



A classic obelisk shaped monumental building.

One World Trade Center was completed November 3, 2014.

The much awaited 'observation deck' opened to the public on May 29, 2015.

One World Trade Center - New York City

PROJECT SUMMARY

Site Description	Multiple building towers with transportation and retail hub, 9/11 Museum and Memorial Fountains at the former World Trade Center site
Official Building Name	One World Trade Center
Other Names	Freedom Tower (pre 2009), 1 WTC
Address	1 World Trade Center, New York, NY 285 Fulton St, Manhattan, NY 10007
Construction Start	April 27, 2006
Opening Date	November 3, 2014
Occupancy	Estimated 10,000 occupants (@ 100% leased)
Observatory	Additional estimated 14,000 visitors per day (5 million per year)
Energy Rating	LEED CS (Core & Shell) Gold

PROJECT TEAM

Developer	Port Authority of New York & New Jersey
Architect	Skidmore, Owings & Merrill
Structural Engineer	Schlaich Bengermann and Partner, WSP Cantor Seinuk
MEP Engineer	Jaros Baum & Bolles
Project Manager	Tishman Construction
Primary Contractor	DCM Erectors Inc., Tishman Construction
Façade Consultant	Benson Industries, Permasteelisa Group
Observatory	The Hetteema Group

One World Trade Center - New York City

BUILDING CONSTRUCTION SUMMARY

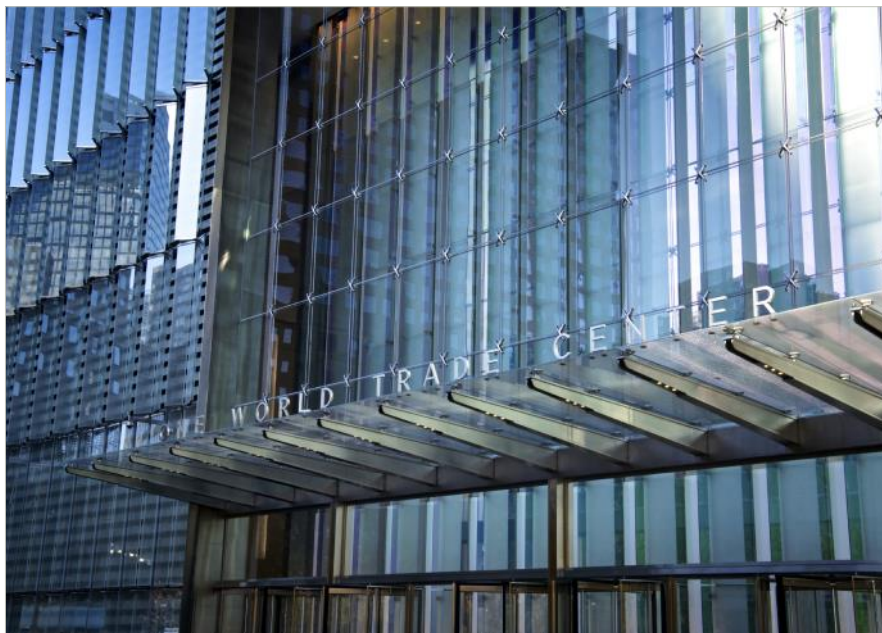
Height Rankings	#3 Tallest in World Tallest in US & North America
Height To Tip	1,792 feet 564 meters
Height Architectural	1,776 feet 542 meters
Highest Occupied Floor	1,268 feet 387 meters
Observation Floors	Floors 100 - 102
Number of Floors	Below Ground - 5 Above Ground - 94 (+ mechanical & mezzanine floors). Top floor (below roof) counted as 104
Office Space	3 Million SF Class A Office
Structural Steel	45,000 Tons
Concrete	200,000 cubic yards (enough concrete to make a sidewalk from New York to Chicago)
Elevators Escalators	73 Elevators 11 Escalators

LIFE SAFETY FEATURES

Structural	Strong redundant steel framing and concrete core shear wall
Core Areas	Reinforced concrete including 3' core walls protecting life safety systems
Emergency Stairwells	3 extra-wide stairwells; 2 for occupants and 1 for firefighter's emergency responders Pressurized to prevent smoke infiltration
Life Safety Systems	State of the art fire detection and fire protection including emergency generator back-up for critical systems



Lobby Entrance Elevation View
Obelisk shape - Façade ascends to a point



Main Lobby Entrance
55 foot high main lobby accessible from 3 frontages
Connected to the underground transportation network

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SUSTAINABILITY

USGBC LEED Rating	LEED CS (Core & Shell) Gold
Curtain Wall Glazing	90% of occupied spaces uses natural light
Storm Water	100% storm water recycled
Municipal Water	30% reduction in municipal water consumption
Fuel Cells	14% of energy supply from fuel cells in the operating plant located below grade

VERTICAL TRANSPORTATION

Manufacturer	ThyssenKrupp
System Summary	73 Elevators 11 Escalators Intelligent 'Destination Dispatch' facilitates the efficient distribution and transportation of passengers to their respective floors. Occupants' programmed security cards, utilized in the lobby security screening process, provides data to the elevator system intranet.
High-Speed Elevators	54 total high-speed elevators 5 high-speed express elevators, referred to as 'Sky Pods', directly serve 'One World Observatory'. These sky pods travel at 10 meters per second transporting passengers to the 100th floor 'One World Observatory' in 60 seconds.
Specialized Design	Acoustic and aerodynamic engineering was included in the design process in order to ensure a smooth quiet passenger ride.



One World Trade Center - Upper Portion Of Building

- ◇ 4 Floors - Roof Mechanical Spaces
- ◇ 3 Floors (100 through 102) - One World Observatory
- ◇ 6 Floors - Upper Mechanical Spaces
- ◇ 90th Floor & Below - Office Space