



# TECHNICAL RIDER SCHOUWBURG

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## 1. CONTACT

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## 2. CHARACTERISTICS OF THE VENUE

### 2.1 SEATING PLAN

Ground floor: 598 seats, of which 90 seats between stalls and pit

Balcony: 238 seats

Wheelchairs: 6 places on the ground floor (row A)

### 2.2 DRESSING ROOMS

There is a total of 11 dressing rooms, divided over 3 floors

All dressing rooms are equipped with a sink, cold and hot water, a lighted mirror and stage monitoring

On the first floor

- Dressing room 1 3 persons, 12m<sup>2</sup>
- Dressing room 2 7 persons, 19m<sup>2</sup>
- Dressing room 3 3 persons, 10m<sup>2</sup>
- Greenroom

On the ground floor (stage level)

- Dressing room 4 2 persons, 7m<sup>2</sup>
- Dressing room 5 1 person, 6m<sup>2</sup>
- Dressing room 6 3 persons, 10m<sup>2</sup>
- Dressing room 7 2 persons, 7m<sup>2</sup>
- Dressing room 8 3 persons, 9m<sup>2</sup>

In the basement

- Dressing room 9 4 persons, 11m<sup>2</sup>
- Dressing room 10 7 persons, 18m<sup>2</sup>
- Dressing room 11 4 persons, 11m<sup>2</sup>

When desired, there is a possibility to arrange one or more classrooms as a dressing room, when not occupied for other purposes.

### 2.3 ACOUSTICS

There is an orchestra chamber available: carts with RPG reflectors which can be placed around an orchestra. This results in a more directional and uniform sound

Reflection panels and diffusion panels are permanently mounted in the auditorium to improve the acoustic characteristics.

### 2.4 LOAD-IN AND LOAD-OUT

There is a loading dock, sheltered from wind and rain. De dock platform is variable in height to match the truck height.

Height of the gate : 3,20m

Width of the gate : 2,85m

Height of the dock platform : 1,10m

Width between the wheel sliders : 2,50m

There is direct access from the loading dock to the stage through a double, acoustic isolated, door. Dimensions of that door is 3,02m height on 2,98m width

### 3. CHARACTERISTICS OF THE STAGE

#### 3.1 DIMENSIONS

- 14m depth on 20m width (wall to wall), stage height: 80cm
- Stage floor is made out of metal frames of 0,5m wide on 2m deep, in which Keruing wood is laid. The stage floor is “floating” and is painted with black Rosco stage paint
- Playable width : 12m
- Playable depth : 12m (with a width of 13 to 10 meters)  
14m (with a width of 9 to 8 meters)  
Note: when playing at 12m width or more, there is no complete masking possible
- Bearing power of the stage : 500kg/m<sup>2</sup>
- Apron: 2,40m deep on 14m wide, extendable by lifting the orchestra pit to stage level
- Rear Stage: 2m deep on 12,75m wide

#### 3.2 FALSE PROSCENIUM

- Width : 8m to 12m
- Height : 5,5m to 7m (movable teaser)

#### 3.3 ORCHESTRA PIT

- The orchestra pit is an arc and is made in 3 parts:
  - 1 central part (2,20m wide on 4,34m deep) which is a hydraulic elevator platform (lifting capacity : 2 tons)
  - 2 outer parts variable in height by a spindle elevation system (lifting capacity : 0 kgs)
- 14m wide on the widest point and 3,34m deep on the deepest point (5,65m depth when used at orchestra pit level)
- 4 height levels : stage level  
ground floor level  
orchestra pit level (2,35m lower than stage level)  
basement level (only the central hydraulic part)

#### 3.4 FLYTOWER

Free height between stage floor and fly bars: 17,36m

Height between stage floor and fly loft: 18,35m

Height between stage floor and roof: 20,50m

#### 3.5 FLYBARS

- 29 fly bars over the stage floor 15 meters long, 50mm diameter, double tube  
22 fly bars with counterweight system  
7 motorised fly bars (6 – 9 – 12 – 17 – 21 – 27 – 33)  
Of which 6, 17, 21 with a variable speed of maximum 0,30m/sec  
Of which 9, 12, 27, 33 with a variable speed of maximum 0,60m/sec  
maximum load : 300kg divided, maximum point load: 80kg underneath the hoist cables
- 4 fly bars over the rear stage 12 meters long, 50mm diameter, double tube  
motorised, 2 fixed speeds  
maximum load : 200kg divided, maximum point load: 80kg underneath the hoist cables
- 2 lateral fly bars 9 meters long, 50mm diameter, double tube  
motorised, 1 fixed speed  
maximum load : 300kg divided, maximum point load: 80kg underneath the hoist cables
- 1 fly bar over the stage edge 11 meters long, 50mm diameter, single tube  
motorised, 1 fixed speed  
maximum load : 300kg divided, maximum point load: 50kg underneath the hoist cables

## LIST OF FLYBARS

Number	Motorised	Default use	Position	Distance to tormentor line (m)	Length (cm)	Maximum load divided (kg)	Maximum point load (kg) underneath hoist cable
-1	✓		Stage edge	-2,40	1100	300	50
1			Stage	1,15	1500	300	80
2			Stage	1,39	1500	300	80
3							
4		Border	Stage	1,85	1500	300	80
5		Legs	Stage	2,05	1500	300	80
6	✓		Stage	2,31	1500	300	80
7			Stage	2,55	1500	300	80
8		Legs	Stage	3,16	1500	300	80
9	✓		Stage	3,46	1500	300	80
10		Border	Stage	3,65	1500	300	80
11			Stage	3,91	1500	300	80
12	✓		Stage	4,15	1500	300	80
13		Legs	Stage	4,40	1500	300	80
14							
15		Border	Stage	4,88	1500	300	80
16			Stage	5,12	1500	300	80
17	✓		Stage	5,37	1500	300	80
18		Legs	Stage	5,61	1500	300	80
19							
20			Stage	6,14	1500	300	80
21	✓		Stage	6,36	1500	300	80
22			Stage	6,63	1500	300	80
23		Legs	Stage	7,28	1500	300	80
24							
25		Border	Stage	7,74	1500	300	80
26			Stage	7,98	1500	300	80
27	✓		Stage	8,23	1500	300	80
28							
29		Cyclo	Stage	8,73	1500	300	80
30							
31		Legs	Stage	9,20	1500	300	80
32							
33	✓		Stage	9,69	1500	300	80
34			Stage	9,93	1500	300	80
35		Black Bdrop	Stage	10,24	1500	300	80
36		White Bdrop	Stage	10,44	1500	300	80
37	✓		Rear Stage	11,36	1200	200	80
38	✓		Rear Stage	11,75	1200	200	80
39	✓		Rear Stage	12,12	1200	200	80
40	✓		Rear Stage	12,53	1200	200	80
Zijtrek	✓		Stage Right	***	900	300	80
Zijtrek	✓		Stage Left	***	900	300	80

### Notes

- The lines marked in grey are empty spaces in the fly bar system. The mounting space is there, but there are no fly bars!
- Default use of the fly bars can always be altered to meet the productions needs

### 3.6 FLY GALLERIES

2 lateral fly galleries over the stage sides, free height underneath is: 7,20m

A number one spot bar, free height underneath is 7,20m (fixed position, can't be moved up or down!)

9 fly galleries over the auditorium, of which number 1, 2, 4 and 5 are equipped with luminaires (see lightplot)

### 3.7 ELECTRICAL SUPPLY

Electrical supplies for sound and lighting are separated

<b>LIGHTING</b>		
2 units stage right	Unit A 400V 3L+N+G	1 x CEE 125A – 6h (red)
		1 x CEE 63A – 6h (red)
		1 x CEE 32A – 6h (red)
		2 x CEE 16A – 6h (red)
	Unit B 400V 3L+N+G	2 x CEE 125A – 6h (red)
		2 x CEE 63A – 6h (red)
		2 x CEE 32A – 6h (red)
		2 x CEE 16A – 6h (red)
<b>SOUND</b>		
1 plug	Stage right OR Stage left 400V 3L+N+G	CEE 63A – 6h (red)
2 plugs	Stage left	240v – shuko 16A
3 plugs	Stage right	240v – shuko 16A

There are also several additional power plugs on stage: 240V – shuko 16A

## 4. TECHNICAL EQUIPMENT

### 4.1 GENERAL

#### 4.1.1 curtains and screens

1 traveling curtain	night blue german opening – mechanical operation (stage left)
14 legs	3m x 9m (w x h) night blue
5 borders	16m x 3m (w x h) night blue
2 backdrops	9,5m x 9m (w x h) night blue
2 backdrops	15m x 9m (w x h) night blue
1 backdrop	15m x 9m (w x h) white
4 sidedrops	5m x 7m (w x h) night blue mounted on a rail underneath the lateral fly galleries, they cannot be used elsewhere!
1 scrim	16m x 9m (w x h) black
1 projection screen	14m x 7m (w x h) white mounted on 2 chain hoists between the number one spot bar and the traveling curtain it cannot be used elsewhere and is not to be manipulated during a show!

#### 4.1.2 marley

Colour :	black or white
Gauge :	1,2mm
Width :	1,6m
Length:	7 lanes of 14,0m 2 lanes of 12,5m 1 piece adapted to the shape of the apron

#### 4.1.3 communication

We have a stage monitoring system with speakers in all dressing rooms, in the greenroom and in the control room

## 4.2 LIGHTING

### 4.2.1 dimmers

256 digital dimmers : ADB Eurodim2      224 x 2,5kW  
18 x 5kW  
14 x non-dim

### 4.2.2 luminaires

#### 0,5kW luminaires

4 P.C. luminaires (ADB C 51) stage

#### 1kW luminaires

57 P.C. luminaires (ADB C 103) 34 mounted in the fly galleries  
12 Profile luminaires (ADB DS 105: 15°-31°) 5 mounted in the fly galleries  
6 Profile luminaires (ADB DSN 105: 11°-23°) 6 mounted in the fly galleries  
6 Profile luminaires (ADB DW 105: 15°-38°) stage  
4 Profile luminaires (ADB DVW 105: 38° - 57°) stage  
12 Fresnel luminaires (ADB F 101) stage  
40 Par 64 luminaires (Thomas) stage  
7 luminaires with symmetrical reflector (ADB LF 1000) stage  
2 luminaires with asymmetrical reflector (ADB LF 1000) stage  
5 Cyclorama luminaires (ADB ACP 1003 H) 5 mounted in fly bar 29  
11 Cyclorama luminaires (ADB ACP 1001) stage  
4 Six-bars with Par 64 luminaires (Thomas) stage  
2 ACL-sets (2 x Fourbar with PAR 64-luminaires) (Thomas) stage  
8 Short-nose Par 64 luminaires stage  
8 Striplights (Showtec) stage  
6 2-light Molefay stage

#### 2kW luminaires

12 P.C. luminaires (ADB C 203) 12 mounted in the fly galleries  
14 Profile luminaires (ADB DN 205 10°-22°) 14 mounted in the fly galleries  
6 Fresnel luminaires (ADB F 201) stage

#### 5kW luminaires

2 Fresnel luminaires (ADB SH-50) stage

### 4.2.3 lighting desks

1 ADB Mentor – 24 subs – 1 playback – 360 channels  
1 Strand 520i – 24 subs – 2 playbacks – 1024 channels

### 4.2.4 connections

Harting Han16 : 8 x 2,5kW

Harting Han6 : 3 x 5kW

Cee 16A-6h blue (for the 2,5kW circuits)

Cee 32A-6h blue (for the 5kW circuits)

ATTENTION!! The Harting Multi connectors are cabled in this way :

1 + 2 = circuit 1  
3 + 4 = circuit 2  
5 + 6 = circuit 3  
7 + 8 = circuit 4  
9 + 10 = circuit 5  
11 + 12 = circuit 6  
13 + 14 = circuit 7  
15 + 16 = circuit 8

#### 4.2.5 colour gels

LEE	010 - medium yellow
Rosco	027 - medium red
Rosco	071 - tokyo blue
LEE	090 - dark yellow green
LEE	101 - yellow
LEE	102 - light amber
LEE	103 - straw
LEE	104 - deep amber
LEE	105 - orange
LEE	106 - primary red
LEE	107 - light rose
LEE	109 - light salmon
LEE	110 - middle rose
LEE	111 - dark pink
LEE	113 - magenta
LEE	115 - peacock blue
LEE	116 - medium blue-green
LEE	117 - steel blue
LEE	118 - light blue
LEE	119 - dark blue
R. supergel	119 - light hamburg frost
LEE	120 - deep blue
LEE	122 - fern green
LEE	124 - dark green

LEE	126 - mauve
Rosco	127 - smokey pink
LEE	128 - bright pink
LEE	132 - medium blue
LEE	134 - golden amber
LEE	135 - deep golden amber
LEE	136 - pale lavender
LEE	137 - special lavender
LEE	138 - pale green
LEE	139 - primary green
LEE	140 - summer blue
LEE	141 - bright blue
LEE	142 - pale violet
LEE	143 - pale navy blue
LEE	147 - apricot
LEE	151 - gold tint
LEE	152 - pale gold
LEE	153 - pale salmon
LEE	156 - chocolate
LEE	157 - pink
LEE	158 - deep orange
LEE	161 - slate blue
LEE	164 - flame red
LEE	166 - pale red

LEE	170 - deep lavender
LEE	174 - dark steel blue
LEE	179 - chrome orange
LEE	180 - dark lavender
LEE	181 - congo blue
LEE	182 - light red
LEE	195 - zenith blue
LEE	196 - true blue
Rosco	197 - Alice blue
LEE	200 - double CT blue
LEE	201 - full CT blue
LEE	202 - 1/2 CT blue
LEE	203 - 1/4 CT blue
LEE	204 - full CT orange
LEE	205 - 1/2 CT orange
LEE	206 - 1/4 CT orange
LEE	219 - lee fluorescent green
LEE	241 - lee fluorescent 5700K
LEE	242 - lee fluorescent 4300K
LEE	243 - lee fluorescent 3600K
LEE	251 - 1/4 white diffusion
LEE	253 - hampshire frost
LEE	254 - new hampshire frost

#### 4.2.6 miscellaneous

1 person elevator ALP DHCPI-90  
 Working height : 8,50m  
 Maximum load : 120kg max  
 Person elevator with battery

There are several ladders available



## 4.3 SOUND

### 4.3.1 mixing desks

1 Midas Venice 320  
1 Yamaha LS9-32

### 4.3.2 speakers and amplifiers

Amplifier rack : Crest 5850 + Meyer Sound processors for MSL-2A en UPA-1C  
Powersoft Q 3002 R, Powersoft Q 4002 R, Powersoft Q 4004 R for Delays and Frontfills  
Powersoft K 6 for Subs  
PMM Nion 6 digital matrixprocessor for Delays, Frontfills & Subs  
PMM Cab 16 O Extension Units / 16 outputs  
HP 2524 Ethernet Switch 24 ports  
Wireless Router

Speakers :

Ground floor FOH : Meyer Sound MSL-2A Full Range (1x 15" + 1 x 2") rigged, 2 per side  
Renkus-Heinz DRS 18-2B Sub (2 x 18") on stage floor, 1 per side  
Meyer Sound UPA-1C (1 x 12" + 1 x 1") 4 rigged in centre cluster

Ground floor Frontfill : Renkus-Heinz TRX 61 (1 x 6" + 1 x 1") 4 spread over the stage width

Delay underneath side balcony : Renkus-Heinz SGX 41 (1 x 4" + 1 x 1") 1 per side

Delay underneath rear balcony : Renkus-Heinz SGX 41 (1 x 4" + 1 x 1") 8 spread over the width of the rear balcony

Delay for side balconies 1 en 2 : Renkus-Heinz SGX 41 (1 x 4" + 1 x 1") 1 per side, per balcony

Delay for side balconies 3, 4 en 5 : Renkus-Heinz PNX 121/6A (1 x 12" + 1 x 1") 1 per side, in the auditorium fly galleries

Delay for rear balcony Renkus-Heinz PNX 121/6A (1 x 12" + 1 x 1") 2 per side (L/R) in cluster, in the fly galleries  
Renkus-Heinz TRX 81 (1 x 8" + 1 x 1") 8 spread over the width of the rear balcony, in the fly galleries

### 4.3.3 outboard in 19" Rack

Racklight: Furman PL-8C E  
Effects processor: Yamaha SPX 2000  
Effects processor: Lexicon LXP 15  
4 x stereo compressor/limiter/gate: DBX 166A  
Stereo equaliser : Klark Teknik DN 360  
MD-player-recorder : Sony MDS E52  
CD-recorder : Tascam DCRW-750

Racklight: Furman PL-8C E  
2 x CD-player : Tascam CD-01U  
Stereo equaliser : DBX 2233

### 4.3.4 connections

Fixed System : 34 in and 12 out  
2 stage blocks (1 stage left and 1 stage right)

#### 4.3.5 microphone areas

In order to improve audibility of non-amplified spoken word in the acoustically difficult areas in the venue, there are a number of microphones mounted

These can be switched on in different areas, depending on where the reinforcement is needed

Front stage:        4 Audio Technica AT 4071 A shotgunmicrophones, mounted near the MSL-speakers  
                         4 Audio Technica U 851 R Cardioide Boundary PCC microphones on the stage edge

Stage area 1:      3 Audio Technica ES 933 H Hypercardioid microphones rigged in the stage attic

Stage area 2:      2 Audio Technica ES 933 H Hypercardioid microphones rigged in the stage attic

Stage area 3:      3 Audio Technica ES 933 H Hypercardioid microphones rigged in the stage attic

#### 4.3.6 Control over delays, frontfills en microphone areas

The control of delay and frontfill speakers and switching on/off the microphone areas can be done by the touch PC on stage left or by using our laptop from anywhere in the venue over the wireless sound control network

#### 4.4 VIDEO

The Schouwburg has 2 projectors

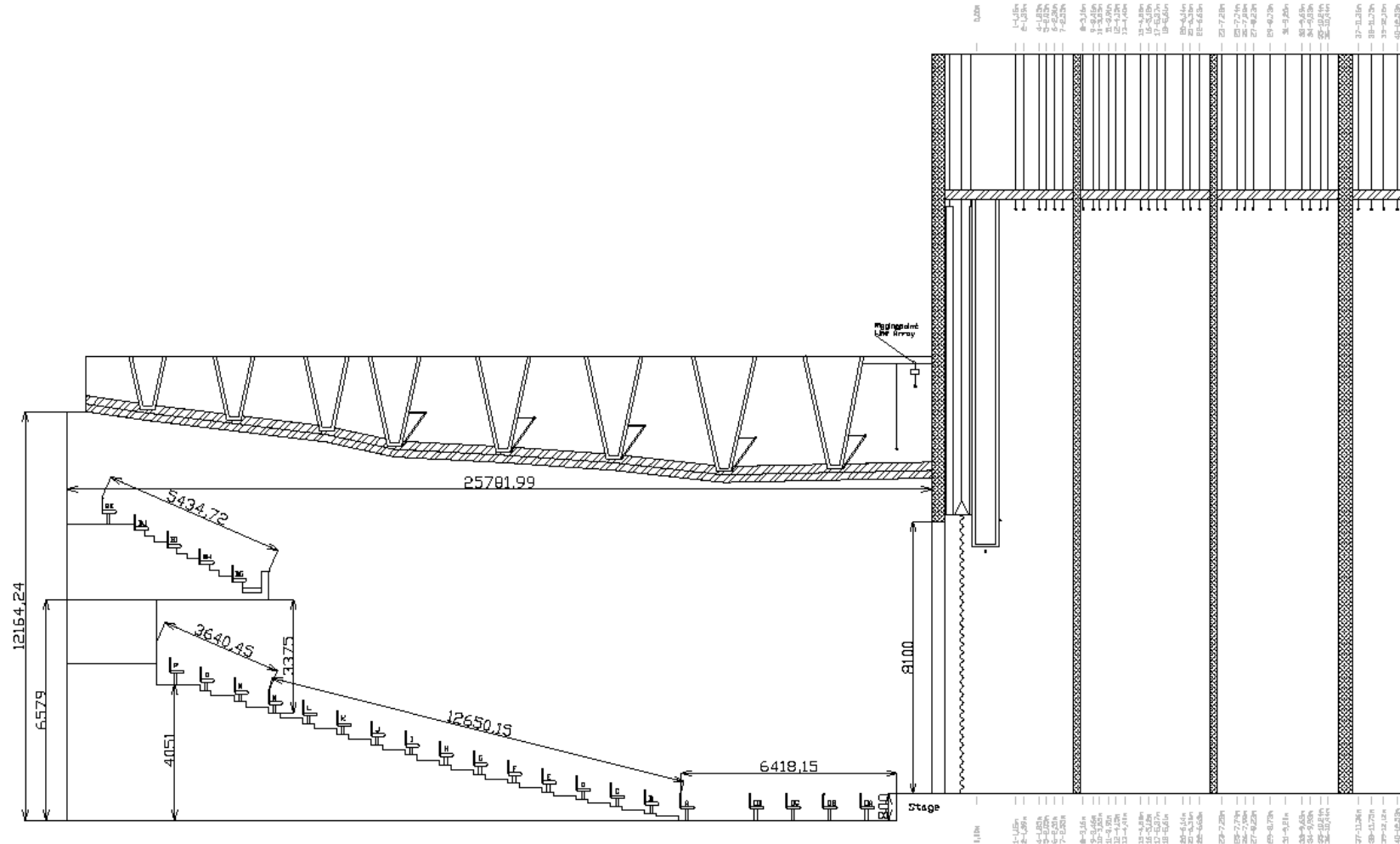
- Barco RLM-W8 Omri (DLP projector, 8000 ansi-lumen)
- NEC NP-3150 (LCD projector, 5000 ansi-lumen)

There is a coaxial multicable (5x coax) as well as an ethernet cable between the control room and the stage (stage left) and between the control room and the technical seats in the venue

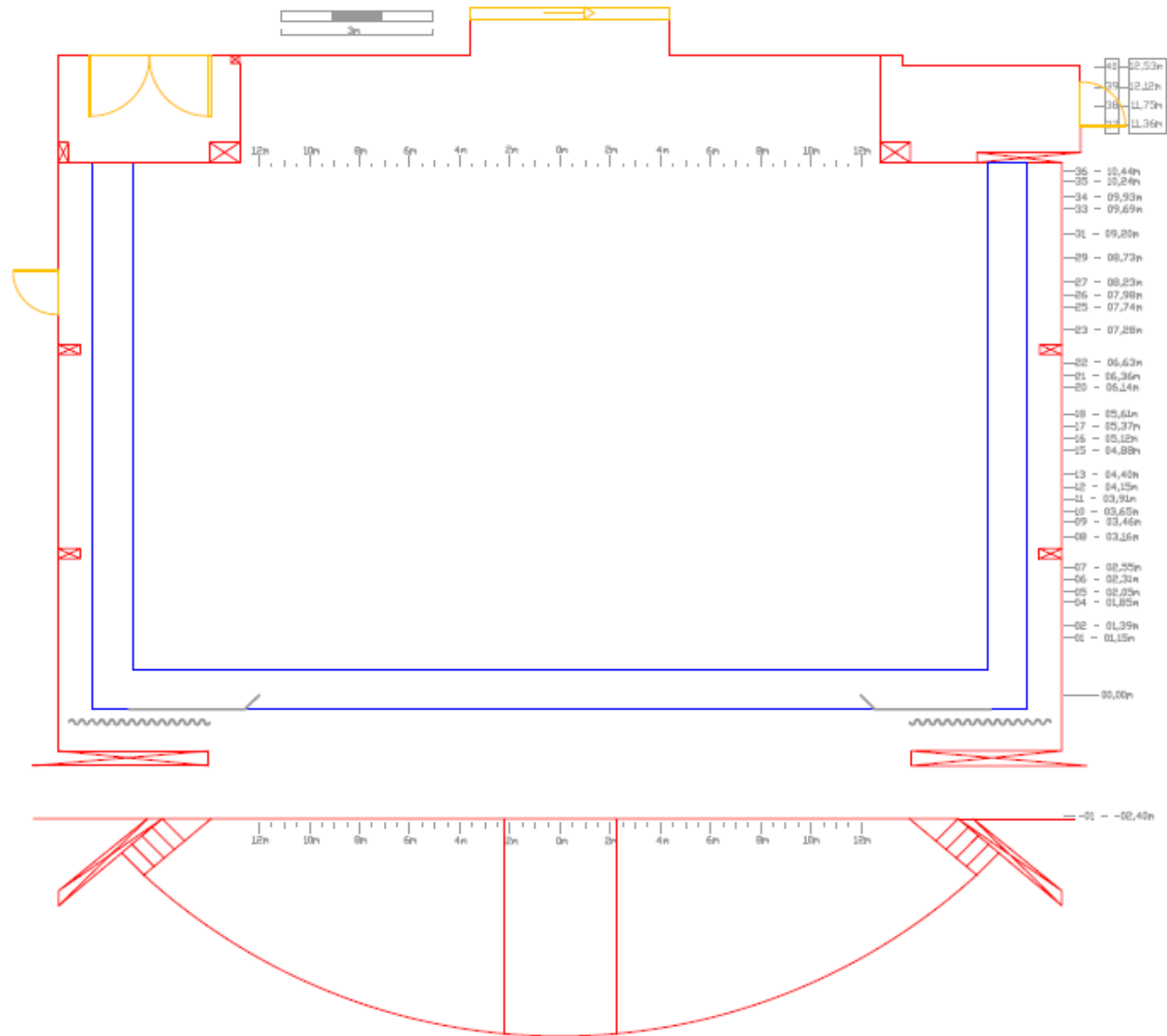
There are adaptors 5x coax to VGA available as well as an active adaptor Ethernet to VGA

# 5. PLANS

## 5.1 SECTION



## 5.2 STAGE



### 5.3 LIGHTING

