Hyatt Center, Chicago, IL, USA

Wind Engineering Study

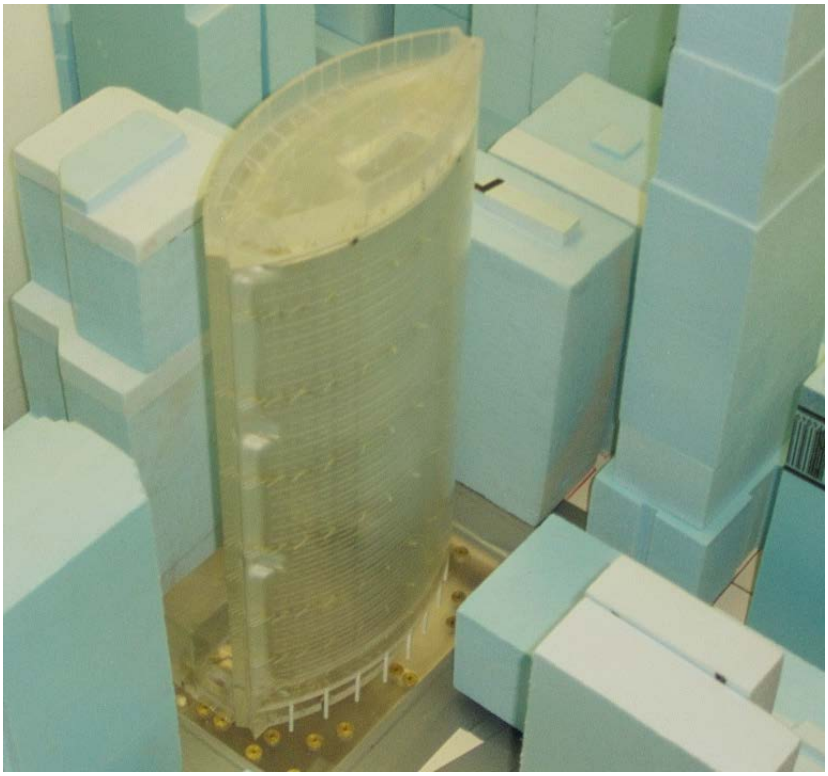

Image Credit: Pei Cobb Freed and Partners

Client	*Structural Engineer*	*Architect*
Halvorson and Partners	Halvorson and Partners	Pei Cobb Freed and Partners
Height	*Year Tested*	*Model Scale*
680 feet	2002	1:400

The Project

The Hyatt Center in Chicago, Illinois consists of a 48-storey office tower. The site is located in downtown Chicago and is bounded by South Wacker Dr., South Franklin St., West Arcade Place and West Monroe St.

The tower will have a total floor area of approximately 1,755,000 square feet. There is a parking area at ground level and two below-grade level. The main features of this building are the curved surfaces of stainless steel and glass.

The Wind Tunnel Studies

The wind engineering studies for Hyatt Center included a study of the wind-induced structural loads and responses, local cladding pressure loads and pedestrian level winds.

The study of overall structural loads and responses was determined for the office tower using the force balance technique.

A study of wind-induced cladding pressures was carried out for 542 measurement locations distributed over the tower.

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