THE DANISH ROYAL THEATRE

General Information & Technical Specifications

THE OPERA HOUSE

Main Stage & Takkeloftet

DET KGL·TEATER

CONTENT

WELCOME TO THE OPERA HOUSE

The Opera House was inaugurated in 2005 donated by the AP Møller and Chastine Mc-Kinney Møller Foundation, and designed by architect Henning Larsen. At the Opera House we have two stages: The Main Stage and "Takkeloftet".
This document contains general information about the venue, and has technical specifications described separately for each of the two stages.

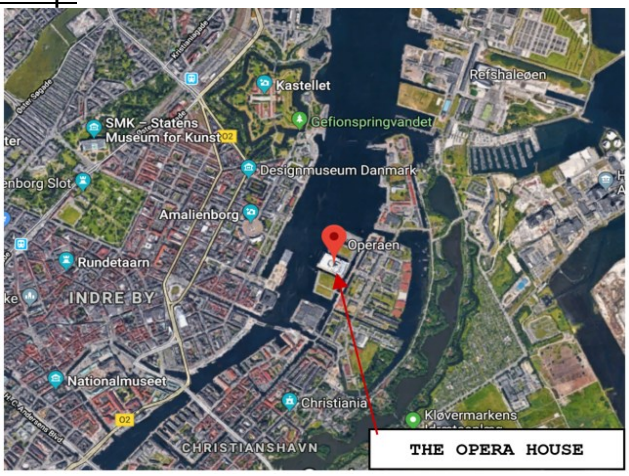
We hope you will take the time to read the following pages, as they should provide you with answers to the most common questions prior your performance at The Opera House. The information in this document are guidelines and everything is subject to change and our in-house productions. We encourage all our guests to have a close dialogue with over technical staff before and during your stay.

We look forward to hosting you, and hope you will have a pleasant stay.

Address

The Royal Danish Opera
Ekvipagemestervej 10
1458 Copenhagen K

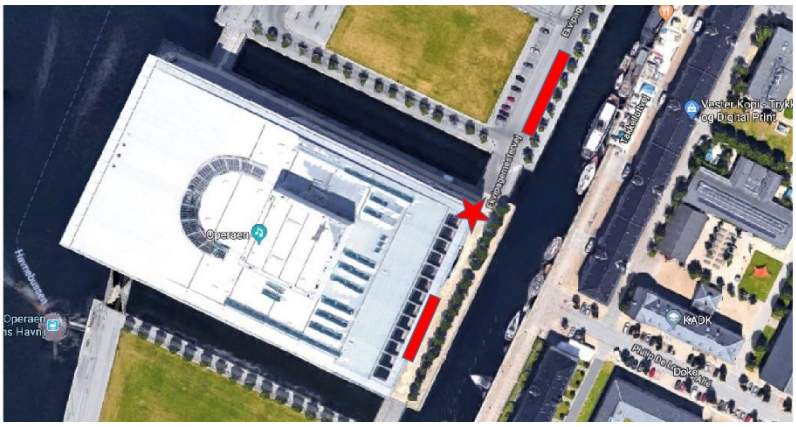
Map



GENERAL INFORMATION

Parking & Load in

Please note that parking is very limited at The Opera House.
It is possible to park 3 trucks/busses. 2 on the eastern side and 1 in loading dock. 32 amp power is available.



The loading bay is located at the north-eastern corner of The Opera House. The loading dock is upstage from the main stage. Two trucks can be loaded simultaneously.

The sets are loaded/unloaded on the loading ramp behind the stage.
Loading/unloading assistance is available from the crane ranging from the loading ramp to the storage for wood/metal. Max. load per crane is 500 kg.

Entrance (crew)

The crew entrance ("Sceneindgang") is situated at the south-eastern corner of the building. There you will meet our friendly security staff. It is important that you send a guest list in advance of your arrival to your contact person.

Backstage area & dressing rooms

For Main Stage, the most dressing rooms are located on the third floor and most of them accommodates up to 3 people (a few accommodates from 6 to 9 people). All have private baths and toilets.
For Takkeloftet there are few dressing rooms nearby backstage, please check for availability.

Catering

The venue is difficult for touring catering, but has a very good in-house cater.

Smoking

National law prohibits smoking in public areas, including performance and backstage facilities. A dedicated smoking area will be available inside the venue.

Foyer

Merchandise set-up is possible

Internet

Free Wi-Fi: KGLSPOT. No password needed.

Crew (In-house)

The required in-house crew varies from production to production, and is coordinated with the stage management accordingly.
Please note: Rigging crew is not included and work after 23.00 is overtime.

Rehearsal studios

The theatre has several rehearsal studios.
Please contact us to check for availability.

TECHNICAL SPECIFICATIONS: MAIN STAGE

Seating capacity

Main stage has a total capacity of 1710, including 56 standing.
Possible to fit 4 wheelchairs.
The lighting desk is normally placed on row 18 on the parquet (seats need to be removed).

See appendix #1 for seating plan.

Stage dimensions

Depth max: 23 m.
Width max: 29.1 m. (Please pay attention to the proscenium width, see below) .
Height: 29.5 m. (stage tower height).

See appendix #2 for scene plan.

Stage, rear and side stages and Rehearsal stage 1 are situated on the same level. Movable stage wagons with set pieces can transported between them. The sets are assembled on the fit-up stage and they are taken from here to the stage areas on the stage wagons.
Cloths are hung on the stage and are kept either in the fly tower or in the cloth storage elevator situated at the back of the stage.
Use depends on availability, please contact Head of Stage.

The stage is constructed by four movable stage wagons of 16.0 x 4.0 m., which are used to take set pieces to and from rear and side stages. In addition, there is a 2 m. wagon normally situated in the stage front edge outside elevator 1.

Proscenium opening

Height: 8-12.0 m.

Width: 12.5-15.85 m.

If a proscenium opening of more than 16 m. on the architectural proscenium is wanted, it must be coordinated with the Head of Stage.

Revolving stage

Use of the revolving stage for external productions are very limited. Please check availability with the Head of Stage.

Ask the Head of Stage about the maximum load of the revolving stage, as it is not the same all over the wagon.

Speed measured at the edge 1 m/s.

Position accuracy ± 1.3 mm.

Repetition accuracy ±1.3 mm.

Diameter 15 m.

Traps

There are 44 possible positions and 4 trap lifts.

The traps are distributed on four rows with 11 in each,.

The traps can be combined with one or two others. Sliding traps can be installed.

A sliding trap (there are four of them) takes up three normal traps.

Width 1.0 m.

Depth 1.0 m.

Max. load: (dynamic) 250 kg./(static) 600 kg.

Stage elevators

There are four elevators consisting of a main elevator, which can go from -5.0 m. to +5.0 m., and a secondary one, which can go from -5 m. below the main elevator to -2.1 m.

The main and secondary elevators can go in both directions at the same time.

The elevators can either go separately or max. four at the same time. This is computer controlled.

The stage elevators measure 16 m. x 4 m.

Orchestra pit / apron stage (raised orchestra pit)

The orchestra pit is divided into two sections, which can be raised or lowered separately or together from -1.0 m. to +1.0 m.

The first part of the orchestra pit can be raised to the level of the stage. Below the forestage, chairs are stored which can be installed in parts or in the entire pit.

Flying system

Approximately 100 m. with 20 cm. space between them.
Potentially 24 rig points, 500 kg evenly distributed.
Bars = 800 kg. with a max. point load on 250 kg.

Electric fly bars

86 curtain bars of 22 m. length with 0.2 m. between the bars and 24 point hoists. All bars are operated from a control panel on the gallery or on the stage. All bars can be used as flying or gliding rails.

Vacant bars are subject to availability and in-house productions.

Please note: All fly bars are alu-profiles and designed for our daily repertoire. Often, it is not possible for guest productions to hang lamps and curtains directly on the bars, so it is necessary to rig an extra bar under the existing bar.

Cross bars

Lifting height 0.5-29.5 m. Maximum load per bar, evenly distributed: 800 kg.
Speed at 800 kg.: 1.2 m/sec.
Speed at 400 kg.: 1.8 m/sec.

Side bars

Apart from the 86 cross bars, there are 2 side bars on each side of the stage. Lifting height 0.5-29.5 m.
Maximum load per bar (evenly distributed): 800 kg.
Speed at 800 kg. 1.2 m/sec.
Speed at 400 kg. 1.8 m/sec.

Point hoists

All point hoists are operated from the control panel and can be synchronized.
24 point hoists distributed with three ones for every 2 m. above the wagons.
Maximum load: 500 kg.
Speed at 500 kg 0.9 m/sec.
Speed at 250 kg 1.8 m/sec.
Max. lifting height: 55 m.
Information about the maximum load when several point hoists are running together, can be obtained from the head of stage.

Masking

Black backdrop
5 legs and 5 soffits / 5 sets of masking
PVC canvas – ask for availability
Red front curtain.
Black curtain as front curtain.

Fire curtain

Fire curtain line is to remain cleared from any solid objects (risers, keyboards etc.), but cabling can run across.

Risers/platforms

Platforms 2 x 1 m., different heights are available.
Please contact Head of Stage to check for availability.

LIGHTING

See appendix #3 for the standard lighting plot.

Light desk is possible to place on row 18 in the parquet (seats will be removed).

Follow spot: RJ Cyrano 2,g kW HMI.

See appendix #5 for power specifications.

No lights will be removed or taken down for external shows.

SOUND

Sound equipment

The control room, from where the sound is controlled for the auditorium and stage room of the main stage, is a closed room situated at the back of the balcony.
If you need to listen to the real acoustics, a big pane of glass (1.1 m. x 3,6 m.) can be moved down to a height of 0.5 cm, and the mixer can then be moved appr. 0,6 m. forward.
On special occasions the mixer can be moved and work from the floor at the back of the auditorium.

The mixer is a "Studer Vista 8" with 120 analogue inputs and 48 analogue outputs, as well as 16 digital inputs and 32 digital outputs.

The loudspeaker system of the auditorium

Centre Cluster.
L'acoustics ARC's, the cluster is moved down to the required height electrically. 5 units.

L. + R.:
L'acoustics MTD112XT in each side, fitted hidden in 4 levels in the architectural proscenium. 4 units

Front Fill:
L'acoustics MTD108a, fitted hidden in the edge of the forestage. 5 units

Sub:
L'acoustics SB218, hidden in the middle above the proscenium. 2 units

Delay and Surround: Below all balconies Delay systems are placed, and on all balconies there are loudspeaker panels that can function as "Surround".

The entire system is distributed and controlled by BSS SoundWeb, so it functions as one unit.

Multieffect
TC 4000
TC 5000

Stage monitors

Various fixed loudspeakers cover the stage area.
MTD108a, on the inner side of the technical proscenium, 2 units.
MTD115XT in the middle above the proscenium ("Movinglight bridge"), 1 unit.
MTD115XT, three on each side of the side stage, 6 units.
Various loose "self-powered" (Axys U12/U14) or passive loudspeakers TOA F-160WP/100V. Are installed as required.

Performance equipment

Denon DN990R, MD (also recorder) 2 units
Denon DN C635, CD player 2 units
SFX - 8 channels harddisk running system
Watchout Video

PA-system

LR proscenium 6 x L'acoustic 112xt,
Front fills 6 x L'acoustic 108,
Center cluster 5 x L'acoustic arcs,
Subs 2 x l'acoustic 218.
Surround ht in 5 zones on all balconies.
Surround technical bar 4 x l'acoustic 112b.

Please note: PA-system is not for Rock'n'Roll

TECHNICAL SPECIFICATIONS: TAKKELOFTET

Seating capacity

"Takkeloftet" is designed as a black box theatre.
Currently it has an audience structure with a total capacity of 180 seats.
The seats are distributed in one category.

Stage dimensions

The room is 18 m. long and 16 m. wide.
With the current audience structure the stage dimensions are:
10 m. between the balconies.
12 m. from front row to back wall.
6.9 m. height from floor to grid.
4.65 under the balcony.

See appendix #4 for scene plan.

Flying system

7 bars distributed over the stage.
Max. load pr. Bar is 400 kg. (max 120 kg. in one spot).

18 point hoists distributed over the stage.
Max. load is 250 kg. each.

Masking

1 split backdrop, 6x7 m.
1 7x10 m. PVC to projection from front.
1 7x10 m. PVC to projection from behind.
10 legs to under the balcony 4.3 x 2 m.
3 10x2 m. soffits.

Lighting

12 Fresnels 1,2kW.

12 Robert Juliat profiles as high side shot

6 Robert Juliat profiles as front.

7 ETC Source4 as low front.

1 MA1 fullsize operator desk.

8 booms on the side with 2 x ETC source4 + 2 x Par64

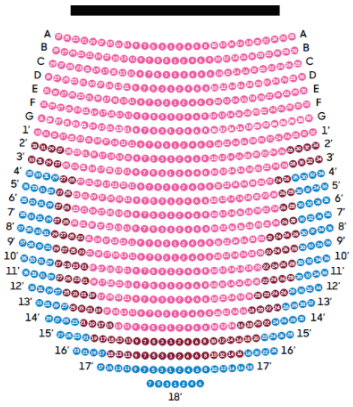
Sound

6 L'acoustics 108M

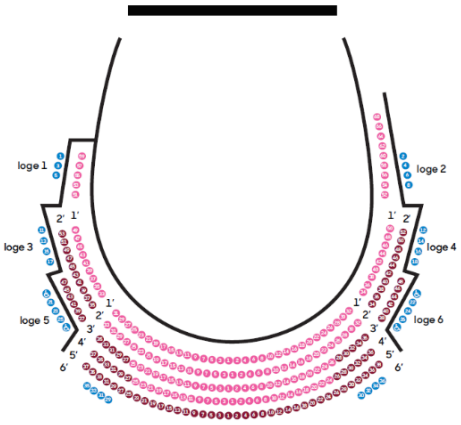
1 Yamaha DM1000 pult

APPENDIX #1: SEATING PLAN, MAIN STAGE

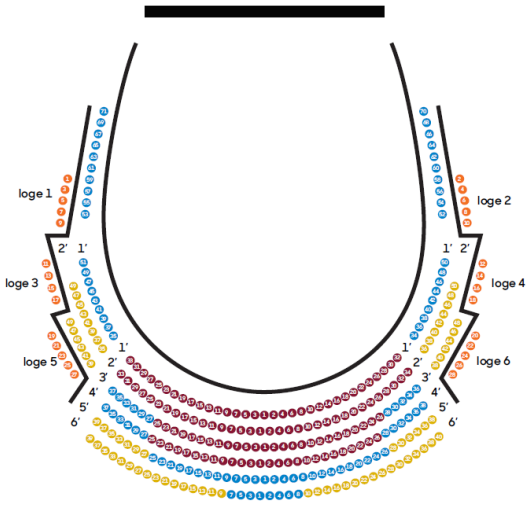
Operaen, Store scene
Parket



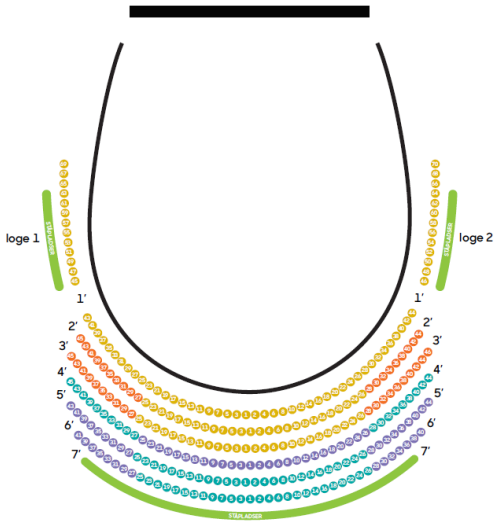
Operaen, Store scene
1. Balkon



Operaen, Store scene
2. Balkon

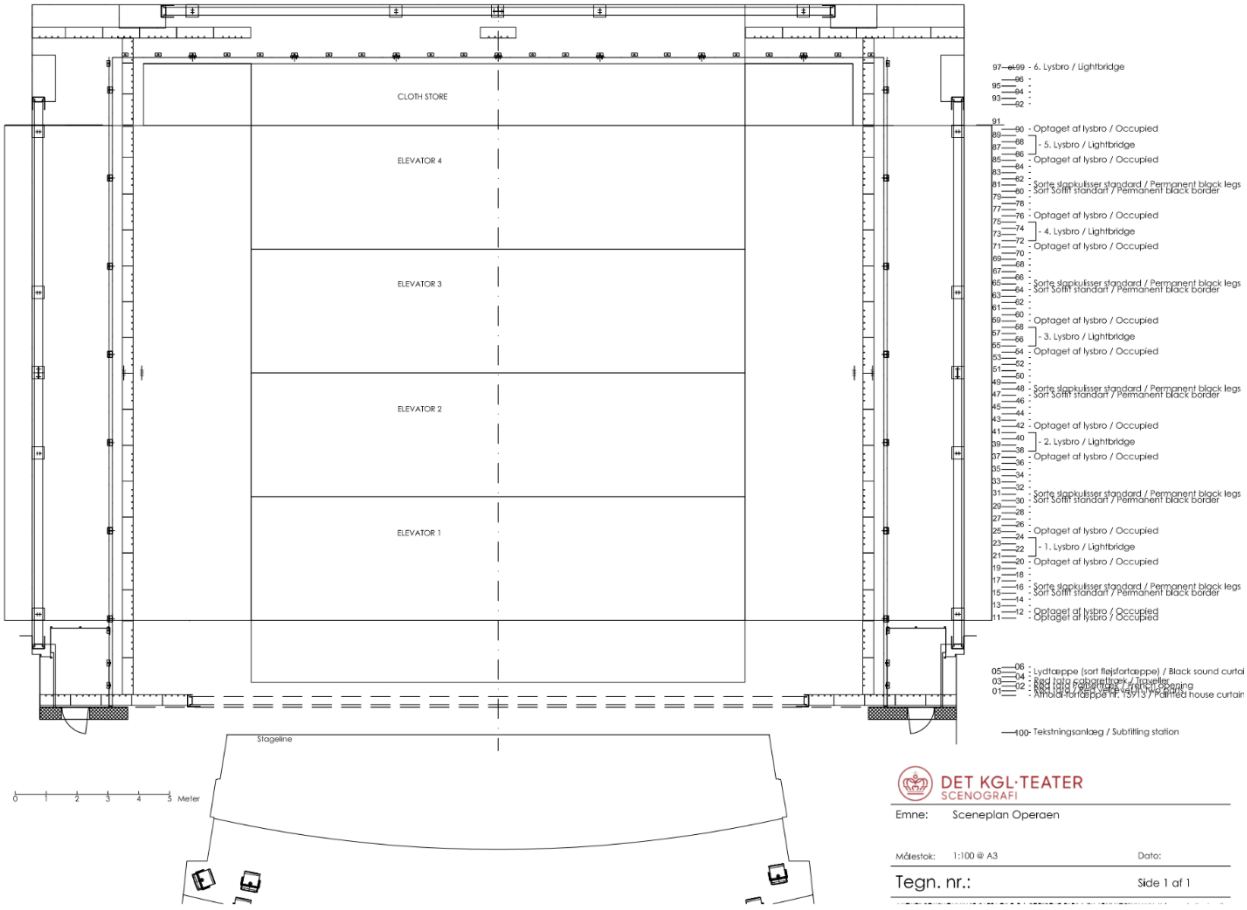


Operaen, Store scene
3. Balkon



For PDF-file please visit: https://kglteater.dk/brug-teatret/i-teatret/salsplaner/

APPENDIX #2: SCENE PLAN, MAIN STAGE

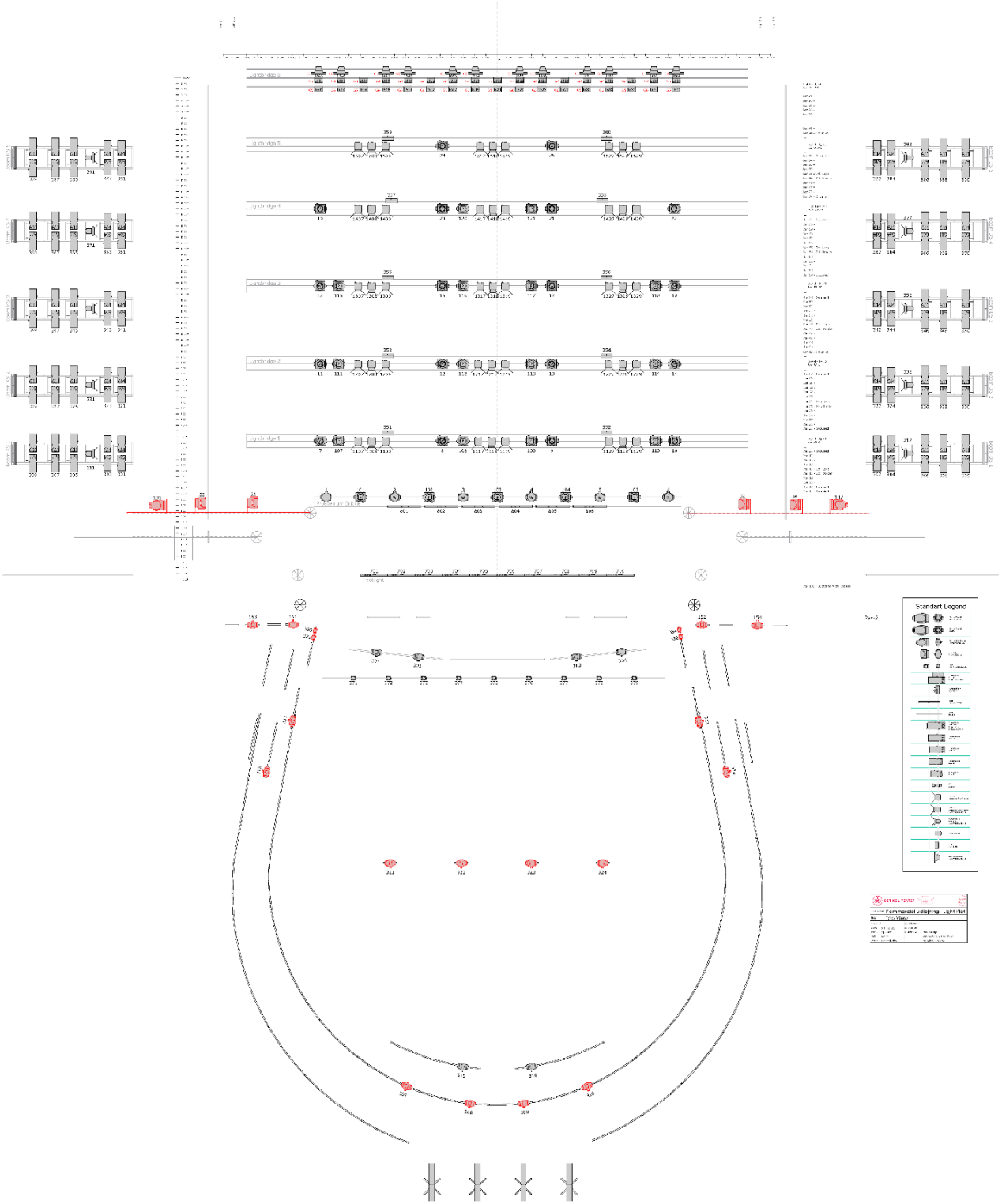


Please acquire the original PDF-file from your contact person if needed.

The PDF is created in 1:100 printed on A3.

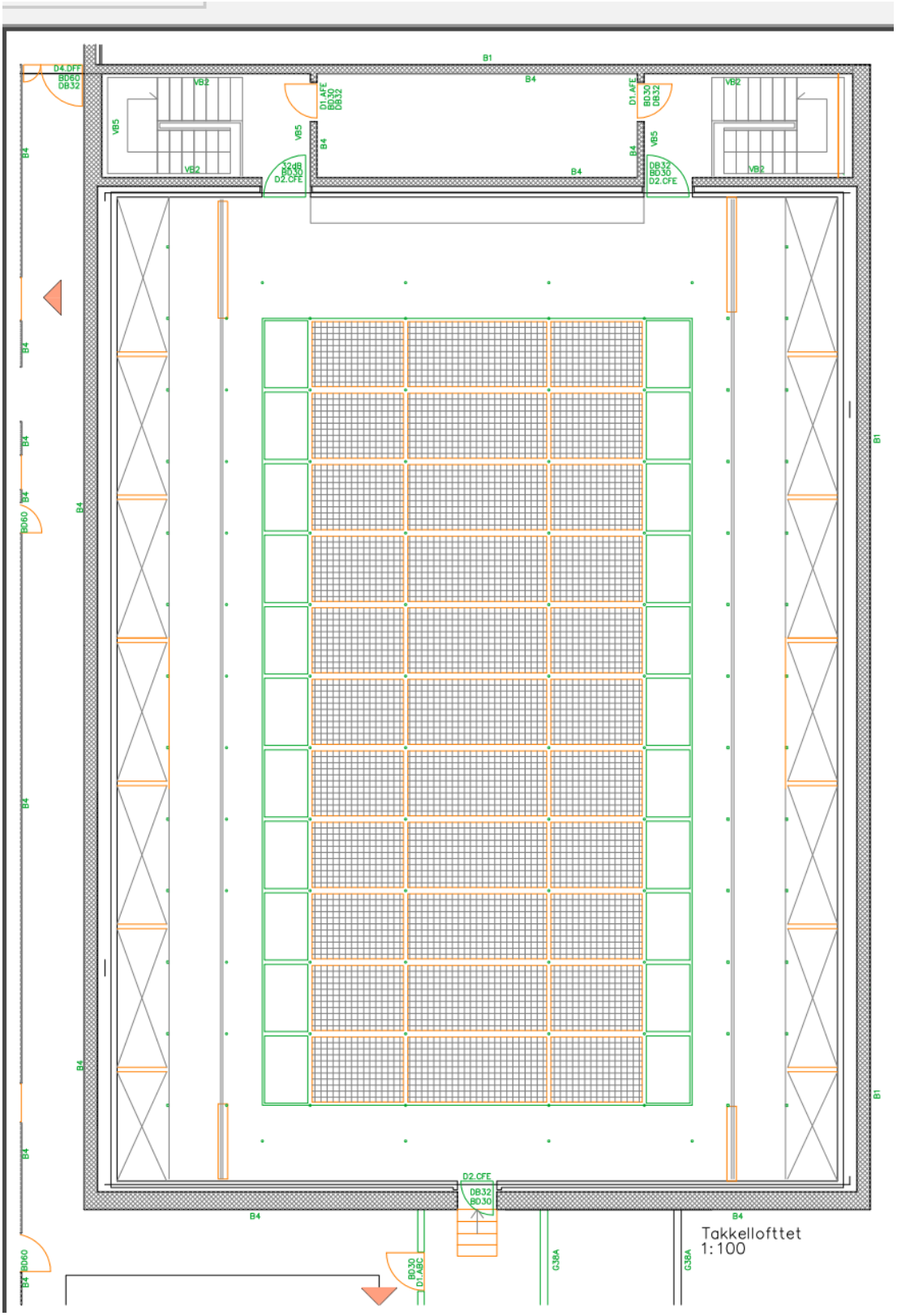
Additional blue prints are available if needed.

APPENDIX #3: STANDARD LIGHTING PLOT, MAIN STAGE

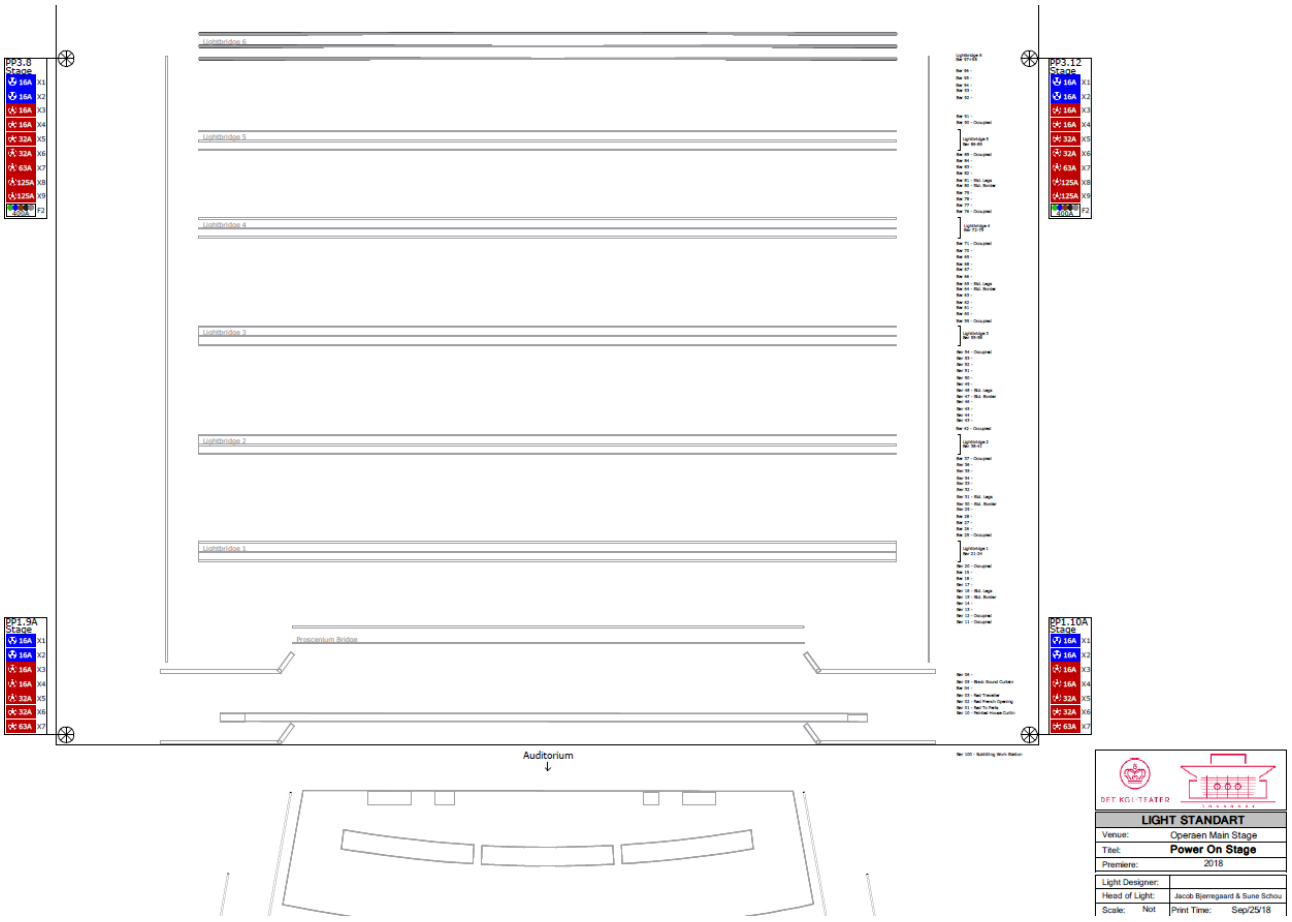


Please acquire the original PDF-file from your contact person if needed.

APPENDIX #4: SCENE PLAN, TAKKELOFTET



APPENDIX #5: POWER



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