

Trump International Hotel and Tower

Chicago, IL



The Trump International Hotel and Tower is located on the Chicago River and was opened on January 30, 2008 and completed in 2009 at a cost of \$847 million. This 92 story Hotel and Condominium complex, built for the Trump Organization, stands almost 1400 feet including the tower. The building is the second tallest in the United States. Upon its completion in 2009, the building will become the seventh-tallest building in the world.

The building was designed by Skidmore, Owings and Merrill, Structural engineering was by William F. Baker and the Contractor was Bovis Lend Lease. Of the \$600 million construction budget, \$130 million was earmarked for the James McHugh Construction Co, who handled the 180,000-cubic-yard (140,000 m³) concrete-only portion of the job.

The building has 2,600,000 square feet (242,000 m²) of floor space and houses 486 luxury residential condominiums. The 3rd through 12th floors house lobbies, retail space, and the parking garage; the 14th floor and its mezzanine hosts a health club and spa. The 17th floor through the 27th-floor mezzanine contain hotel condominiums and executive lounges. The 28th through 85th floors have residential condominiums, and the 86th through 89th floors have penthouses.

In March 2005, the construction process began. Within a single 24-hour period in October 2005, a fleet of 30 concrete trucks made 600 trips to pour 5,000 cubic yards (3,800 m³) of concrete, and thus create a 200-by-66-by-10-foot (61.0 m x 20.1 m x 3.0 m) concrete "mat". The mat serves as the base of the building, from which its spine rises. Prairie Material Sales Inc. used a formula of concrete that had never been used in the construction business to meet a 10,000 psi specification. In addition, new technology was used on other areas of the structure to enable concrete to be pumped 1,700 feet to the top of the structure.

Approximately 2500 ton of epoxy-coated reinforcing steel (rebar) and epoxy-coated dowels were used in the parking garage and all of the reinforcement materials were coated by a CRSI Certified Epoxy-coating Plant.

Team

Owner:

Trump Organization

Architect:

Adrian Smith, Skidmore, Owings and Merrill

Architect of Record:

Skidmore, Owings and Merrill LLP

Developer:

Trump Organization

Structural Engineer:

William F. Baker

General Contractor:

Bovis Lend Lease

Design Criteria:

- Creation of an innovative high-rise in a high-profile location.
- Mixed use tower.

Total Project Cost:

\$847 million

Epoxy-coated Reinforcing Steel:

2500 ton approximately (parking structure)

Photography:

innersource.com