

# TECHNICAL RIDER GROTE ZAAL

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# 1. Stage

## Dimensions

|                               |       |         |        |         |
|-------------------------------|-------|---------|--------|---------|
| Fixed opening                 | width | 10,92 m | height | 6,81 m  |
| Adjustable proscenium opening | min.  | 10,10 m | max.   | 13,97 m |
| Proscenium (lighting) bridge  | min.  | 0,60 m  | max.   | 7,40 m  |

## Depths

From setting line

|                                  |          |
|----------------------------------|----------|
| Upstage wall                     | 15,30 m  |
| Upstage lighting bridge          | 14,55 m  |
| Upstage portal bridge            | 0 m      |
| Downstage portal bridge          | -0,99 m  |
| Upstage fixed opening            | -1,86 m  |
| House curtain                    | -1,58 m  |
| Flybar in auditorium             | -3,35 m  |
| Downstage edge                   | -3,91 m  |
| Downstage edge orchestra pit     | -6,63 m  |
| Truss in auditorium              | -10 m    |
| Front of 1 <sup>st</sup> balcony | -18,72 m |
| Backwall auditorium              | -23,33 m |

## Widths

From setting line

|                             |         |
|-----------------------------|---------|
| Lighting bridge stage right | 10,05 m |
| Lighting bridge stage left  | 9,88 m  |
| Wall stage right            | 12,62 m |
| Wall stage left             | 12,62 m |

## Heights

|                                  |         |                         |
|----------------------------------|---------|-------------------------|
| From stage floor to flybar       | 17,9 m  | Relative to raked stage |
| Upstage (back) lighting bridge   | 7,92 m  |                         |
| 1 <sup>st</sup> bridge stage L/R | 7,92 m  |                         |
| 2 <sup>nd</sup> bridge stage L/R | 10,80 m |                         |
| 3 <sup>rd</sup> bridge stage L/R | 16,50 m |                         |
| Auditorium floor front of stage  | -1,05 m |                         |
| Auditorium floor at backwall     | -0,20 m |                         |
| Auditorium ceiling               | 13,80 m |                         |

## Floor

Sprungfloor of keroewing

max. load 500 kg/m<sup>2</sup>

Rake 2,2%

It is allowed to screw into the floor.

## Stage access

|            |             |           |
|------------|-------------|-----------|
| Truck lift | width       | 3,44 m    |
|            | length      | 16,7 m    |
|            | max. height | 4,6 m     |
|            | max. load   | 24.000 kg |

|                    |        |        |
|--------------------|--------|--------|
| Stage door opening | width  | 3 m    |
|                    | height | 2,68 m |

## 2. Fly facilities

### Fly system

|                         |                       |                               |  |
|-------------------------|-----------------------|-------------------------------|--|
| Manufacturer            | Trekwerk              |                               |  |
| Operating system        | The New Machine (TNM) | 2 mobile control panels       |  |
| Motor type              | Synchrodisk           |                               |  |
| Height of lowest flybar | 17,9 m                |                               |  |
| Standard flybar length  | 18 m                  |                               |  |
| Flybar diameter         | 48,3 mm               |                               |  |
| Steels per flybar       | 7                     | center cable 10 cm off center |  |
| Flybar max. speed       | 1,8 m/s               |                               |  |
| Point hoist max speed   | 1,8 m/s               |                               |  |
| Chain hoist speed       | 8 m/min               |                               |  |

| Distance between steels over flybar in cm |     |     |        |     |     |     |             |
|-------------------------------------------|-----|-----|--------|-----|-----|-----|-------------|
| 60                                        | 280 | 280 | 290    | 270 | 280 | 280 | 60          |
| stage left                                |     |     | center |     |     |     | stage right |

### Weight distribution

|                                        | Amount | Max. load | Point load under cable | Point load between cables |
|----------------------------------------|--------|-----------|------------------------|---------------------------|
| Flybar on stage                        | 71     | 500 kg    | 250 kg                 | 250 kg                    |
| Flybar behind house curtain            | 1      | 500 kg    | 250 kg                 | 250 kg                    |
| Flybar under portal bridge             | 1      | 250 kg    | 164 kg                 | 100 kg                    |
| Side flybars on stage per side         | 2      | 500 kg    | 250 kg                 | 250 kg                    |
| Flybars under lighting bridge per side | 2      | 250 kg    | 164 kg                 | 100 kg                    |
| Fixed flybar PA                        | 1      | 500 kg    | n/a                    | n/a                       |
| Flybar proscenium                      | 1      | 1500 kg   | 400 kg                 | 400 kg                    |
| Flybar auditorium                      | 1      | 1400 kg   | 400 kg                 | 300 kg                    |
| Point hoists                           | 12     | 250 kg    | n/a                    | n/a                       |
| Chain hoists                           | 7      | 750 kg    | n/a                    | n/a                       |

### 3. Miscellaneous

#### Masking

| Amount |                                  | Height                     | Width  | Color |
|--------|----------------------------------|----------------------------|--------|-------|
| 14     | Legs                             | 9 m                        | 3 m    | Black |
| 4      | Legs                             | 12 m                       | 3 m    | Black |
| 4      | Legs                             | 9 m                        | 1,5 m  | Black |
| 7      | Borders                          | 4,5 m                      | 18 m   | Black |
| 1      | Backdrop                         | 9 m                        | 18m    | Black |
| 2      | Backdrops                        | 9 m                        | 10,5 m | Black |
| 1      | Cyclorama                        | 10 m                       | 18,5 m | White |
| 1      | Sharkstooth scrim                | 9 m                        | 18 m   | Black |
| 1      | House curtain velour (traveling) | Whole height/width opening |        | Red   |

Black box masking left/right/upstage on rails.

#### Flooring

Dance floor/marley      multiple sets that cover whole stage and orchestra pit      on request

#### 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             | 2                                 |
| 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 center stage left and right on wall (switchable to understage)
- 1 1<sup>st</sup> lighting bridge stage left
  
- 63A 1 understage downstage left and right
- 1 understage upstage center
- 1 1<sup>st</sup> lighting bridge left and right
- 1 loading dock
  
- 32A 1 understage right and left
- 1 3<sup>rd</sup> balcony upper-level
- 1 1<sup>st</sup> balcony center behind seats
- 1 offstage left

| Seating                                           |                 |         |                 |       |
|---------------------------------------------------|-----------------|---------|-----------------|-------|
|                                                   |                 | regular | restricted view | total |
| Stalls                                            | orchestra pit   | 58      |                 | 58    |
|                                                   | stalls          | 260     |                 | 260   |
|                                                   | row 17-18 (FOH) | 20      |                 | 20    |
|                                                   | gallery         | 75      | 30              | 105   |
| 1 <sup>st</sup> balcony                           |                 | 149     | 40              | 189   |
| <i>subtotal stalls and 1<sup>st</sup> balcony</i> |                 | 562     | 70              | 632   |
| 2 <sup>nd</sup> balcony                           |                 | 108     | 36              | 144   |
| 3 <sup>rd</sup> balcony                           |                 | 90      | 24              | 114   |
| <i>total (excluding box seats)</i>                |                 | 760     | 130             | 890   |

## 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 powered by 30D and 5D amplifiers.

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

|                                             |       |                                             |
|---------------------------------------------|-------|---------------------------------------------|
| Groundstack top                             | V7P   | 1 per side                                  |
| Groundstack sub                             | Y-SUB | 2 per side                                  |
| Flown sub                                   | Y-SUB | 1 per side                                  |
| Center                                      | Y8    | array of 8                                  |
| 1 <sup>st</sup> balcony                     | Y7P   | 1 per side flown                            |
| 2 <sup>nd</sup> and 3 <sup>rd</sup> balcony | Y7P   | 1 per side flown                            |
| Under balcony Fills                         | 44s   | 16 distributed around the venue             |
| Frontfills                                  | 4s    | 8 installed in the front of the stage       |
| Surround                                    | 44s   | 8 positions for the stalls                  |
|                                             | 44s   | 8 positions for the 1 <sup>st</sup> balcony |
|                                             | 5U    | 4 positions at 3 <sup>rd</sup> balcony      |
|                                             | 5U    | 2 speakers surround top                     |

### Monitoring

|           |   |                                     |
|-----------|---|-------------------------------------|
| D&B E12   | 2 | 1 per side installed in show portal |
| D&B M6    | 4 |                                     |
| D&B MAX15 | 4 |                                     |
| D&B E3    | 4 |                                     |

More speakers are available, see our venue wide sound inventory list.

### 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

|                                  |    |
|----------------------------------|----|
| Clear-Com FS-II wireless         | 10 |
| Clear-Com Clear-Com HBP-2X wired | 4  |

## 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 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 |
| Pleinfoyer handheld 1        | 533.200 MHz | Sennheiser EW-D SMK-S |
| Pleinfoyer handheld 2        | 533.800 MHz | Sennheiser EW-D SMK-S |
| Pleinfoyer 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**

##### *3<sup>rd</sup> balcony*

Profile 2 kW 8-19° 10

Follow spot 1

##### *Galleries 3<sup>rd</sup> balcony*

Profile 2 kW 8-19° 8

##### *Amphi's 3<sup>rd</sup> balcony*

Profile 2 kW 12-40° 12

##### *Loges 2<sup>nd</sup> balcony per side*

Profile 1 kW 15-38° 4

##### *Portal lighting bridge*

Profile 1 kW 15-38° 9

PC 1 kW 6

##### *Show portal per side*

Profile 1 kW 28-54° 5

##### *1<sup>st</sup> lighting bridge on stage per side*

Profile 2 kW 12-24° 6

#### **Moving**

##### *FOH flybar*

Ayrton Veloce S 5

##### *Loges 2<sup>nd</sup> balcony per side*

Ayrton Rivale S 3

##### *Show portal per side*

Ayrton Stradale S 2

### 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 Grote Zaal features ETC's Sensor3 Thrupower dimming system combined with a star-to-star lighting network that fully utilizes ELC components.

To control the lighting 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 at a fixed position under the 1<sup>st</sup> balcony above the FOH.

Multiple screens using the color camera feed are installed on and 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 |