

We've The Zenith

Busan, South Korea

Owner

Doosan Construction and Engineering Co. Ltd.

Architect

DeStefano + Partners, Ltd.

Engineer of Record

New Engineering Consultants Inc.

Completion Date

2012

Total Area

572,534 m² (6.1 million sf)

Number of Stories

70 stories and 80 stories

Building Height

984 ft (300 m)

Awards

Best of What's New, 2011, Popular Science

Hankyung Grand Prize, December 2011



The tallest residential tower in Asia broke ground in December 2007 and is rising on the waterfront in South Korea's second largest city, Busan. At 80 stories, the tallest of three towers in We've the Zenith forms the centerpiece of a 572,534-square-meter mixed-use development, which includes a retail podium and six basement levels used to house retail, parking, and mechanical facilities. The complex features a total of 1,788 units.

Exposure to typhoons has been the biggest engineering challenge in the project's design. The team needed to design the structures to withstand sustained winds of 90 miles per hour and gusts to 105 miles per hour. The towers present a smooth rounded face to the wind, making them more aerodynamic to reduce wind forces. Also helping to improve stability and comfort for occupants is the building's wide stance with an aspect ratio of nearly 1:7. The efficient design of the core wall, which is butterfly-shaped in cross section, maximizes building stiffness while minimizing the amount of material.

