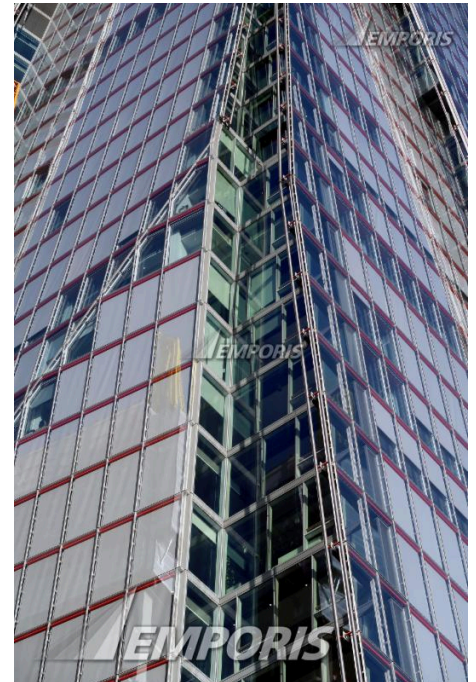


The Shard



Identification

EBN	101995
Name	The Shard
Alternative Name	Shard London Bridge, London Bridge Tower, the Shard of Glass
Construction Type	skyscraper
Complex Type	mixed-use
Complex Name	Shard Quarter
Current Status	existing [completed]



Location

Continent Name	Europe	District (1st level)	Southwark
Country Name	United Kingdom	Postcode	SE1
State Name	England	Address (as text)	32 London Bridge Street

Metro Area Name London Metro Area **Main Address** 32 London Bridge Street

City Name London

Map



Description

Structural System	core plus outrigger	Architectural style	modernism
Structural Material	steel concrete composite structure	Main Usage	residential commercial office hotel
Facade System	curtain wall	Side Usage	restaurant café bar swimming
Facade Material	glass		

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Spatial dimensions

Height (structural)	1,003.94 ft	Parking places	48
Height (tip)	1,003.94 ft	Escalators	8
Height (top floor)	801.51 ft	Elevators	44
Floors (overground)	73	Gross Floor Area (GFA)	Contact us
Units	Contact us		

Years and costs

Year (construction start)	2009	Building costs	\$ 1,900,000,000
Year (construction end)	2013		

Features & Amenities

- Double-decker elevators present
- Handicapped accessible
- Observation floor is available
- Raised floors are available

Facts

- The building has been officially inaugurated on July 5, 2012.
- At the lower levels, the tower extends the existing public concourse and opens up routes connecting Guy's Hospital, King's College and the southern residential areas to the business communities stretching along the river.
- Southwark Towers was demolished to make way for the building.
- The Shard's extensive use of energy-saving materials and techniques contributes to the building using 30% less energy than other high-rises of comparable dimensions.
- Following the September 11th attacks on the World Trade Center in New York, the London Bridge Tower was structurally redesigned to improve stability and reduce evacuation times.
- The tower's design features angled glass façade panels which result in a multiformity of changing reflected light patterns.
- The tower's form and proportions recall the church spires of the City and the masts of ships which plied their trade along the adjacent Thames.

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- The tower is environmentally friendly and at 306m (1,003ft) is Western Europe's tallest habitable building.
- The project is a response to the Mayor's policy of promoting high density development at key transport nodes.
- The Shard is the first skyscraper in Western Europe to both reach and exceed 1,000 feet in height.
- Unlike other cities such as New York or Hong Kong, the Shard is not part of an existing cluster of high rise buildings. References included the masts of ships docked in the nearby Pool of London and Monet's paintings of the Houses of Parliament.
- The project was given final approval following a Public Inquiry on 19th November 2003.
- The building opened the gallery with 360 degree panorama views of London in February 2013.
- The internal areas are used as follows: public areas on floors 1 to 3; offices on floors 4 to 31; a mid-level public area and viewing gallery on floors 34 to 36; a hotel on floors 37 to 51; 114 apartments on floors 52 to 64; and an upper viewing gallery on floors 65 to 66.
- The building's design has been described by the architect as resembling a sharp, crystal pyramid.
- The lower level is devoted to 27 office floors.
- The building features a concrete frame which sits atop one made from steel.
- Each floor features naturally ventilated 'winter gardens' with operable louvre windows.
- The construction contract for the project was signed with Mace in late February 2009.
- Europe's highest public viewing gallery in a building is situated at 244 metres (800 feet) on levels 68 to 72.
- The building's façade is both double-skinned and ventilated, thus reducing solar gain whilst maximising light intake. In the "fractures" between the shards opening vents provide natural ventilation to winter gardens.
- The main structural element is the slip formed concrete core in the centre of the building. It houses the main service risers, lifts and escape stairs.
- Floors 34 to 52 are occupied by a 185-room Shangri-La hotel. It opened on May 6, 2014.
- The original design for this project, by Broadway Malyan, featured a circular tower of 87-storeys, 365-metres in height. This design was then replaced by an 80-storey, 390-metre design by Renzo Piano, described by many as a 'shard of glass'. Due to further consultation, a height of 310-metres was decided on, and the tower was reduced to 66-storeys.

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- The building's movement is not restricted with any form of damping. Extra rigidity has been attained by employing a 'hat truss' at the building's top, which comprises outriggers that connect the perimeter columns to the core.
- The lowest of the two public viewing galleries is situated at 121 metres (397 feet) and features 5-star restaurants.
- Residential units are situated at heights from 192 metres (631 feet) to 224 metres (735 feet) and are the tallest in London.
- Excess heat generated by the offices is used to heat the hotel and apartments, whilst any superfluous heat is dissipated naturally via a radiator atop the building.

Awards

Name	Category	Rank	Year
Emporis Skyscraper Award		1	2013
CTBUH Skyscraper Award	Best Tall Building Award - Europe		2013

Involved companies

Associate Architect.....

Adamson Associates (International) Limited

6th Floor, One Canada Square	Phone	+44 20 7418 2068
E14 5AB London	Fax	+44 20 7418 2517
United Kingdom	Email	info@adamson-associates.com

Design Architect.....

Renzo Piano Building Workshop SRL

Via Rubens, 29	Phone	+39 010 61 71 1
16158 Genoa	Fax	+39 010 61 71 350
Italy	Email	italy@rpbw.com

Hoist Supplier (construction).....

Alimak Hek Group AB

Brunkebergstorg 5	Phone	+46 (0)8 402 1440
111 51 Stockholm	Fax	+46 (0)8 402 1459
Sweden	Email	info@alimakhek.com

Sealants & Adhesives Supplier.....

Sika Services AG

Tüffenwies 16	Phone	+41 58 436 40 40
8048 Zürich	Fax	+41 58 436 55 30

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Switzerland

Additional company data available for this building

Concrete Supplier	Contact us	Investor	Contact us
Consultant	Contact us	MEP Engineering	Contact us
Developer	Contact us	Owner	Contact us
Elevator Consultant	Contact us	Project Management	Contact us
Elevator Supplier	Contact us	Quantity Surveyor	Contact us
Environmental Consultant	Contact us	Real Estate Agent	Contact us
Escalator Supplier	Contact us	Security System Consultant	Contact us
Facade Engineering	Contact us	Shell Construction	Contact us
Facade Maintenance System Supplier	Contact us	Site Agent	Contact us
Facade Supplier	Contact us	Steel Supplier	Contact us
Fire Protection Engineering	Contact us	Structural Engineering	Contact us
Foundation Company	Contact us	Tenant	Contact us
General Contractor	Contact us	Wind Surveyor	Contact us

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