Burj Khalifa

Identification
EBN: 182168
Name: Burj Khalifa
Alternative Name: Burj Dubai
Construction Type: skyscraper
Current Status: existing [completed]

Location
Continent Name: Asia
Country Name: United Arab Emirates
State Name: Dubai
Metro Area Name: Dubai Metro Area
City Name: Dubai
Address (as text): 1, Burj Dubai Boulevard
## Burj Khalifa

### Zone
Downtown at Burj Dubai

### Main Address
1 Burj Dubai Boulevard

### Map
[Google Map]

### Description

<table>
<thead>
<tr>
<th>Foundation System</th>
<th>pile foundation</th>
<th>Facade Color</th>
<th>light gray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural System</td>
<td>buttressed core</td>
<td>Architectural style</td>
<td>modernism</td>
</tr>
<tr>
<td>Structural Material</td>
<td>steel concrete</td>
<td>Main Usage</td>
<td>residential, commercial office, hotel</td>
</tr>
<tr>
<td>Facade System</td>
<td>curtain wall</td>
<td>Side Usage</td>
<td>restaurant</td>
</tr>
<tr>
<td>Facade Material</td>
<td>stainless steel</td>
<td></td>
<td></td>
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</tbody>
</table>

### Spatial dimensions

<table>
<thead>
<tr>
<th>Height (structural)</th>
<th>2,716.54 ft</th>
<th>Workplaces</th>
<th>Contact us</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (tip)</td>
<td>2,719.82 ft</td>
<td>Parking places</td>
<td>Contact us</td>
</tr>
</tbody>
</table>

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Burj Khalifa

Height (top floor)    1,984.58 ft
Height (roof)        2,425.97 ft
Height (main roof)  2,236.96 ft
Floors (overground)  163

Escalators    8
Elevators     57

Gross Floor Area (GFA)

Years and costs
Year (construction start)  2004
Building costs           $ 1,500,000,000
Year (construction end)   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 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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</thead>
<tbody>
<tr>
<td>Emporis Skyscraper Award</td>
<td></td>
<td>2</td>
<td>2010</td>
</tr>
</tbody>
</table>

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<th>Name</th>
<th>Category</th>
<th>Rank</th>
<th>Year</th>
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<tbody>
<tr>
<td>Outstanding Structure Award</td>
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<td></td>
<td>2011</td>
</tr>
</tbody>
</table>

**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

**Additional company data available for this building**

<table>
<thead>
<tr>
<th>Acoustics Consultant</th>
<th>Contact us</th>
<th>General Contractor</th>
<th>Contact us</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bathroom Furnishings</td>
<td>Contact us</td>
<td>Geotechnical Engineering</td>
<td>Contact us</td>
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<tr>
<td>Civil Engineering</td>
<td>Contact us</td>
<td>Glass Supplier</td>
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<tr>
<td>Communications Engineering</td>
<td>Contact us</td>
<td>HVAC Supplier</td>
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<tr>
<td>Concrete Supplier</td>
<td>Contact us</td>
<td>Interior Fit-out</td>
<td>Contact us</td>
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<tr>
<td>Construction Company</td>
<td>Contact us</td>
<td>Landscape Architect</td>
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<tr>
<td>Consultant</td>
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<td>MEP Engineering</td>
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<tr>
<td>Developer</td>
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<tr>
<td>Door Supplier</td>
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<td>Pump Supplier</td>
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<td>Elevator Engineering</td>
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<td>Rebar Supplier</td>
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<td>Elevator Supplier</td>
<td>Contact us</td>
<td>Shell Construction</td>
<td>Contact us</td>
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<td>Environmental Consultant</td>
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<td>Steel Supplier</td>
<td>Contact us</td>
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<td>Facade Maintenance System Supplier</td>
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<td>Structural Engineering</td>
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<td>Facade Supplier</td>
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<td>Supplier</td>
<td>Contact us</td>
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<tr>
<td>Facility Management</td>
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<td>Tenant</td>
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<td>Formwork Supplier</td>
<td>Contact us</td>
<td>Wind Surveyor</td>
<td>Contact us</td>
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**Foundation Company**  
[Contact us]

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