.03) or by their operating panel (non-ergonomic solution).

Accessories :
4 standard HP stands (h: 2m) + 2 small HP stands (h: 1.5m)
2 Manfrotto stands (h: 3.50m) (subjected to availability)
4 on yokes sub-pipe kits from 1m to 8m.
Some shims for the inclination (various angles)
Many Speakon loudspeaker cables (+1/-1) (4 and 2.5mm^2) (0.5/2.5 /5/10/15/20 and 30m) + termination plugs
Adapters and cables for the amplifiers

Mixing

Sound desks and options	Input	Groups/VAC	Bus	Output
Soundcraft Vi1 (v4.8.2.234a) MADI (copper, Ethercon)	32 mono+2 AES+ 1 SPDIF (coax)	8 VCA 8 matrix	64 in 24 out	24 + Master (L/C/R) + Monitor A&B + 2 AES + 1 SPDIF (coax)
Stagebox Vi6 MADI (copper, Ethercon)	64 mono **or** 56 + 4 AES			24 + 4 AES
MADI Network : FOH mixing position > stage right > stage left				10 straps + 2 Ethercon reels (70m)
Wifi router + iPad with Visi Remote (v2.1.4)				
Inverters on Vi1 & Stagebox				
Midas Venice 160	8 mono 4 mono/st	4 groups 2 masters	22 in 12 out	2 Post-f aux + 2 Pre-f aux + 2 pre-f or post-f aux (global); **all are post EQ**

Sources and devices

Q	Marque	Modèle	Type	Divers
1	Tascam	CDU01-PRO	CD-A/MP3 player *	autopause, autocue, remote control, AES out
1	Tascam	CDU01	CD-A/MP3 player *	autopause, autocue, remote control, SPDIF out
1	Sony	MDS-E10	Mini-Disc player/recorder**	autopause, autocue, remote control, SPDIF I/O
1	Aïwa	AD-WX929	Double K7 player/recorder	autoreverse, remote control

Q	Marque	Modèle	Type	Divers
1	Klark Teknik	DN360	Stereo equalizer	
1	BSS	DPR-404	Compressor	4 mono channels **or** 2 stereo channels
1	Lexicon	PCM91	Multi-effect, reverb	AES I/O

*: 2U fly-case
**: 2U fly-case, with Wireless Shure UC receiver

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Microphones, stands and multi-pairs

Q	Brand	Model	Type	Miscellaneous
4	Shure	B58	dynamic, cardio	First version (no 'A')
1	Shure	SM58	dynamic, cardio	With switch
1	Shure	B57A	dynamic, cardio	
1	Sennheiser	MD-441U	dynamic, hyper-cardio	Adjustable high pass filter and brightness filter
4	Crown	PCC160	back-electret, cardio	Pressure zone microphone
4	Neumann	KM184	statique, cardio	2 stereo sets with windscreens
1	Shure	UC / B58A	dynamic, cardio	Wireless receiver/« hand » Mic (9V battery)
1	Shure	ULX-P4		Wireless receiver
1	Shure	B87A	static, hyper-cardio	« Hand » transmitter (9V battery)
1	Shure	ULX1	bodypack	« Pocket » transmitter, TQG plug (9V battery)
1	Shure	WL185		« Lavalier » microphone
1	Shure	WHT30TQG		Black Headset microphone (spare)
1			XLR input adaptor	XLR>TQG for line, standard microphones, etc...

Q	Brand	Model	Type	Miscellaneous
2	BSS	AR133	mono	active DI – box (+48V/9V battery)
2	Behringer	Ultra-DI	mono	active DI – box (+48V/9V battery)
1	Radial	Pro-D2	stereo	passive DI – box
1	LA Audio	DBT+	stereo	balancing box/ passive isolation
2	CRX	OrdiBox	double stereo	passive adaptation box mini jack 3,5mm > XLR
1	CRX	Neutrik	stereo	isolation transformers 600/600 Ohms

Accessories : many clamps, thread adapters, 2 elastic suspension, etc…

Q	Brand	Type	Miscellaneous
1	K&M	big right stand with large round base	black
8	K&M	big stands with telescopic sticks	black
4		big stands with sticks (including 1 telescopic)	chrome
2		big right stands	chrome
3	K&M	small microphone stands with telescopic sticks	black
2	K&M	telescopic table microphone stands	black, « conférence »
6	K&M	damped round floor base	Black, + extension (10cm)
2	Manfrotto	articulated arms with clamps	black, « magic arm »
2	K&M	coupling bars	black

Microphone wiring, adapters and analog snakes

Désignation	Entrées/sorties	Position	Divers
Multi-pair (Snake)	32 in/ 12 out **or** 40 in/ 4 out	Fixed, FOH mixing position > down stage left patch	+ splits 40 channels monitoring (5m)
Multi-pair (Snake)	16 in/ 8 out	Fixed, cabin > down stage right patch	! ► common ground !
Subpatch	12 in (4 out 'Y' from 9 to 12)	Mobile, steel patch	13.50m
Subpatch	12 in (4 out 'Y' from 9 to 12)	Mobile, steel patch	23.50m
Subpatch	8 in (8 out 'Y' from 1 to 8)	Fixed, patch stage left < > patch stage right	Crossing of the stage
Snakes	2, 4 and 8 XLR channels	Mobile	5 / 10 and 20m

Accessories :
Many microphone cables (0.50 / 2.5 / 5 / 10 / 15 / 20 and 30m)
Balanced jack cables, XLR termination plugs, « groundlift », reversers, etc...
Adapters : XLR, jack, mini-jack, RCA, 'Y', inserts, etc...

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Possible sound desk positions

- In the middle of the auditorium
- In the cabin (at the bottom of the balcony)
- In the left balcony, same place than the followspot (only if not used)

In any case, provide technical reserve.

INTERCOM

Clearcom Compatible

1	Wireless/wired Central at the front stage right, 2 channels (only 1 hardwired)	ALTAÏR WBS-202
2	Mobile Wireless «beltpack» type	ALTAÏR 2 channels WBP-202
6	Mobile Wireless «beltpack» type	ALTAÏR 1 channel WBP-200
10	Mobile wired « beltpack » type	ALTAÏR 2 channels EM-202-3P
1	Wired «office» type base (Technical Direction Office)	CLEARCOM KB 212
1	Wired «office» type base (Technical Management Office)	CLEARCOM KB 111A
1	4 bases distributor with call warning light	

Headsets with microphones: 1 or 2 earpieces, required cables for the implementation.

VIDEO

Audio/video control monitors

3	Hangers	(2 audio)
1	Lighting cabin	
1	Stage	No audio)
1	Technical Direction Office	
1	Technical Management Office	

DRESSING ROOMS

2nd floor: WIFI Terminal + fold back monitors from the audience, with a microphone to the front stage right.

1	Equipped main dressing room (makeup corner, seating area, video feedback, individual shower and toilet)	1 person
9	Equipped dressing rooms (sinks, mirrors)	3 to 4 people
1	Equipped common dressing room (sinks, mirrors) (Showers and toilets nearby on the same floor)	50 people

! ► Maximum of 50 people (total) allowed at this floor.

Basement: close to the orchestra pit

2	Equipped common dressing rooms	54 personnes (total)

* **Laundry**: washing machine, dry linen + big stainless steel tray (according to contractual agreement)
* **Iron and ironing board** (according to contractual agreement)
* **Catering** possible in the basement (for electric range), **gas prohibited**
* **Available power supply**: three-phase 220/380 V – 63A on Terminal block or 2 x 3PC 16A + 1 x 2PC 20A + 32A P17 plug phase

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MISCELLANEOUS

Plans on request (Audience, Stage, Hangers, Light channels situation…)

Additional equipment brought must be in perfect working condition, and must be picked up no later than after removal, the evening of the last performance.

Support of additional technical equipment necessary for the installation will depend on the contractual provisions.

! ▸ BUILDING UNDER EFFECTIVE FIRE ALARM: SMOKING BAN

PERSONNEL

For any request for technical staff or technical information, please contact:
Mr Bernard VANALDERWELT / Technical Director ☎: +33 320 24 89 89
Mr Thierry ROCHE / Technical Manager ☎: +33 320 24 85 55

* Available meals for technicians are depending on organizer(s) if their presence is required during service breaks (12:00 PM to 2:00 PM & 6:00 PM to 8:00 PM).

The use of the Colisée Roubaix imposes a minimum internal staff presence, responsible for the good use of the different technical equipment available, according to contractual arrangement, and in compliance with the legislation on working time.

Beyond this minimum staff, the Colisée can provide complementary staff in accordance with contractual provisions.

Staff who would not be put at disposal by the Colisée Roubaix must however be qualified, competent and empowered for the tasks they are assigned.

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