

# Taipei 101



## Identification

<b>EBN</b>	100765
<b>Name</b>	Taipei 101
<b>Alternative Name</b>	Taipei Financial Center, ##101
<b>Construction Type</b>	skyscraper
<b>Current Status</b>	existing [completed]



## Location

<b>Continent Name</b>	Asia	<b>City Name</b>	Taipei
<b>Country Name</b>	Taiwan	<b>District (1st level)</b>	Xinyi [Hsinyi]
<b>Metro Area Name</b>	Taipei Metro Area	<b>Address (as text)</b>	8, Sung-Chih Road



## Map



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## Description

<b>Structural System</b>	core plus outrigger	<b>Facade Color</b>	green
<b>Structural Material</b>	composite structure	<b>Architectural style</b>	oriental revivalism
<b>Facade System</b>	curtain wall	<b>Main Usage</b>	commercial office
<b>Facade Material</b>	glass	<b>Side Usage</b>	shopping center  restaurant club house  parking

## Spatial dimensions

<b>Height (structural)</b>	1,670.6 ft	<b>Floors (underground)</b>	5
<b>Height (tip)</b>	1,670.6 ft	<b>Floors (overground)</b>	101
<b>Height (top floor)</b>	1,440.94 ft	<b>Parking places</b>	1,800
<b>Height (roof)</b>	1,473.75 ft	<b>Escalators</b>	50
<b>Height (main roof)</b>	1,473.75 ft	<b>Elevators</b>	61
<b>Height (obs. deck)</b>	1,285.43 ft	<b>Gross Floor Area (GFA)</b>	<a href="#">Contact us</a>
<b>Height (floor-ceiling)</b>	9.35 ft	<b>Usable Floor Area (UFA)</b>	<a href="#">Contact us</a>

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## Years and costs

<b>Year (construction start)</b>	1999	<b>Building costs</b>	\$ 1,760,000,000
<b>Year (construction end)</b>	2004		

## Features & Amenities

- One of the city's famous buildings
- Double-decker elevators present
- Observation floor is available
- Tuned mass damper is installed

## Facts

- The elevators are the fastest in the world, rising at 1010 meters per minute (60.48 km/hour) and descending at 610 m/min (36.6 km/hour). The top speeds are 34 percent faster than the previous world's fastest elevators in Yokohama Landmark Tower.
- Taipei 101 is currently the second tallest building in the world.
- The highest section of the spire was installed on 9 October 2003. At the official ceremony on 17 October, Taipei's mayor Ma Ying-jeou fastened a golden bolt to signify the official topping-out.
- Before the spire was installed there was a separate topping-out ceremony on July 1st, 2003 for completion to the roof level. The president of Taiwan and the mayor of Taipei participated in the event.
- This is one of the few buildings in the world equipped with double-deck elevators.
- Contained within is a circular 660-tonne tuned mass damper to counter seismic and wind-induced movement. It is constructed from 41 steel plates, is suspended from eight steel cables, rests on eight viscous dampers and can move five feet laterally in any direction. It is the largest and heaviest of its type in the world.
- The tower's spire contains two, 4.5-tonne tuned mass dampers to reduce wind-induced fatigue.
- At the time of construction, the building held the record for the greatest height to which concrete had been pumped.
- The lift brakes are ceramic rather than steel (as found in high-performance cars) for greater efficiency.
- Taipei 101 was the world's first skyscraper to break the half-kilometer mark in height.

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- The Taiwan Stock Exchange rents 7 floors in the building.
- The main damper is visible from the restaurant and bar which encircles the space around the ball.
- The design is inspired by traditional Chinese architecture, with a shape resembling a pagoda. The sectioned tower is also inspired by the bamboo plant, which is a model of strength, resilience, and elegance.
- The tower's design specifications are based on the number "8", a lucky number in traditional Chinese culture; it features 8 upward-flaring sections, and is supported by 8 supercolumns. The Jin Mao Tower in Shanghai also employs this numerology in its design.
- Most aspects of the design, layout and planning were reviewed and approved by a Feng Shui master.
- Each elevator is designed with an aerodynamic body, pressurization and emergency braking systems, and the world's first triple-stage anti-overshooting system. The cost for each elevator is over \$US 2 million.
- Exterior construction elevators and the construction elevator shaft were fully disassembled in late February of 2004.
- Inside the base of the tower is the large Taipei 101 Mall, which opened before the tower on November 13th, 2003.
- Taipei 101 holds the world record in three of the Council on Tall Buildings and Urban Habitat's height categories: tallest to the structural top, tallest to the roof, and highest occupied floor.
- The outdoor observation deck is the highest in the world. It is expected to be surpassed by the outdoor deck in the Shanghai World Financial Center.
- This was the first world's tallest building completed in the 21st century. The next will most likely be Burj Khalifa in the United Arab Emirates.
- The 89th floor holds an indoor observation area, and an outdoor observation deck is located on the 91st floor.

## Awards

Name	Category	Rank	Year
Emporis Skyscraper Award		1	2004

## Involved companies

Architect.....

### C.Y. Lee & Partners

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Taiwan

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Fax +886 2 27811528  
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Hoist Supplier (construction).....

**Alimak Hek Group AB**

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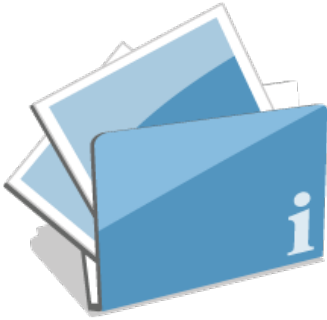
**Additional company data available for this building**

<b>Construction Company</b>	<a href="#">Contact us</a>	<b>Facade Supplier</b>	<a href="#">Contact us</a>
<b>Cooling Installation</b>	<a href="#">Contact us</a>	<b>Fire Protection Engineering</b>	<a href="#">Contact us</a>
<b>Damper Consultant</b>	<a href="#">Contact us</a>	<b>Geotechnical Engineering</b>	<a href="#">Contact us</a>
<b>Damper Supplier</b>	<a href="#">Contact us</a>	<b>Glass Supplier</b>	<a href="#">Contact us</a>
<b>Developer</b>	<a href="#">Contact us</a>	<b>Lighting Consultant</b>	<a href="#">Contact us</a>
<b>Elevator Engineering</b>	<a href="#">Contact us</a>	<b>MEP Engineering</b>	<a href="#">Contact us</a>
<b>Elevator Supplier</b>	<a href="#">Contact us</a>	<b>Project Management</b>	<a href="#">Contact us</a>
<b>Escalator Supplier</b>	<a href="#">Contact us</a>	<b>Real Estate Agent</b>	<a href="#">Contact us</a>
<b>Facade Consultant</b>	<a href="#">Contact us</a>	<b>Steel Supplier</b>	<a href="#">Contact us</a>
<b>Facade Designer</b>	<a href="#">Contact us</a>	<b>Structural Engineering</b>	<a href="#">Contact us</a>
<b>Facade Engineering</b>	<a href="#">Contact us</a>	<b>Wind Surveyor</b>	<a href="#">Contact us</a>
<b>Facade Maintenance System Supplier</b>	<a href="#">Contact us</a>		

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