Roxas Triangle, Manila, Philippines

Wind Engineering Study

Image Credit: Skidmore, Owings & Merrill LLP

Client	*Structural Engineer*	*Architect*
Skidmore, Owings & Merrill LLP	Ayala Land Inc. Construction Management Group	Skidmore, Owings & Merrill LLP
Height	*Year Tested*	*Model Scale*
180 m	2001	1:400

The Project

The Roxas Triangle Residential Condominiums in Manila, Philippines consists of two 50-storey towers connected by a common podium. The towers accommodate approximately 372 units. The site is located in the Makati District in Manila and is bounded by Ayala Avenue, Makati Avenue and Paseo de Roxas.

The towers sit atop a podium containing amenities and parking for over 3,000 cars.

The Wind Tunnel Studies

The wind engineering studies for Roxas Triangle included a study of the wind-induced structural loads and responses, local cladding pressure loads and pedestrian level wind speeds.

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 443 measurement locations distributed over the two towers and podium.

The Boundary Layer Wind Tunnel Laboratory

Western

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