

Tianjin CTF Finance Centre

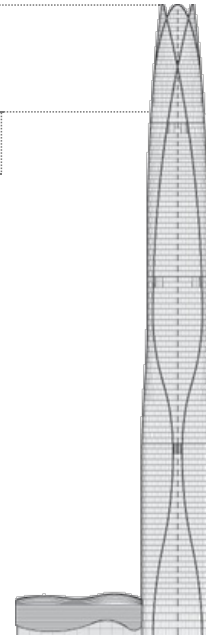


© Seth Powers | SOM via CTBUH



Height: To Tip
530.4 m / 1,740 ft

Height:
Architectural
530 m / 1,739 ft
Height: Occupied
439.4 m / 1,441 ft



Floors Above Ground
97

Floors Below Ground
4

of Elevators
80

Top Elevator Speed
10 m/s

Tower GFA
291,000 m² / 3,132,298 ft²

Development GFA
389,000 m² / 4,187,161 ft²

of Apartments
249

of Hotel Rooms
365

of Parking Spaces
1,761

Click an image to view larger version.

Facts

Official Name	Tianjin CTF Finance Centre
Other Names	Tianjin Chow Tai Fook Binhai Center
Structure Type	Building
Status	COM
Country	China
City	Tianjin
Street Address & Map	No.61, First Street, Binhai New Area
Postal Code	300457
Building Function	hotel / serviced apartments / office
Structural Material	composite <ul style="list-style-type: none"> Core: Reinforced Concrete Columns: Concrete Encased Steel Floor Spanning: Steel

Energy Label	LEED Gold
Proposed	2011
Construction Start	2013
Completion	2019

Companies Involved

Owner/Developer	Chow Tai Fook Enterprises
Architect	<ul style="list-style-type: none"> Design: Skidmore, Owings & Merrill LLP Architect of Record: Ronald Lu & Partners; East China Architectural Design & Research Institute
Structural Engineer	<ul style="list-style-type: none"> Design: Skidmore, Owings & Merrill LLP Engineer of Record: East China Architectural Design & Research Institute Peer Review: Leslie E. Robertson Associates
MEP Engineer	<ul style="list-style-type: none"> Design: WSP Engineer of Record: East China Architectural Design & Research Institute
Project Manager	New World China Land Limited
Main Contractor	China Construction Eighth Engineering Division
Other Consultant	<ul style="list-style-type: none"> Acoustics: Campbell Shillinglaw Lau Ltd BIM: Syntegrate Cost: Rider Levett Bucknall Façade: Arup; Ronald Lu & Partners; Skidmore, Owings & Merrill LLP Façade Maintenance: Arup Interiors: Dreamtime Australia Design; Laguarda.Low Architects; Lim + Lu; AB Concept Limited; Make PLandscape Co., Ltd.; AECOM Landscape: Brandston Partnership, Inc.; Isometrix Lighting + Design, Ltd. Security: WSP Traffic: Arup Vertical Transportation: WSP Wind: BMT Fluid Mechanics Ltd.
Material Supplier	

- Aluminium [Guangdong JMA Aluminium Profile Factory \(Group\) Co., Ltd.](#)
- Ceiling [Armstrong Ceiling Solutions](#)
- Cladding [Dow](#)
- Façade Maintenance Equipment [CoxGomyl](#)
- Paint/Coating [Jotun](#)

About Tianjin CTF Finance Centre

The Tianjin CTF Finance Centre is located in the Tianjin Economic-Technological Development Area, an outer district of Tianjin, China. The tower serves as an anchor for the larger area development, while housing office space, luxury serviced apartments, and a hotel.

By stacking reducing floor plates, the tower tapers dramatically to minimize the surface area exposed to wind, sun, and moisture. The gently-undulating curves of the façade subtly denote the integration of the three distinct programs within a singular smooth object. Square in plan with rounded corners, the floor plate geometry enables unique interior fit-outs and customization options for occupants. Research by the architect has shown that lateral forces due to vortex shedding can be controlled by tapering the vertical profile of the tower and softening any sharp corners in plan. The building's aerodynamic shape greatly reduces this vortex shedding by "confusing the wind" and disrupting the opportunity for any resonating wind forces and loads on the structure.

The softly curving glass skin integrates eight sloping megacolumns that follow a lyrical line connecting the centers and corners of all four elevations. These curving megacolumns increase the structure's response to seismic concerns and are integral to both the gravity and lateral systems. They are effective in increasing the stiffness of the building's perimeter frame, consequently attracting a larger portion of the seismic forces in compliance with the Chinese code requirements.

The façade reinforces the curvature of the tower form and creates a shimmering texture over the building's surface. The crystalline-like curtain wall stretches from the suspended glass canopies at each of the lobbies to the dematerialized, megacolumn-looped crown and presents a bold expression of a comprehensive, integrated design on the Tianjin skyline.

Tianjin CTF Finance Centre

CTBUH Initiatives

[Top Company Rankings: The World's 100 Tallest Buildings](#)

13 Oct 2016 – CTBUH Research

[The Tallest 20 in 2020: Entering the Era of the Megatall](#)

8 Dec 2011 – CTBUH Research

[CTBUH Releases Year in Review: Tall Trends of 2019](#)

12 Dec 2019 – CTBUH Research

Research Papers

[Tall + Urban Innovation 2020: Dominant Trends](#)

Mar 2020 – CTBUH Journal 2020 Issue II

[The Tallest 20 in 2020: Predictions vs. Reality](#)

Mar 2020 – CTBUH Journal 2020 Issue II

[The Tallest 20 in 2020: Then and Now](#)

Mar 2020 – CTBUH Journal 2020 Issue II

[More Papers](#) →

Videos

[A Cultural Brand's Journey Toward Building A Better New World](#)

17 Oct 2016 – Stanley Wu, New World Development Company Limited

[A New Skyline Vision: CTF Towers in Guangzhou and Tianjin](#)

17 Sep 2014 – Wing Ip (David) Ho, New World Development Company Limited

[Considering Place in an Integrated Approach to Tall](#)

19 Sep 2012 – Brian Lee & William Baker, SOM

CTBUH Awards

[Best Tall Building 400 meters and above 2020 Award of Excellence](#)

CTBUH Awards 2020

[Construction Award 2020 Award of Excellence](#)

CTBUH Awards 2020

[Structural Engineering Award 2020 Award of Excellence](#)

CTBUH Awards 2020

To submit more information or donate images for this project, please use our [submission portal](#).