



## ELBPILHARMONIE H A M B U R G

### The Elbphilharmonie Hamburg in figures

#### The building

No. of seats in the Grand Hall	ca. 2,100
No. of seats in the Recital Hall	ca. 550
No. of seats in the Kaistudio	ca. 170
Total weight (equates to approx. 416,666 grand pianos, 722 Airbus A 380 or 2.5 Queen Mary cruise ships)	ca. 200,000 t
Total gross floor area (equates to approx. 17 football pitches or 2/3 of the Alster lake)	ca. 120,000 m <sup>2</sup>
- Kaispeicher A	ca. 58,000 m <sup>2</sup>
- New glass construction	ca. 62,000 m <sup>2</sup>
Total gross room volume	ca. 485,600 m <sup>3</sup>
Applied steel	ca. 18,000 t
Applied concrete	ca. 63,000 m <sup>3</sup>
Area of Plaza	ca. 4,400 m <sup>2</sup>
Height of Plaza from ground level	37 m
Height of Grand Hall from ground level (12th – 17th floor)	50 m
Highest Point	110 m
Apartments	ca. 45
Hotel rooms	ca. 250
Parking spaces	ca. 500
No. of window elements	1, 100

## The Grand Hall

Number of seats:	2,100 (varies depending on use of the hall)
Maximum distance between conductor and audience	30 m
Elevation of the top seating tier	approx. 17.8 m above the concert hall's floor
Area (including stage)	approx. 2,590 m <sup>2</sup>
Dimensions of Grand Hall	length: 50 m, width: 40 m, height: 25 m
Sets of springs fitted in the building for bearing and acoustic isolation of the concert hall ("a room within a room")	362
Height of the concert hall within the building (floors)	50.81 m (12th floor)
Stage	floor area 270 m <sup>2</sup> width: 21.3 m, depth: 15.5 m
Reflector	Height about the stage: 15 m, diameter: 15 m

## The White skin

Surface area	ca. 6,000 m <sup>2</sup>
- Hall ceiling including upper balcony ceiling	ca. 1,700 m <sup>2</sup>
- Reflector's underside	ca. 200 m <sup>2</sup>
- Range of walls, ceilings, balustrades	ca. 3,700 m <sup>2</sup>
No of gypsum fibre panels	ca. 10,000
No of moulded recesses	ca. 1 million
Recess depth	varies between 0.5 and 9 cm
Size per panel	varies, usually around 0.5 m <sup>2</sup>
Total weight of "white skin"	226 tonnes
Weight per panel	varies between 35 and 200 kg, depending on size
Average weight per panel	70 kg

## Financing

Construction costs public area	€ 471.70 Mio.
Baukosten kommerzieller Bereich	€ 103.30 Mio.
Adamanta / Forfaitierung	€ 26.10 Mio.
Interest / financing	€ 48.50 Mio.
Costs General planner	€ 66.85 Mio.
Costs ReGe Hamburg	€ 67.40 Mio.
Taxes	€ 51.00 Mio.
Other project costs	€ 24.80 Mio.
Future free reservers	€ 6.00 Mio.
Total costs	€ 865.65 Mio.
Deducting donations	€ 57.5 Mio.
Deducting other income (sale, pre-planning commercial areas and apartments)	€ 19.1 Mio.
Costs for the public sector	€ 789.05 Mio.

## History of Planning and Realisation

- June 2003: »Philharmonie Hamburg« project sketch by architects Herzog & de Meuron including additional buildings (hotel, apartments, parking) on behalf of Alexander Gérard and Dieter Becken
- Sept. 2004: The Senate of the Free and Hanseatic City of Hamburg (FHH) awards ReGe Hamburg the contract for a feasibility study to be completed by May 2005.
- Feb. 2005: Pan-European competition announced to search for a private partner for its construction, financing and operation.
- July 2005: Based on the feasibility study the senate of FHH votes in favour of the construction of the Elbphilharmonie Hamburg.
- Autumn 2006: Planning application submitted.
- Feb. 2007: Hamburg City government unanimously votes in favour of construction of the Elbphilharmonie (proportion of costs for the City of Hamburg: 272 Million Euro)
- Apr. 2007: Building commences.
- Nov. 2008: Both parties agree to a settlement. Costs for the City of Hamburg increase to 495 Million Euro.
- May 2010: Topping-out ceremony
- Nov. 2011: Almost complete suspension of construction work by Hochtief
- Apr. 2013: After negotiations with the project partners, the City of Hamburg decides upon a restructuring of the project after which construction work is fully resumed. The restructuring agreement stipulates among other points:
- Additional responsibilities assigned to Hochtief: Assumption of all risks related to planning and construction, participation in a newly founded consortium with the architects, guaranteed meeting of quality requirements from the architects and the acoustician Yasuhisa Toyota, contractually guaranteed intermediate deadlines, and a binding date of completion
  - A new construction schedule: Handover of the concert venue areas by 30 June 2016, final inspection and acceptance of the Elbphilharmonie by 31 October 2016
  - Additional costs for the City of Hamburg: 256.65 Million Euro for the additional services executed by Hochtief and the architects and including, amongst others, costs for taxes and interest (Proportion of total costs for the City of Hamburg: 789 Million Euro)
- July 2013: Resumption of construction work
- Sept. 2013: Completion of 3D planning for the technical centre on the roof
- Nov. 2013: Completion of the building shell
- Dec. 2013: Installation of the White Skin begins
- Jan. 2014: Installation of the final element of the glass facade
- March 2014: Removal of the two tower cranes and installation of two rooftop cranes

- Spring 2014: Start of interior finishing work on the Plaza (Plaza tube, wind deflectors, ceilings and floors)
- May 2014: Completion of the element facade
- Aug. 2014: Completion of the roof, which is now sealed and rainproof
- Sept. 2014: Completed installation of nearly one third of the White Skin on the ceiling of the Grand Hall.
- Jan. 2015: Completed installation of the White Skin and the reflector on the ceiling of the Grand Hall. The renovation of the exterior facade of the red brick warehouse is finished.
- Apr. 2015: Completion of the technical area in the Grand Hall.
- June 2015: The Elbphilharmonie's project partners present the press with the current state of play regarding construction of the Plaza.
- Jan 2016 The Hamburg Senate gives the go-ahead for the Elbphilharmonie to launch its programme of events.
- Feb 2016 Completion of the "White Skin", the Grand Hall's special wall and ceiling structure comprising 10,000 gypsum fibre panels that are moulded to precision to ensure optimal acoustics.

#### **Developer**

Freie und Hansestadt Hamburg (FHH), Kulturbehörde,  
Hohe Bleichen 22, 20354 Hamburg, pressestelle@kb.hamburg.de,  
represented by  
ReGe Hamburg Projekt-Realisierungsgesellschaft mbH, Überseeallee 1, 20457 Hamburg,  
info@rege-hamburg.de

#### **General Planner**

Arbeitsgemeinschaft  
Herzog & de Meuron,  
Rheinschanze 6, CH-4056 Basel,  
Höhler + Partner Architekten und Ingenieure, Am Sandtorkai 73, 20457 Hamburg

#### **Partner for construction and operation**

ADAMANTA Grundstücks-Vermietungsgesellschaft mbH & Co. Objekt Elbphilharmonie KG.  
Subcontractor construction and operation:  
HOCHTIEF Solutions AG, Opernplatz 2, 45128 Essen

#### **Users of the Concert Hall**

HamburgMusik gGmbH – Elbphilharmonie und Laeiszhalle Betriebsgesellschaft  
Dammtorwall 46, 20335 Hamburg  
General and Artistic Director: Christoph Lieben-Seutter  
Financial Director: Jack F. Kurfess

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#### **Media contact:**

#### **Hamburg Marketing GmbH**

Natalie Ruoff  
Projektmanagerin Media Relations Elbphilharmonie  
+49 40 41 11 10 - 641  
Natalie.Ruoss@marketing.hamburg.de