Santa Fé Pads Tower, Mexico City, Mexico

Wind Engineering Study

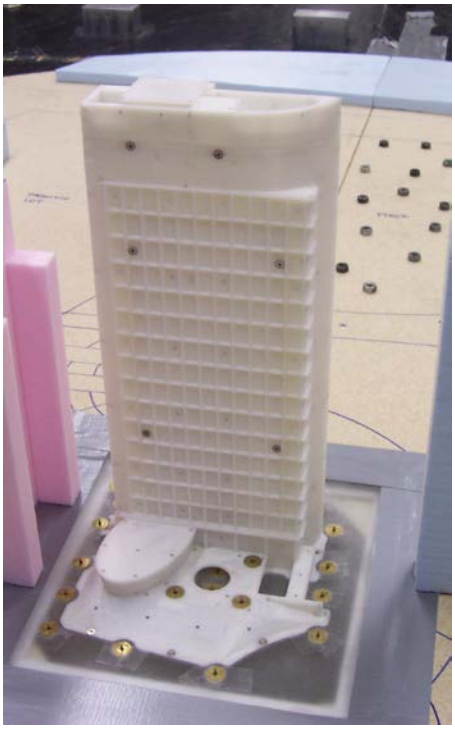

Image Credit: Grupo Arquitectoma S.A de C.V

Client	*Structural Engineer*	*Architect*
Grupo Arquitectoma S.A de C.V	Grupo Arquitectoma S.A de C.V	Grupo Arquitectoma S.A de C.V
Height	*Year Tested*	*Model Scale*
140m	2004	1:400

The Project

The Santa Fé Pads Tower in Mexico City, Mexico consists of a 37-storey building with mixed occupancy. The site is located in Cuajimalpa District and is bounded by the highway Mexico-Toluca, Santa Fé Ave., Luis Barragán St., and Juan Segura St.

The tower will accommodate 241 residential units with about 120 m^2 per unit. The three top levels are destined for office use with an area of approximately 2,000 m^2. A parking complex will be constructed one level below grade.

The Wind Tunnel Studies

The wind engineering studies for Santa Fé Pads Tower included a study of the wind-induced structural loads and responses and local cladding pressure loads.

The study of overall structural loads and responses was determined for the condominium tower using the pressure integration technique.

A study of wind-induced cladding pressures was carried out for 289 measurement locations distributed over the tower.

The Boundary Layer Wind Tunnel Laboratory

Western

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