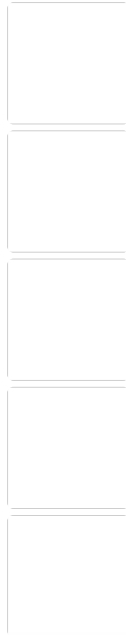


## One World Trade Center

Click an image to view larger version.



**Height: To Tip**

546.2 m / 1,792 ft

**Height:**

**Architectural**

541.3 m / 1,776 ft

**Height: Occupied**

386.5 m / 1,268 ft

**Height: Observatory**

386.5 m / 1,268 ft

**Floors Above Ground**

94

**Floors Below Ground**

5

**# of Elevators**

73

**Top Elevator Speed**

10.16 m/s

**Tower GFA**

325,279 m<sup>2</sup> / 3,501,274 ft<sup>2</sup>

### Facts

<a href="#">Official Name</a>	One World Trade Center
<a href="#">Name of Complex</a>	World Trade Center
<a href="#">Other Names</a>	Freedom Tower
<a href="#">Structure Type</a>	Building
<a href="#">Status</a>	Completed
<a href="#">Country</a>	United States
<a href="#">City</a>	New York City
<a href="#">Street Address &amp; Map</a>	1 World Trade Center
<a href="#">Postal Code</a>	10048
<a href="#">Building Function</a>	office
<a href="#">Structural Material</a>	composite <ul style="list-style-type: none"> <li>• Core: Reinforced Concrete</li> <li>• Columns: Steel</li> <li>• Floor Spanning: Steel</li> </ul>

<a href="#">Energy Label</a>	LEED Gold
<a href="#">Proposed</a>	2005
<a href="#">Construction Start</a>	2006
<a href="#">Completion</a>	2014
<a href="#">Official Website</a>	<a href="#">One World Trade Center</a>

### Rankings

<a href="#">Global Ranking</a>	#6 Tallest in the <a href="#">World</a>
<a href="#">Regional Ranking</a>	#1 Tallest in <a href="#">North America</a>
<a href="#">National Ranking</a>	#1 Tallest in <a href="#">United States</a>
<a href="#">City Ranking</a>	#1 Tallest in <a href="#">New York City</a>

Click arrows to view the next taller/shorter buildings



### Companies Involved

<b>Owner</b>	
• Current	1 World Trade Center LLC
• Past	Silverstein Properties
<b>Developer</b>	Port Authority of New York and New Jersey; <a href="#">The Durst Organization</a>
<b>Architect</b>	
• <a href="#">Design</a>	<a href="#">Skidmore, Owings &amp; Merrill LLP</a>
<b>Structural Engineer</b>	
• <a href="#">Design</a>	<a href="#">WSP Group</a> ; <a href="#">Schlaich Bergermann und Partner</a>
• <a href="#">Peer Review</a>	<a href="#">Leslie E. Robertson Associates</a>
<b>MEP Engineer</b>	
• <a href="#">Design</a>	<a href="#">Jaros, Baum &amp; Bolles</a>
<b>Project Manager</b>	STV
<b>Main Contractor</b>	<a href="#">Tishman Construction</a>
<b>Other Consultant</b>	
• Acoustics	<a href="#">Cerami &amp; Associates</a>
• Building Monitoring	<a href="#">Viridian Energy &amp; Environmental, LLC</a>
• Civil	<a href="#">Philip Habib &amp; Associates</a>
• Code	<a href="#">Code Consultants, Inc.</a>
• Cost	<a href="#">AECOM</a>
• Energy Concept	<a href="#">Viridian Energy &amp; Environmental, LLC</a>
• Environmental	<a href="#">Arnold &amp; Porter LLP</a>
• <a href="#">Façade</a>	<a href="#">Viridian Energy &amp; Environmental, LLC</a> ; <a href="#">Benson Industries</a> ; <a href="#">Permasteelisa Group</a>
• <a href="#">Façade Maintenance</a>	<a href="#">Lerch Bates</a>
• Geotechnical	<a href="#">Mueser Rutledge Consulting Engineers</a>
• Landscape	<a href="#">Mathews Nielsen Landscape Architects</a> ; <a href="#">Peter Walker Landscape Architects</a>
• Lighting	<a href="#">Brandston Partnership, Inc.</a> ; <a href="#">Claude Engle</a>
• Marketing	<a href="#">Wordsearch</a>
• Observatory	<a href="#">Legends</a> ; <a href="#">The Hettema Group</a>
• Roofing	<a href="#">Viridian Energy &amp; Environmental, LLC</a>
• Security	<a href="#">Ducibella Venter &amp; Santore</a>

• Traffic	Philip Habib & Associates
• Vertical Transportation	Jaros, Baum & Bolles
• Way Finding	Pentagram
• Wind	RWDI
<b>Material Supplier</b>	
• Cladding	Kuraray; POHL Group; CS Group Construction Specialties Company; Viracon
• Elevator	thyssenkrupp
• Fire Proofing	Grace Construction Products
• Interior Partition	Studco Australia Pty Ltd
• Sealants	Dow Corning Corporation; Sika Services AG
• Steel	ArcelorMittal

## About One World Trade Center

One World Trade Center recaptures the New York skyline, reasserts downtown Manhattan's preeminence as a business center, and establishes a new civic icon for the country. It is a memorable architectural landmark for the city and the nation, and connects seamlessly to the city with linkages to an extensive underground transportation network. Extending the long tradition of American ingenuity in high-rise construction, the design solution is an innovative mix of architecture, structure, urban design, safety, and sustainability.

The tower is a bold icon in the sky that acknowledges the adjacent memorial. While the memorial, carved out of the earth, speaks of the past and of remembrance, One World Trade Center speaks about the future and hope as it rises upward in a faceted form filled with, and reflecting, light. This tower evokes the slender, tapering triangular forms of great New York City icons such as the Chrysler Building and Empire State Building and replaces almost one quarter of the total office space lost on September 11, 2001 in a single building.

As the tower rises from a cubic base, its edges are chamfered back, resulting in a faceted form composed of eight elongated isosceles triangles. At its middle, the tower forms a perfect octagon in plan and then culminates in a glass parapet whose plan is a 150-foot-by-150-foot square, rotated 45 degrees from the base. Its overall effect is that of a crystalline form that captures an ever-evolving display of refracted light. As the sun moves through the sky or pedestrians move around the tower, the surfaces appear like a kaleidoscope, and change throughout the day as light and weather conditions change.

## One World Trade Center

### CTBUH Initiatives

#### Vertical Transportation: Ascent & Acceleration

12 Sep 2017 – CTBUH Research

#### Second CAF-CTBUH Event Examines Tall Building Safety

18 May 2017 – Event Report

#### Top Company Rankings: The World's 100 Tallest Buildings

13 Oct 2016 – CTBUH Research

[More Initiatives →](#)

### Research Papers

#### The Global Tall Building Picture: Impact of 2018

Jan 2019 – CTBUH Journal 2019 Issue I

#### Using Height-Relative Variables To Design Tall Buildings

Jul 2018 – CTBUH Journal 2018 Issue III

#### Towards Resource-Generative Skyscrapers

Jul 2018 – International Journal of High-Rise Buildings Volume 7 Number 2

[More Papers →](#)

### Videos

#### Five Minutes With: Carla Swickerath

9 Jul 2018 – Carla Swickerath, Studio Daniel Libeskind

#### Quay Quarter Tower: Humanizing the High-Rise

30 Oct 2017 – Kim Nielsen, 3XN

#### From San Diego to Guangzhou: The Story of Marketing Tall Buildings

19 Oct 2016 – William Murray, Wordsearch

[More Videos →](#)

### CTBUH Awards

#### Best Tall Building Americas 2015 Winner

CTBUH Awards 2015

To submit more information or donate images for this project, please use our [submission portal](#).