

Ping An International Finance Center

Shenzhen, China

Owner

Ping An Life Insurance Company of China, Ltd.

Client/Architect

Kohn Pedersen Fox Associates

Completion Date

2015

Construction Cost

\$678 million

Total Area

468,600 m²

Height

660 m



Thornton Tomasetti is providing performance-based structural design services for what will become the world's second tallest building and the tallest in China, at 660 meters. Basement excavation and foundation work for the 116-story office tower began in early 2010. The building has a total gross floor area of 378,600 square meters plus a basement area of 90,000 square meters. The project will consist of offices, supporting facilities, a conference center, and parking. It will seek LEED-Gold certification.

The selected structural system consists of a composite concrete core with steel outriggers connecting to eight super-columns. The exterior frame is composed of seven double layer belt trusses located at the mechanical and refuge floors. The exterior belt trusses are interconnected with a super diagonal at each exterior face of the building. The project also includes a steel-framed 11-story podium with high-end shopping arcades, restaurants and roof-top cafes. Thornton Tomasetti has performed extensive nonlinear dynamic time history seismic analysis.