

# K3NC2R1 HUS4T

DR





## Intro

**Koncerthuset is music. It is sublime architecture, created by one of the worlds most innovative architects and most experienced acousticians.**

**The most important task of Koncerthuset is to provide audiences - Danish and International - with outstanding encounters of live music, in which not only the music itself but also the overall experience is unique and top-notch.**

On the same time, Koncerthuset is an integrated part of DR - Danish Broadcasting Corporation - the oldest and largest media enterprise in Denmark. The combination of a multimedia corporation and some of the best concert and recording facilities existing, creates a world of new possibilities.

In DR the ambition is always set high, no matter if the aim is to produce ground breaking news, or to give everybody who loves music, a musical experience of the highest possible standard. Koncerthuset revives this ambition.



**“ARCHITECTURE  
IS LIKE MUSIC,  
DESIGNED TO  
MOVE OUR  
SENSES &  
GIVE US  
JOY”**

**Jean Nouvel**





**“THE 1,800-SEAT  
CONCERT HALL(...) IS SURELY THE  
MOST LUSCIOUSLY  
ATMOSPHERIC  
AUDITORIUM IN  
THE WORLD”**

**The Independent**







# DR Byen/DR City

**DR – an abbreviation of Danmarks Radio** (the Danish Broadcasting Corporation) – is Denmark's oldest electronic media corporations. DR was founded in 1925 as a public service organization. Today DR is still an independent, licence-funded public-service station that delivers content to all Danes on radio, TV and the Internet, as well as a wide range of musical experiences via DR's four orchestras and six choirs. Koncerthuset will also be offering unique musical experiences that extend beyond DR's own ensembles.

DR has earlier been spread out over several addresses in Copenhagen, but in 2000 it was decided to gather all DR's activities in DR Byen in Ørestad, a new district of Copenhagen.

DR Byen consists of four buildings, each with its own character, designed within the framework of an overall plan. Four separate architectural competitions were held – one for each segment. The four buildings are linked together by Indre Gade ('Inner Street'), a glass-covered thoroughfare at second-floor level.

SEGMENT 1	SEGMENT 2	SEGMENT 3	KONCERTHUSET (SEGMENT 4)	INDRE GADE/ INNER STREET
<p><b>Architect:</b> Vilhelm Lauritzen AS</p> <p><b>Architectural competition:</b> October 2000 <b>Length/width/height of building:</b> 108/102/28 metres <b>Number of floors:</b> 7 <b>Number of rooms:</b> c. 385 <b>Area:</b> c. 51,000 m<sup>2</sup> (incl. basement)</p> <p>Segment 1, with its c. 51,000 m<sup>2</sup>, is DR Byen's largest segment. Among other things it is the physical setting for DR's TV productions.</p>	<p><b>Architect:</b> DISSING+WEITLING</p> <p><b>Architectural competition:</b> September 2002 <b>Length/width/height of building:</b> 108/57/28 metres <b>Number of floors:</b> 7 <b>Number of rooms:</b> 391 <b>Area:</b> c. 32,000 m<sup>2</sup> (incl. basement)</p> <p>Segment 2 is among other things the centre for daily sports and news programmes, which are broadcasted from both the large circular newsroom of the building and the TV studio.</p>	<p><b>Architect:</b> Gottlieb &amp; Paludan + NOBEL architects a/s</p> <p><b>Architectural competition:</b> March 2003</p> <p><b>Length/width/height of building:</b> 60/60/28 metres <b>Number of floors:</b> 7 <b>Number of rooms:</b> c. 80 <b>Area:</b> c. 17,000 m<sup>2</sup> (incl. basement)</p> <p>Segment 3 is DR Byen smallest segment. Out towards the north and west facades there are garden rooms where the vegetation and temperature follow the course of the year and form a logical, integral part of the building's climate and environment strategy.</p>	<p><b>Architect:</b> Atelier Jean Nouvel Nagata Acoustics</p> <p><b>Architectural competition:</b> March 2002</p> <p><b>Length/width/height of building:</b> 96/60/48</p> <p><b>Number of floors:</b> 11 <b>Number of rooms:</b> apx. 200 <b>Area:</b> 26.000 m<sup>2</sup></p> <p>Including 4 Concert Halls/ production studios and a 3000 m<sup>2</sup> large public foyer. The home of apx. 250 fulltime musicians/singers and apx. 150 employees, all involved in music production, including music library, CD/ vinyl library and all ensemble administrations.</p>	<p><b>Architect:</b> Vilhelm Lauritzen AS <b>Architectural competition:</b> October 2000 <b>Length/width/height of street:</b> 180/11.5/18 metres <b>Area:</b> c. 5000 m<sup>2</sup> (incl. basement)</p> <p>DR Byen's four segments are linked by Indre Gade ('Inner Street'). The street, which is at second-floor level, is a glass-covered thoroughfare that extends almost the full length of DR Byen.</p> <p>Besides forming the link between the buildings, this is where one can find the kiosk, café and courtyards. It will also be possible to use Indre Gade as a gathering-place for major events with room for a maximum of 600 people.</p>



**“FOR NOW,  
THIS IS THE MOST  
EXPENSIVE  
CONCERT HALL  
IN THE WORLD.  
SOON IT WILL JUST  
BE ONE OF THE BEST”**

**Financial Times**









**“WHEN THE STRING  
SECTION BEGINS  
TO SWELL, EVERY  
CORNER, EVERY  
LAYER, EVERY  
SURFACE SEEMS TO  
FILL WITH MUSIC.**

**Financial Times**



Koncertsalen

Studie

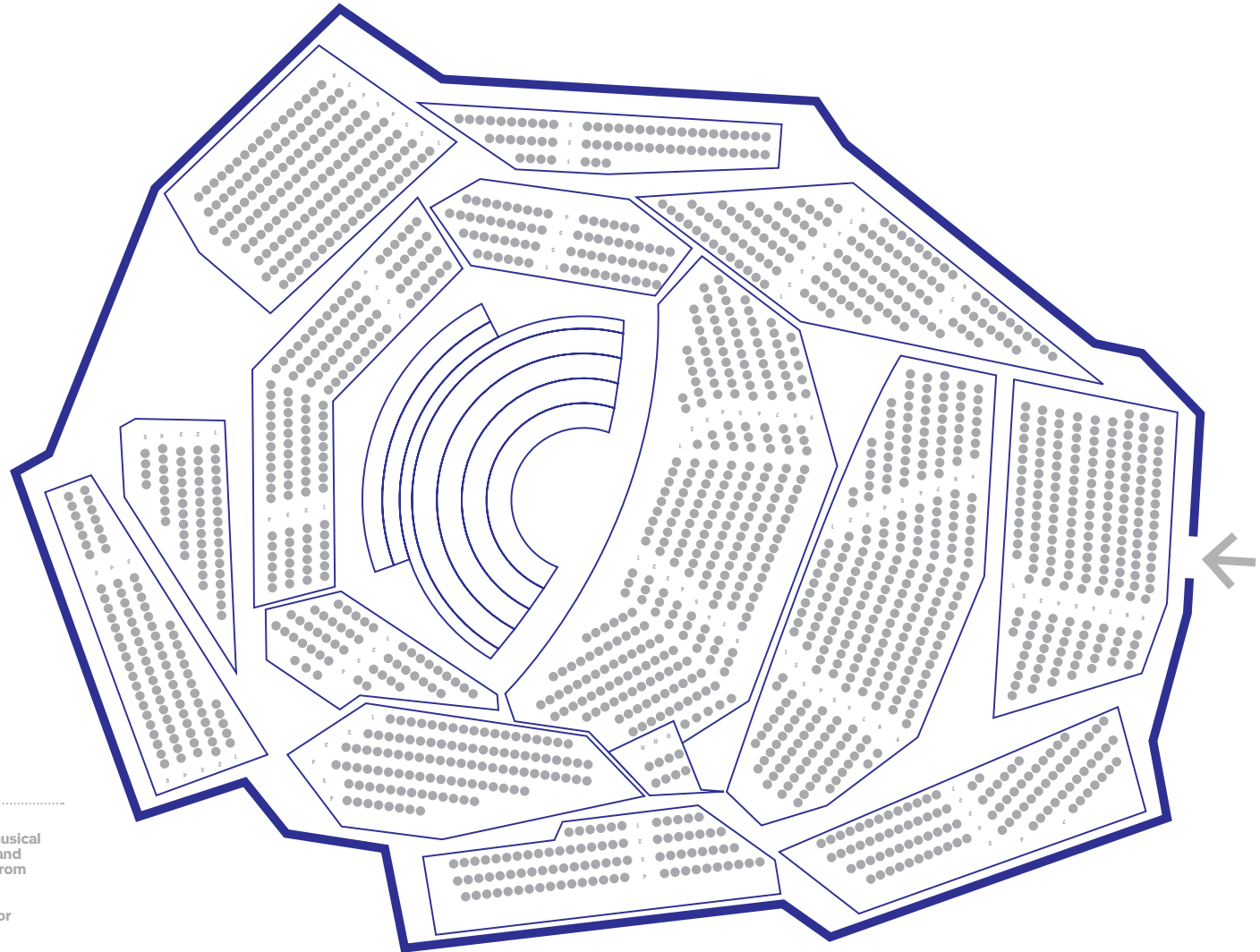


## The Concert Hall (Studio 1)

This is the largest hall of the concert complex. Its acoustics are optimized for symphonic music, but sound-regulating curtains can be used to vary the acoustics optimising the hall for jazz, pop and rock.

Despite its volume the hall appears surprisingly intimate to the audience, who are placed all the way round the stage on multi-level terracing.

The amphitheatre structure is inspired by the Berlin Philharmoni, while the warm, golden colours have been carried over from the colour scheme of the old DR Concert Hall. Behind the stage the organ towers up, and the atmospheric indirect lighting reflected from the walls completes the elegant look of the hall.



Number of seats: 1809

Wheelchair places: 16

Dimensions of the hall:  
60 x 47 x 24 metres  
(maximum L x W x H)

Control room: 47 m<sup>2</sup>

Commentator studio: 13 m<sup>2</sup>

Lighting control room: 24 m<sup>2</sup>

Volume of hall: 28,000 m<sup>3</sup>

Variable acoustics using  
curtains.

Stage area: 266.5 m<sup>2</sup>

Number of stage  
podiums: 28  
Number of flying points: 92

Microphone winches:  
24 single winches,  
2 3-point winches

Organ:  
Van den Heuvel – 92 stops

Other instruments:  
Steinway concert grand and  
orchestral grand

PA system: L'acoustic 45,200  
Watts distributed over 15  
speaker units

Recording equipment:  
SSL C200 128ch 48 fader  
128 mic input  
ProTools HD3 64 i/o  
Pyramix 72 i/o

Extra equipment:  
Large selection of musical  
instruments, sound and  
lighting equipment from  
central stores

Soloist and conductor  
rooms: 5

Elevators: 2 goods elevators

• L5 (5.2 x 2.5 x 2.3) metres  
& L4 (2.90 x 1.9 x 2.3) metres

Besides the audio facilities  
all four studios are wired  
and prepared for extra light  
equipment and advanced tv  
production.

Studie

2



## Studio 2

The second-largest hall of the concert building, which functions both as a rehearsal hall and a concert hall. The stage itself is identical to the one in the main Concert Hall (Studio 1), but here the fixed audience seats have been replaced with flexible rows of chairs. The hall is inspired by the scoring stages in Hollywood, and has clear associations with plain warehouse buildings and black-stencilled transport crates.

On the walls hang large boards of birch wood that can be run one in front of another to regulate sound and reverberation in the hall. On the light-coloured boards giant portraits of 38 selected soloists, conductors and composers have been stencilled as decoration. So surrounded by musicians like Miles Davis, Carl Nielsen and Van Morrison you are ready for great musical experiences with jazz, classical music, pop and rock.

Seats or standing: 540

Wheelchair places: Variable

Dimensions of the hall:  
29 x 21 x 12 metres  
(maximum L x W x H)

Total floor area: 555 m<sup>2</sup>

Control room: 50 m<sup>2</sup>

Sound insulation rooms A  
and B: Both 32 m<sup>2</sup>  
(possibility of using Room  
C, 30 m<sup>2</sup>)

Sound lock: 41 m<sup>2</sup>

Volume of hall: 6600 m<sup>3</sup>

Stage area: 215 m<sup>2</sup>

Number of stage  
podiums: 29

Number of flying points: 44

Instruments:  
Steinway concert grand &  
orchestral grand

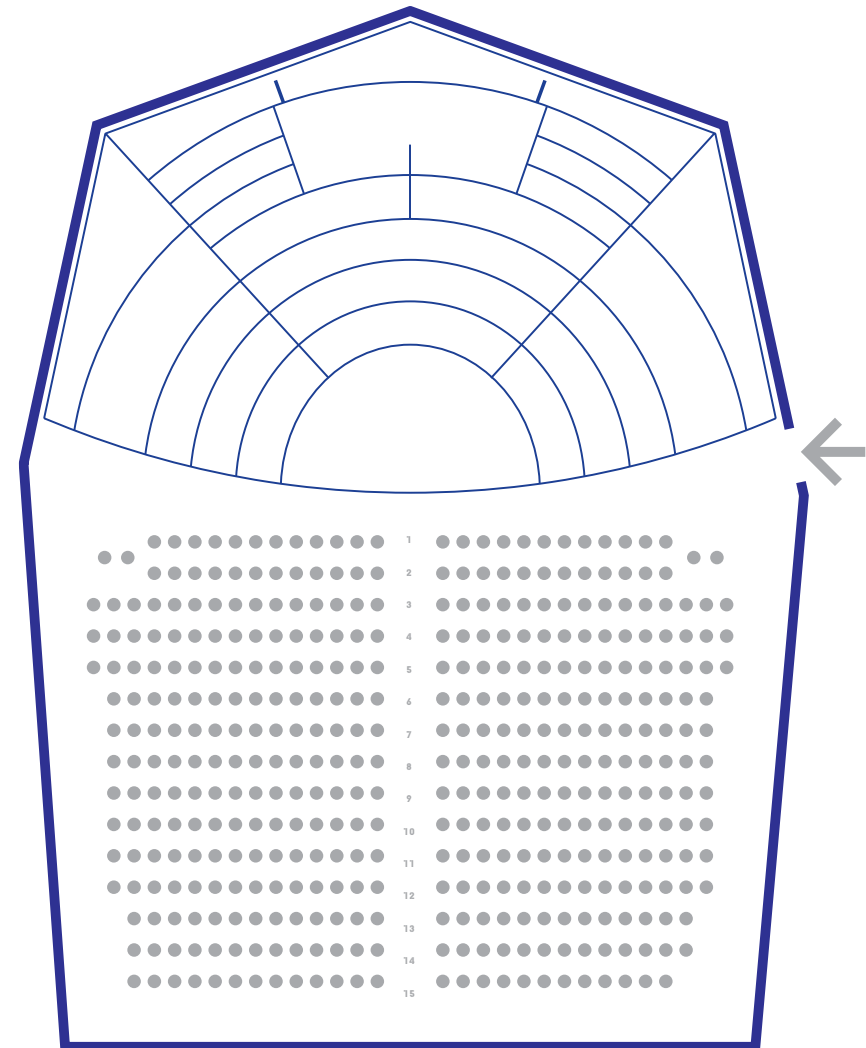
PA system:  
L'acoustic,  
6,600 Watts distributed  
over 5 speaker units.

Recording equipment:  
SSL C200 128ch 48 fader  
128 mic input  
ProTools HD3 96 i/o  
Pyramix 64 i/o

Extra equipment: Large  
selection of musical  
instruments, sound and  
lighting equipment from  
central stores

Soloist & conductor rooms: 4

Besides the audio facilities  
all four studios are wired  
and prepared for extra light  
equipment and advanced tv  
production.



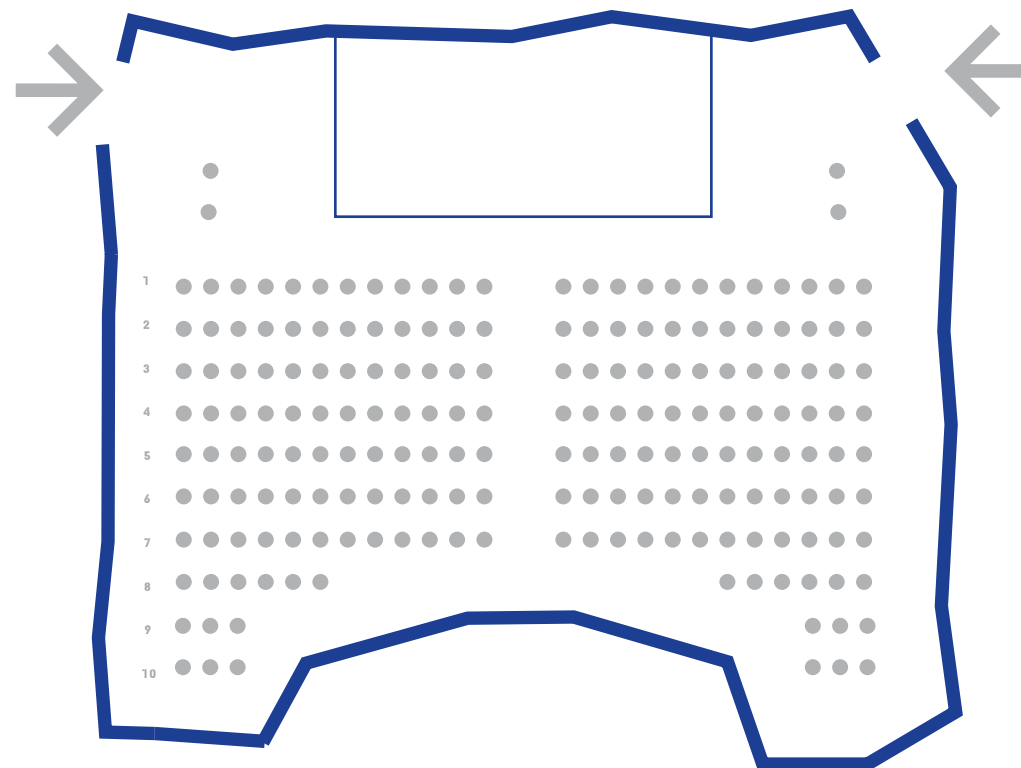
Studie

3



## Studio 3

**Studio 3 can be tailored to the occasion**, since it neither has a fixed stage nor fixed audience seating. The black walls in alternating glossy and matte surfaces have a wealth of hatches that can be opened and closed for acoustic regulation effects. When they are opened they are white inside, and it is clear that the black-and-white design is inspired by the grand piano.



Seats or standing: 170

Wheelchair places: Variable

Dimensions of the hall:  
17 x 15 x 8 metres  
(maximum L x W x H)

Total floor area: 235 m<sup>2</sup>

Control room: 51 m<sup>2</sup>

Sound isolation rooms:  
C and D (30 and 34 m<sup>2</sup>)  
Sound lock: 20 m<sup>2</sup>

Volume of hall: 1600 m<sup>3</sup>

Stage: Built up with mobile  
platforms, no fixed stage

Number of flying points: 19

Instruments:  
Steinway concert grand

PA system: Mobile

Recording equipment:  
SSL C200 128ch 48 fader  
96 mic input  
ProTools HD3 96 i/o

Extra equipment:  
Large selection of musical  
instruments, sound and  
lighting equipment from  
central stores

Soloist and conductor

Rooms: 1

Besides the audio facilities  
all four studios are wired  
and prepared for extra light  
equipment and advanced tv  
production.



Studie

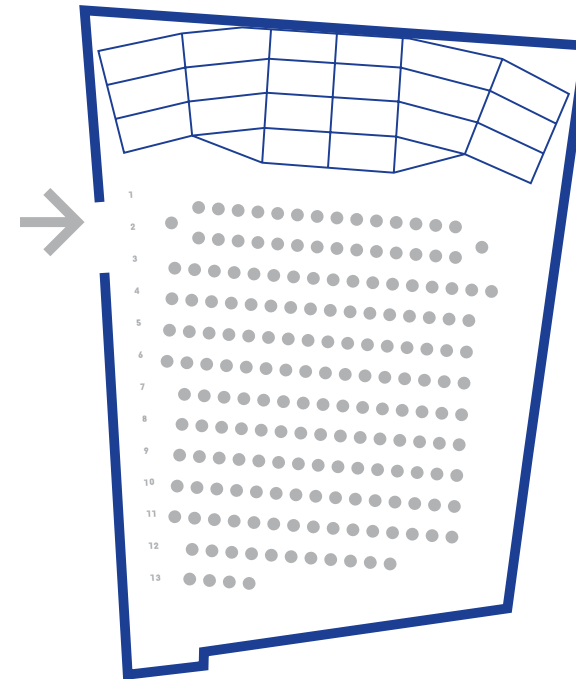
# 4



## Studio 4

A **flexible concert hall/production studio** where the stage is built up of platforms, and the audience can be placed on loosely arranged chairs. This means that the hall can be adapted for various ensemble and concert types, and the acoustics can be varied to suit the musical genre being performed.

The walls and ceiling of the hall are in dark red shades and the sound-regulating wall panels have the shape of elongated triangular 'Toblerone' bars. When the panels are turned, the acoustics change – an ingenious detail inspired by the pioneering research institute for music and acoustics, IRCAM in Paris.



Seats: 180  
(depending on stage size)

Standing places: 285

Wheelchair places: Variable

Dimensions of the hall:  
18 x 14 x 8 metres  
(maximum L x W x H)

Control room: 52 m2

Sound lock: 29 m2  
Sound isolation room  
Possibility of using  
Room D (34 m2)

Total floor area: 220 m2

Volume of hall: 2000 m3

Stage: Mobile stage

Number of flying points: 20

Instruments:  
Steinway concert grand

PA system: Mobile

Recording equipment:  
SSL C200 128ch 48 fader 48  
mic input

Extra equipment: Large  
selection of musical  
instruments, sound and  
lighting equipment from  
central stores

Soloist and conductor  
rooms: 2

Besides the audio facilities  
all four studios are wired  
and prepared for extra light  
equipment and advanced tv  
production.



# Foyer

## The Concert Hall foyer is one large room

distributed over seven levels, from about 2.5 metres below ground to about 30 metres above. The largest space, which welcomes the public, has a length of 96 metres. In the foyer there are 25 video projectors and 50 slide projectors projecting light images around the foyer. From the foyer the public can see the Concert Hall (Studio 1) “lifted above the ground”, and the musicians playing in Studios 2, 3 and 4.

In the foyer there are four mobile bars and cloak-rooms specially designed for the Concert Hall by Jean Nouvel. The inspiration comes from the ‘flight cases’ normally used to transport musical instruments among other things. The foyer also has a restaurant area.

A recurrent feature throughout the Concert Hall is the very distinctive concrete walls, cast with intermediate plastic layers and with a specially dressed surface called ‘elephant skin’ because of the folds in the concrete and its surprisingly soft texture.

From the foyer there is a view of Amager Common, which is a large nature reserve on the outskirts of Copenhagen.

With a volume of more than 35.000 m<sup>3</sup>, covering 7 levels with a span of more than 35 metres, the foyer area will inspire to be used for more than the gathering of a Concert audience. Concerts, launch-parties, conferences, meetings, parties, dining, showcases etc.

Capacity: 2550 people

Volume apx 35.000 m<sup>3</sup>

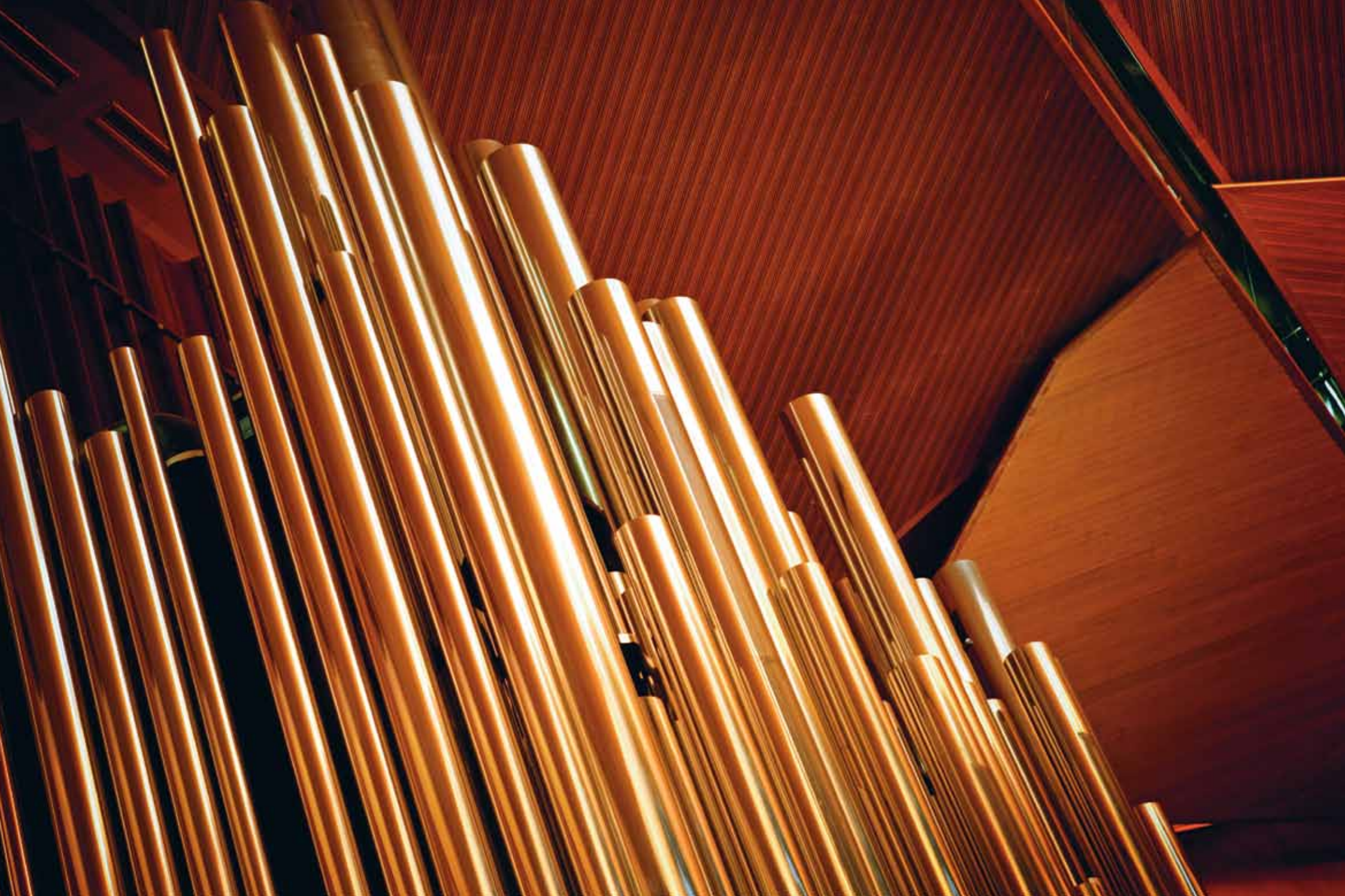
Floor area apx. 3000 m<sup>2</sup>

75 video and gobo projectors to be programmed

Stage, light and sound as optional installations

Optimised acoustics for music performance







**“IT IS A JOY  
AS REWARDING  
A CONCERT HALL  
AS ANY”**















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