

# Burj Khalifa



## Identification

<b>EBN</b>	182168
<b>Name</b>	Burj Khalifa
<b>Alternative Name</b>	Burj Dubai
<b>Construction Type</b>	skyscraper
<b>Current Status</b>	existing [completed]



2010

## Location

<b>Continent Name</b>	Asie	<b>City Name</b>	Dubai
<b>Country Name</b>	Émirats Arabes Unis	<b>Address (as text)</b>	1, Burj Dubai Boulevard
<b>State Name</b>	Dubai	<b>Main Address</b>	1 Burj Dubai Boulevard

<b>Zone</b>	Downtown at Burj Dubai	<b>Latitude</b>	<a href="#">Contact us</a>
<b>Metro Area Name</b>	Dubai Metro Area	<b>Longitude</b>	<a href="#">Contact us</a>




## Map



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## Description

<b>Foundation System</b>	pile foundation	<b>Facade Color</b>	light gray
<b>Structural System</b>	buttressed core	<b>Architectural style</b>	modernism
<b>Structural Material</b>	steel concrete	<b>Main Usage</b>	 residential  commercial office  hotel
<b>Facade System</b>	curtain wall	<b>Side Usage</b>	restaurant
<b>Facade Material</b>	stainless steel		

## Spatial dimensions

<b>Height (structural)</b>	2 716,54 ft	<b>Workplaces</b>	<a href="#">Contact us</a>
<b>Height (tip)</b>	2 719,82 ft	<b>Parking places</b>	<a href="#">Contact us</a>
<b>Height (top floor)</b>	1 984,58 ft	<b>Escalators</b>	8
<b>Height (roof)</b>	2 425,97 ft	<b>Elevators</b>	57
<b>Height (main roof)</b>	2 236,96 ft	<b>Gross Floor Area (GFA)</b>	<a href="#">Contact us</a>

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**Floors (overground)** 163

## Years and costs

<b>Year (construction start)</b>	2004	<b>Building costs</b>	\$ 1 500 000 000
<b>Year (construction end)</b>	2010		

## Features & Amenities

- One of the city's famous buildings
- Double-decker elevators present
- Exercise facility is available
- Internal safety rooms available
- Rainwater is recycled
- Swimming pool is available

## Facts

- Burj Dubai became the world's tallest high-rise building on July 24, 2007, and the world's tallest self-supporting structure on September 12, 2007.
- Burj Dubai is the tallest man-made structure in the world, surpassing the KVLV-TV Tower in North Dakota as well as Warszawa Radio Mast, the previous tallest structure ever built.
- This is the first world's tallest building since prehistoric times to include residential space.
- The Burj Dubai had its name officially changed to Burj Khalifa during its grand opening in honor of the president of the U.A.E. H.H. Sheikh Khalifa bin Zayed al Nahyan.
- "Burj" is Arabic for "Tower."
- Although the building's shape resembles the bundled tube concept of the Willis Tower, it is structurally very different and is technically not a tube structure.
- The building was rotated 120 degrees to so that it would be least likely to be buffeted by desert windstorms. The tower's setbacks were also reoriented from counterclockwise to clockwise.
- The building sits on a concrete and steel podium with 192 piles descending to a depth of more than 50 metres (164 feet).
- A total of 45,000 cubic meters of concrete are used in the foundations with a weight in excess of 110,000 tonnes.
- Over 330,000 cubic meters of concrete and 31,400 metric tons of steel rebar was used at the completion of the tower.

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- The exterior cladding is of reflective glazing with aluminium and textured stainless steel spandrel panels with vertical tubular fins of stainless steel.
- The cladding system is designed to withstand Dubai's extreme summer temperatures.
- The condensation water collected from the air conditioning system equals to 20 Olympic-sized swimming pools per year and in turn, used for landscaping.
- Burj Dubai features sky lobbies on levels 43, 76 and 123. These spaces offer fitness and spa facilities. The lobbies on levels 43 and 76 each have a swimming pool and a recreational room for receptions and other gatherings.
- The highest residential floor will be level 109.
- An observation deck will occupy the 124th floor. A private club is on the 125th floor.
- Engineers working on the design considered installing triple-decker elevators, which would have been the first in the world, but in the end chose to use double-decker elevators.
- The maximum elevator speed is 600 m/min.
- The design by Skidmore Owings & Merrill replaces a plan to reuse the design for Grollo Tower, which was proposed in Melbourne a few years earlier.
- Designed by Adrian D. Smith, FAIA, RIBA design partner at Skidmore Owings & Merrill LLP.
- The triple-lobed footprint of the building is based on an abstracted desert flower native to the region.
- A subtle reference to the onion domes of Islamic architecture can be found in the building's silhouette when looking up at the lobes from near the base.
- The tower is situated on a man-made lake which is designed to wrap around the tower and provide dramatic views of it.

**Awards**

<b>Name</b>	<b>Category</b>	<b>Rank</b>	<b>Year</b>
Emporis Skyscraper Award		2	2010
Outstanding Structure Award			2011

**Involved companies**

*Architect.....*

**Skidmore, Owings & Merrill LLP**

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## Additional company data available for this building

<b>Acoustics Consultant</b>	<a href="#">Contact us</a>	<b>General Contractor</b>	<a href="#">Contact us</a>
<b>Bathroom Furnishings</b>	<a href="#">Contact us</a>	<b>Geotechnical Engineering</b>	<a href="#">Contact us</a>
<b>Civil Engineering</b>	<a href="#">Contact us</a>	<b>Glass Supplier</b>	<a href="#">Contact us</a>
<b>Communications Engineering</b>	<a href="#">Contact us</a>	<b>HVAC Supplier</b>	<a href="#">Contact us</a>
<b>Concrete Supplier</b>	<a href="#">Contact us</a>	<b>Interior Fit-out</b>	<a href="#">Contact us</a>
<b>Construction Company</b>	<a href="#">Contact us</a>	<b>Landscape Architect</b>	<a href="#">Contact us</a>
<b>Consultant</b>	<a href="#">Contact us</a>	<b>MEP Engineering</b>	<a href="#">Contact us</a>
<b>Developer</b>	<a href="#">Contact us</a>	<b>Project Management</b>	<a href="#">Contact us</a>
<b>Door Supplier</b>	<a href="#">Contact us</a>	<b>Pump Supplier</b>	<a href="#">Contact us</a>
<b>Elevator Engineering</b>	<a href="#">Contact us</a>	<b>Rebar Supplier</b>	<a href="#">Contact us</a>
<b>Elevator Supplier</b>	<a href="#">Contact us</a>	<b>Shell Construction</b>	<a href="#">Contact us</a>
<b>Environmental Consultant</b>	<a href="#">Contact us</a>	<b>Steel Supplier</b>	<a href="#">Contact us</a>
<b>Facade Maintenance System Supplier</b>	<a href="#">Contact us</a>	<b>Structural Engineering</b>	<a href="#">Contact us</a>
<b>Facade Supplier</b>	<a href="#">Contact us</a>	<b>Supplier</b>	<a href="#">Contact us</a>
<b>Facility Management</b>	<a href="#">Contact us</a>	<b>Tenant</b>	<a href="#">Contact us</a>
<b>Formwork Supplier</b>	<a href="#">Contact us</a>	<b>Wind Surveyor</b>	<a href="#">Contact us</a>
<b>Foundation Company</b>	<a href="#">Contact us</a>		

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