

# Ping An International Finance Center, North Tower

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Shenzhen, China

**Owner**

Ping An Life Insurance Company of  
China, Ltd.

**Client / Design Architect**

Kohn Pedersen Fox Associates

**Associate Architect**

Kohn Pedersen Fox Associates

**Completion Date**

2016

**Construction Cost**

\$678 million

**Total Area**

468,600 m<sup>2</sup>

**Height**

600 m

**Number of Stories**

118

**Services**

Structural Engineering



Image courtesy of Kohn Pedersen Fox Associates



Thornton Tomasetti is providing performance-based structural design services for a 600-meter tower, located in Shenzhen, China. Basement excavation and foundation work for the 118-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.

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 rooftop cafes. Thornton Tomasetti has performed extensive nonlinear dynamic time history seismic analysis.