Burj Khalifa

**Identification**

<table>
<thead>
<tr>
<th>EBN</th>
<th>182168</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Burj Khalifa</td>
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<tr>
<td>Alternative Name</td>
<td>Burj Dubai</td>
</tr>
<tr>
<td>Construction Type</td>
<td>skyscraper</td>
</tr>
<tr>
<td>Current Status</td>
<td>existing [completed]</td>
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**Location**

<table>
<thead>
<tr>
<th>Continent Name</th>
<th>Asia</th>
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<tbody>
<tr>
<td>Country Name</td>
<td>United Arab Emirates</td>
</tr>
<tr>
<td>City Name</td>
<td>Dubai</td>
</tr>
<tr>
<td>State Name</td>
<td>Dubai</td>
</tr>
<tr>
<td>Address (as text)</td>
<td>1, Burj Dubai Boulevard</td>
</tr>
</tbody>
</table>

Dubai Metro Area

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## Description

- **Foundation System**: pile foundation
- **Facade Color**: light gray
- **Structural System**: buttressed core
- **Architectural style**: modernism
- **Structural Material**: steel, concrete
- **Main Usage**: residential, commercial office, hotel
- **Facade System**: curtain wall
- **Side Usage**: restaurant
- **Facade Material**: stainless steel

### Spatial dimensions

- **Height (structural)**: 2,716.54 ft
- **Height (tip)**: 2,719.82 ft
- **Workplaces**: Contact us
- **Parking places**: Contact us

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- **Phone**
  - Hamburg: +49 40 6094 6494 0
  - New York: +1 250 483 7089
  - Tokyo: sales@emporis.com

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### Burj Khalifa

#### Height (top floor)
- **Height**: 1,984.58 ft

#### Height (roof)
- **Height**: 2,425.97 ft

#### Height (main roof)
- **Height**: 2,236.96 ft

#### Floors (overground)
- **Floors**: 163

#### Escalators
- **Number**: 8

#### Elevators
- **Number**: 57

#### Gross Floor Area (GFA)
- **Area**: Contact us

### Years and costs

<table>
<thead>
<tr>
<th>Year (construction start)</th>
<th>Building costs</th>
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</thead>
<tbody>
<tr>
<td>2004</td>
<td>$ 1,500,000,000</td>
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</table>

<table>
<thead>
<tr>
<th>Year (construction end)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
</tr>
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</table>

### 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 is the tallest man-made structure in the world, surpassing the KVLY-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.

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• 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.
• 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Rank</th>
<th>Year</th>
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<tbody>
<tr>
<td>Emporis Skyscraper Award</td>
<td></td>
<td>2</td>
<td>2010</td>
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</tbody>
</table>

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### Involved companies

**Architect**

Skidmore, Owings & Merrill LLP  
224 South Michigan Avenue, Suite 1000  
60604 Chicago  
U.S.A.

- **Phone**: +1 312 554 9090  
- **Fax**: +1 312 360 4545  
- **Email**: somchicago@som.com

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**Additional company data available for this building**

<table>
<thead>
<tr>
<th>Category</th>
<th>Contact us</th>
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<th>Contact us</th>
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<tbody>
<tr>
<td>Acoustics Consultant</td>
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<td>General Contractor</td>
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<tr>
<td>Bathroom Furnishings</td>
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<td>Geotechnical Engineering</td>
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<td>Civil Engineering</td>
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<td>HVAC Supplier</td>
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<tr>
<td>Concrete Supplier</td>
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<td>Interior Fit-out</td>
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<tr>
<td>Construction Company</td>
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<td>Landscape Architect</td>
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<td>Consultant</td>
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<tr>
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<td>Pump Supplier</td>
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<td>Rebar Supplier</td>
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<td>Shell Construction</td>
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<td>Facade Maintenance System Supplier</td>
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<tr>
<td>Formwork Supplier</td>
<td>Contact us</td>
<td>Wind Surveyor</td>
<td>Contact us</td>
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