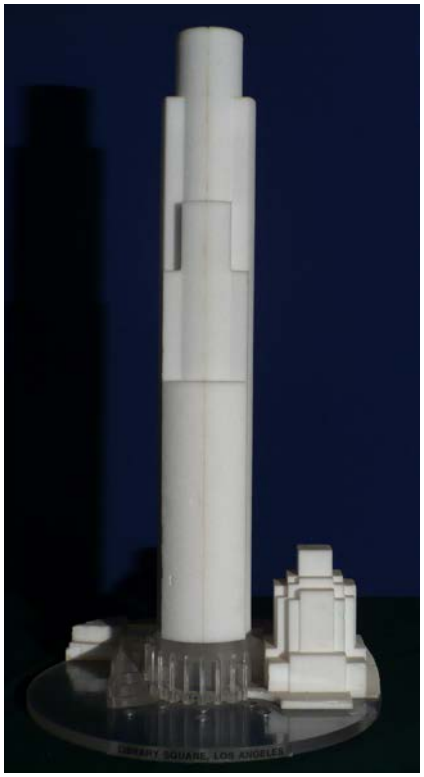
Library Square, Los Angeles, California

Wind Engineering Study

Pressure Model



Aeroelastic Model

Client	Engineers	Architect
IM Pei & Partners	CBM Engineers Inc	Pei Cobb Freed & Partners
Height	**Year Studied**	**Model Scale**
310 meters	1987	1:500

The Project

The 73 storey commercial office tower when constructed was the tallest building in California. It was known as Library Tower due to its location across the street from the Los Angeles Central Library. It has since been renamed to the U.S. Bank Tower in 2003.

The tower has a large glass "crown" at its top that is illuminated at night.

The Wind Tunnel Studies

A pedestrian level wind study examined 12 locations in and around the site.

The study of wind-induced cladding pressures was carried out for 831 measurement locations distributed over the tower and associated low-rise.

A two-degree-of-freedom aeroelastic model was used to determine the information on wind-induced structural loads and building motions.

The Boundary Layer Wind Tunnel Laboratory

Western

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