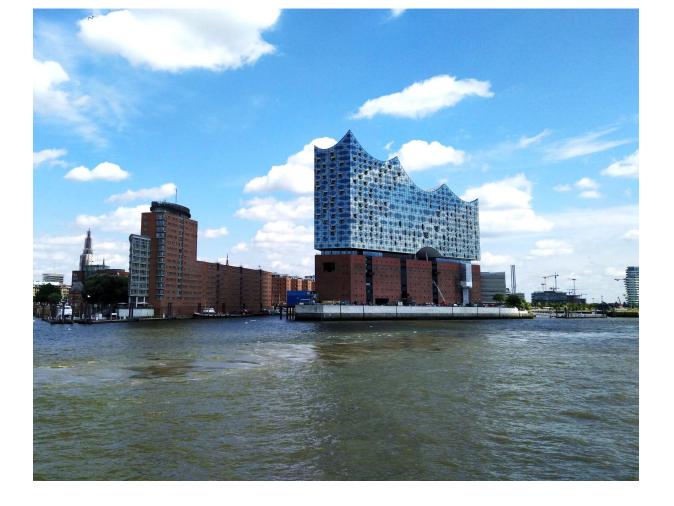
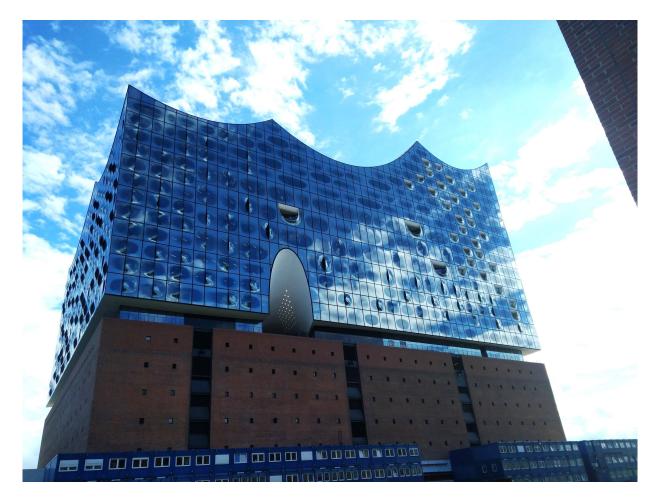


Hamburg city hall, Germany via Shutterstock







Elbphilharmonie Credit: Bushra Makiya

## "The €500m concert hall that was only meant to cost €40m"



Panorama of the Elbphilharmonie of Hamburg at night, with the view on to both sides of the building, the lake "elbe" and some ships via Shutterstock.

## Article

Paterson, Tony. "The €500m Concert Hall That Was Only Meant to Cost €40m." The Independent, Independent Digital News and Media, 4 Apr. 2010.



Baufortschritt Elbphilharmonie 17. Juli 2010. By <u>AG1965</u> (Own work) [<u>CC BY-SA 3.0</u> or <u>GFDL</u>], via Wikimedia Commons



Elbphilharmonie, Februar 2015. Teilansicht der Fassade mit Öffnungen. <u>© Raimond Spekking</u> / <u>CC BY-SA 4.0</u> (via Wikimedia Commons).

## **Elbphilharmonie Details & Facts**

OpenedJanuary 2017Start of construtionApril 2007

Total floor area of the entire building

Total weight of the building Amount of steel used Amount of cement used Total suface area of glass facade **Glass panels** Highest point in the west Highest point in the east No. of seats Grand Hall No. of seats Recital Hall No. of seats Kaistudio **Architects** Construction

approx. 120,000m<sup>2</sup> (approx. 17 football fields) approx. 200,000 tonnes 18,000 tonnes 63,000 m<sup>2</sup> 21.000 m<sup>2</sup> 2.200 110m 88m 2.100 550 150 Herzog & de Meuron Hochtief Solutions AG



The concert hall "Elbphilharmonie" reflecting the evening sun at sundown with the city flag of Hamburg via Shutterstock.



Window cleaner and maintenance on the outside of a skyscraper via Shutterstock.

## **The Skyscraper Problem**

The skyscraper is 50 stories high and is going to be covered entirely by windows on all four sides. Each floor will have 38 windows. Once a year, all the windows will need to be washed. The cost for washing the windows is \$2.00 for each first-floor window, \$2.50 for each second-floor window, \$3.00 for each third-floor window, and so on.

Floor	Cost per window
1	\$2.00
2	\$2.50
3	\$3.00