Shanghai Tower

Facts

Official Name
Shanghai Tower

Other Names
Shanghai Center

Structure Type
Building

Status
Completed

Country
China

City
Shanghai

Street Address & Map
Lujiazui Financial Center, Pudong New Area

Postal Code
200120

Building Function
hotel / office

Structural Material
composite
  • Core: Reinforced Concrete
  • Columns: Concrete Encased Steel
  • Floor Spanning: Steel

Energy Label
LEED Platinum BD+C: Core and Shell

Proposed
2008

Construction Start
2009

Completion
2015

Official Website
Shanghai Tower

Rankings
Click arrows to view the next taller/shorter buildings

Global Ranking
#2 Tallest in the World

Regional Ranking
#1 Tallest in Asia

National Ranking
#1 Tallest in China

City Ranking
#1 Tallest in Shanghai

Companies Involved

Owner/Developer
Shanghai Tower Construction & Development

Architect
• Design
Gensler

• Architect of Record
Tongji Architectural Design (Group) Co., Ltd.

• Peer Review
East China Architectural Design & Research Institute

Structural Engineer
• Design
Thornton Tomasetti

• Engineer of Record
Tongji Architectural Design (Group) Co., Ltd.

• Peer Review
China Academy of Building Research

 MEP Engineer
• Design
Cosentini Associates; Aurecon

• Engineer of Record
Tongji Architectural Design (Group) Co., Ltd.

• Peer Review
WSP | Parsons Brinckerhoff

Project Manager
Shanghai Jianke Engineering Consulting Co., Ltd.

Main Contractor
Shanghai Construction Group

Other Consultant
• Cost
Shanghai Shenyuan Property Consultants; Rider Levett Bucknall

• Damping
WSP | Parsons Brinckerhoff

• Energy Concept
CEES-Advisors; KooPx; Vidaris, Inc.

• Façade
WSP | Parsons Brinckerhoff

• Fire

• Geotechnical

• Landscape

• LEED

• Life Safety

Height: To Tip
632 m / 2,073 ft

Height: Architectural
632 m / 2,073 ft

Height: Occupied
583.4 m / 1,914 ft

Height: Observatory
562.1 m / 1,844 ft

Floors Above Ground
128

Floors Below Ground
5

# of Elevators
106

Top Elevator Speed
20.5 m/s

Tower GFA
420,000 m² / 4,520,842 ft²

Development GFA
521,000 m² / 5,607,997 ft²

# of Hotel Rooms
258

# of Parking Spaces
1,794
About Shanghai Tower

As the third tower in the trio of signature skyscrapers at the heart of Shanghai's new Lujiazui Finance and Trade Zone, Shanghai Tower embodies a new prototype for tall buildings. Placed in close proximity to Jin Mao Tower and Shanghai World Financial Center, the new tower rises high above the skyline, its curved façade and spiraling form symbolizing the dynamic emergence of modern China. But its twisting form goes beyond just creating a unique appearance; wind tunnel tests confirm a 24 percent savings in structural wind loading when compared to a rectangular building of the same height.

More than a landmark, the mixed-use tower offers a sustainable way of living in a vertical city, with a unique mix of restaurants, shops, offices, and hotels spaced throughout the building. The tower's program is organized into nine vertical zones. Each of these vertical neighborhoods rise from a sky lobby, a light-filled garden atrium that creates a sense of community and supports daily life with a varied program catering to tenants and visitors. The sky lobbies function much like traditional town plazas and squares, bringing people together throughout the day. These civic spaces recall the city's historic open courtyards, which merge interiors with exteriors in a landscaped setting.

Shanghai Tower is one of the most sustainably advanced tall buildings in the world. A central aspect of its design is the transparent second skin that wraps around the entire building. The ventilated atriums it encloses conserve energy by modulating the temperature within the void. The space acts as a buffer between the inside and outside, warming up the cool outside air in the winter and dissipating heat from the interior in the summer. The tower also notably employs a tri-cogeneration system, a grey water/rainwater system, and several renewable energy sources.

Shanghai Tower

CTBUH Initiatives

CTBUH China Participates in Vertical Marathon
25 Nov 2018 – Event Report

CTBUH Study Examines Tallest Buildings with Dampers
22 Aug 2018 – CTBUH Research

Vertical Transportation: Ascent & Acceleration
12 Sep 2017 – CTBUH Research

More Initiatives ➔

Research Papers

The Global Tall Building Picture: Impact of 2018
Jan 2019 – CTBUH Journal 2019 Issue I

World’s Tallest Buildings with Dampers
Jul 2018 – CTBUH Journal, 2018 Issue III

The Global Tall Building Picture: Impact of 2017
Feb 2018 – CTBUH Journal, 2018 Issue I

More Papers ➔

Videos

A Vernacular Megatall: Shanghai Tower
3 Nov 2016 – Jianping Gu, Shanghai Tower C&D; Grant Uhlir, Gensler

Interview: Shanghai Tower
3 Nov 2016 – Jianping Gu, Shanghai Tower C&D; Grant Uhlir, Gensler

CTBUH Video Interview – Andrew Nicholson
18 Oct 2016 – Andrew Nicholson, CBRE

More Videos ➔

CTBUH Awards

Best Tall Building Worldwide 2016 Winner
CTBUH Awards 2016

China Innovation 2016 China Winner
CTBUH Awards 2016

Best Tall Building Asia & Australasia 2016 Winner
CTBUH Awards 2016
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