Nam Van Lake Lot C12, Macau, China

Wind Engineering Study

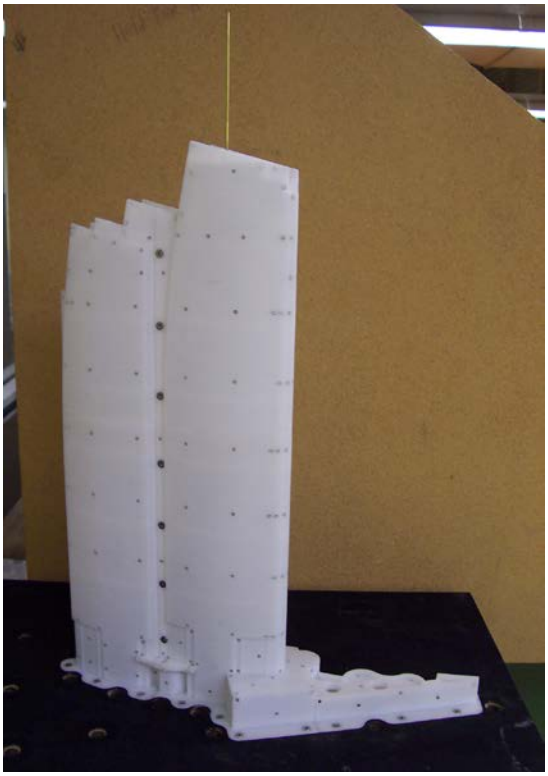

Image Credit: DLN Architects Ltd.

Client	*Structural Engineer*	*Architect*
Dennis Lau & Ng Chun Man Architects and Engineers (H.K.) Ltd.	Maunsell Structural Consultants Ltd.	Dennis Lau & Ng Chun Man Architects and Engineers (H.K.) Ltd.
Height	*Year Tested*	*Model Scale*
150m	2006	1:400

The Project

The Nam Van Lake development in Macau, China consists of a single 43-storey residential tower. The site is located south of Nam Van Lake and is bounded by Nam Van Lake and Dr. Sun Yat-Sen Avenue.

The ground level offers a fitness room, club room, pool and spa. A parking complex will be constructed occupying four levels below grade. There is an architectural feature 50m high above the roof.

The Wind Tunnel Studies

The wind engineering studies for Nam Van Lake Lot C12 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 condominium tower using the force balance technique.

A study of wind-induced cladding pressures was carried out for 361 measurement locations distributed over the tower.

The Boundary Layer Wind Tunnel Laboratory

Western

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FSTB/ 255 /December 2006 /PSQ
Last Printed: March 19, 2009