

TECHNICAL RIDER RABOZAAL

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1.Stage

Dimensions

Fixed opening	width	19 m	height	8,75 m
Adjustable proscenium opening	min.	13,6 m	max.	19 m
Adjustable proscenium wall	min.	0 m	max.	8,75 m

Depths

From setting line

Upstage wall	17,24 m
Upstage lighting bridge	16,35 m
Upstage adjustable proscenium opening	-0,64 m
Downstage adjustable proscenium opening	-0,71 m
Upstage of fixed opening	-0,91 m
Adjustable proscenium wall	-1 m
House curtain	-1,2 m
Downstage edge	-1,86 m
Downstage edge proscenium lift 1	-3,4 m
Downstage edge proscenium lift 2	-4,4 m
Downstage edge proscenium lift 3	-5,45 m
Window of control room	-18,24 m

Widths

From setting line

Lighting bridge stage right	12,95 m
Lighting bridge stage left	12,95 m
Wall stage right	13,83 m
Wall stage left	13,83 m

Heights

Stagefloor to flybar	17,9 m
Proscenium lift floor to auditorium flybar	10 m
Lighting bridge stage L/R	8,82 m

Floor

Sprungfloor of Pitch Pine

max. load 580 kg/m²

It is allowed to screw into the floor.

Stage access

Truck lift	length	13,6 m
	max. load	20.000 kg
Stage door opening	width	2,8 m
	height	3,4 m

2. Fly facilities

Fly system

Manufacturer	Trekwerk
Operating system	The New Machine (TNM) 2 mobile control panels
Motor type	Synchrodisk

Max. flybar height	17,9 m
Standard flybar length	23,1 m
Flybar diameter	48,3 mm
Steel cables per flybar	8
Flybar max. speed	1,8 m/s
Point hoist max speed	1,8 m/s
Chain hoist max speed	8 m/min

Distance between steel cables over flybar in cm								
56	314	314	314	314	314	314	314	56
stage left			center			stage right		

Weight distribution

	Amount	Max. load	Point load under cable	Point load between cables
Flybar on stage	79	500 kg	250 kg	250 kg
Flybar house curtain	1	300 kg	150 kg	100 kg
Flybar under portal bridge	2	300 kg	150 kg	100 kg
Side flybars on stage per side	2	500 kg	250 kg	250 kg
Fixed flybar PA	1	n/a	n/a	n/a
Flybars in auditorium	1	1400 kg	250 kg	250 kg
Flybars in auditorium	2	500 kg	250 kg	250 kg
Truss in chain hoists auditorium	2	1000 kg	n/a	n/a
Side flybars in auditorium per side	2	150 kg	150 kg	100 kg
Point hoists	10	250 kg	n/a	n/a
Chain hoists	8	1000 kg	n/a	n/a

3. Miscellaneous

Masking

Amount		Height	Width	Color
16	Legs	9 m	4,3 m	Black velvet
4	Legs	12 m	4,3 m	Black velvet
4	Legs	9 m	1,4 m	Black velvet
2	Legs	12 m	1,4 m	Black velvet
7	Borders	4,5 m	23,1 m	Black velvet
1	Border	6 m	23,4 m	Black velvet
2	Backdrops in two parts (set)	9 m	14 m	Black velvet
2	Full side masking	7 m	15,6 m	Black velvet
1	Cyclorama	10 m	23,4 m	White
1	Sharkstooth scrim	9 m	23,4 m	Black
1	House curtain (guillotine)	Whole height/width opening		Black velvet

Black box masking left/right/upstage on rails.

Flooring

Dance floor/marley	multiple sets that cover stage and proscenium lift	on request
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Stage equipment

Stage deck	2 x 1 m	on request
Stage deck	1 x 1 m	on request
Stage deck	1 x 0,5 m	on request
Stage deck legs	20, 40, 60, 80, 100 cm	on request
Vertical lifts	ALP AWP 12	1
Counterweights	2,5/5 kg	large amount available on request
Music stands	with light	large amount available on request
Orchestra chairs		large amount available on request

Power

125A	1	downstage left and right
	1	upstage left and right
	1	side bridge downstage left
63A	2	center stage left
	2	side bridge left and right
	2	proscenium bridge
	2	in each of the 3 lighting bridges
	1	in each of the 4 auditorium galleries
32A	1	downstage right

Seating

Proscenium lift 1-3	74
FOH pit	12 when not used as FOH pit
Disabled	2 possible instead of 10 seats
total	523

4. Sound

Noise limits

The maximum allowed SPL is an average of 103 dB(A) measured over 15 minutes.

Peak SPL is limited to 140 dB(C).

A measurement microphone is installed at the FOH position and will be running continuously.

PA

All speakers are by D&B Audiotechnik and are powered by 30D, 10D, D6 and D12 amplifiers.

Changes to the system settings are possible in consultation with the house engineer.

Main left/right	AL90	2 per side
Center	AL90	3
Flown SUB array	Y-SUB	mono array of 8
Downfills left/right	Y10P	1 per side
Frontfills	5S	14
Surround left/right sides	E3	7 per side
Surround left/right back	E3	4

Monitoring

D&B MAX15	10
D&B MAX12	8
D&B E3	10

Mixing consoles

We have multiple Yamaha DM and Avid S6L consoles available. Please contact us for availability.

Microphones

Multiple wireless and wired options. Please contact us for availability.

Intercom

Our standard setup uses two (A/B) partylines, different setups are possible by prior arrangement.

Clear-Com FS-II wireless	10
Clear-Com HBP-2X wired	2

Program sound

All dressing rooms, canteens, greenroom and areas around the stage are equipped with volume adjustable speakers.

The announcement microphone is routed to all areas and overrides set volume levels.

Hearing aid system

Sennheiser EW IEM G4 in ear receiver	8
Sennheiser NP 02-100 headphone	8
Stereo induction	8

Frequencies

The following frequencies are in reserved for in house usage.

	Frequency	Type
Nieuwe foyer handheld 1	531.400 MHz	Sennheiser EW-D SMK-S
Nieuwe foyer handheld 2	532.000 MHz	Sennheiser EW-D SMK-S
Nieuwe foyer handheld 3	532.600 MHz	Sennheiser EW-D SMK-S
Pleinoyer handheld 1	533.200 MHz	Sennheiser EW-D SMK-S
Pleinoyer handheld 2	533.800 MHz	Sennheiser EW-D SMK-S
Pleinoyer handheld 3	534.400 MHz	Sennheiser EW-D SMK-S
Koninklijke foyer handheld 1	535.000 MHz	Sennheiser EW-D SMK-S
Koninklijke foyer handheld 2	535.600 MHz	Sennheiser EW-D SMK-S
Koninklijke foyer handheld 3	536.200 MHz	Sennheiser EW-D SMK-S
Ajax foyer handheld 1	536.800 MHz	Sennheiser EW-D SMK-S
Ajax foyer handheld 2	537.400 MHz	Sennheiser EW-D SMK-S
Ajax foyer handheld 3	538.000 MHz	Sennheiser EW-D SMK-S
Bookshop handheld 1	538.600 MHz	Sennheiser EW-D SMK-S
Bookshop handheld 2	539.200 MHz	Sennheiser EW-D SMK-S
Bookshop handheld 3	539.800 MHz	Sennheiser EW-D SMK-S
Bookshop handheld 4	540.400 MHz	Sennheiser EW-D SMK-S
Hearing aid Rabozaal	647.100 MHz	Sennheiser EW IEM G4
Hearing aid Grote Zaal	658.900 MHz	Sennheiser EW IEM G4

For a complete list of (un)usable frequencies please refer to <https://www.microfoonbanden.nl> and use our postal code **1017 PK** as address.

5. Lighting

Fixed lighting positions

Static

3rd lighting bridge

Profile RJ BIZET 12-24°	12
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2nd lighting bridge

Profile RJ BIZET 15-40°	12
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1st lighting bridge

Profile RJ BIZET 15-40°	10
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Moving

3rd lighting bridge

Ayrton Veloce S Profile	4
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2nd lighting bridge

Ayrton Veloce S Profile	6
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Auditorium flybar SR

Ayrton Rivale S Profile	3
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Auditorium flybar SL

Ayrton Rivale S Profile	3
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Lighting inventory

We use a standard inventory of mobile conventional fixtures, divided across two stages. These fixtures are *available upon request*, containing:

Par 64 cp62 medium sixbar	12
Par 64 cp60 very narrow	30
Par 64 cp61 narrow	30
Par 64 cp62 medium	30
Asymmetric flood 1kW	16
Profile 1 kW 15-38°	24
Fresnel 1 kW	24
Fresnel 2 kW	24
Fresnel 5 kW	8
PC 1 kW	24
PC 2 kW	24
Booms containing 4xS4 Zoom 25/50	10

Inventory +

In consultation, our static led/moving light inventory can be used. These fixtures are *available on request* and are subject to additional costs.

Control and infrastructure

The Rabozaal features ETC's Sensor3 Thrupower dimming system combined with a star-to-star lighting network that utilizes ETC components.

To control the network we have a range of ETC Eos consoles available. These consoles are *available on request* and subject to additional costs.

We use sACN as a standard protocol and use the following ip-range:

172.18.80.xxx

The following universes are blocked for in-house usage:

U1 + U100 through U125

6. Video

Cameras

Color and infrared cameras are installed on a fixed position on the control room.
Multiple screens using the color camera feed are installed around the stage.

Projectors

We have multiple projectors and lenses which are *available on request* and subject to additional costs:

Panasonic PT-RZ21K	4
Panasonic PT-DZ21K2	4
Panasonic PT-RZ120	3