Admiral at the Lake, Chicago, Illinois

Wind Engineering Study

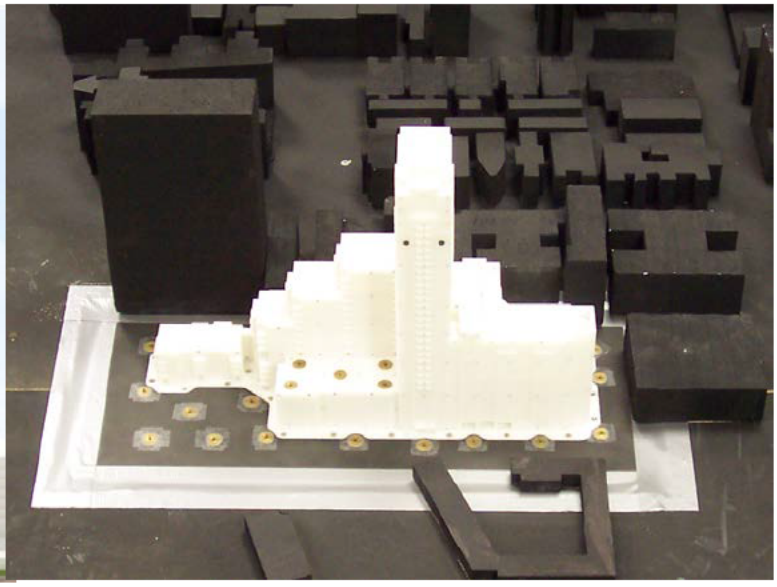

Photo by Perkins + Will

Client	Engineers	Architect & Engineers
The Admiral at the Lake	Thornton Tomasetti	Perkins + Will
Height	**Year Studied**	**Model Scale**
366 ft	2006	1:400

The Project

The development consists of a 31 storey residential tower and a health care facility. This retirement community living center contains a panoramic view of Lake Michigan.

.

The Wind Tunnel Studies

The wind engineering studies for the development 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 for the tower were determined using the loads from pressures technique.

The study of wind-induced cladding pressures was carried out for 503 measurement locations distributed over the tower and associated low-rise.

The pedestrian level wind study examined 29 locations in and around the site.

The Boundary Layer Wind Tunnel Laboratory

Western

The Boundary Layer Wind Tunnel Laboratory
The University of Western Ontario
Faculty of Engineering, London, Ontario
Canada, N6A 5B9 Tel: (519) 661-3338 Fax: (519) 661-3339
Internet: www.blwtl.uwo.ca E-mail: info@blwtl.uwo.ca

FSTB/ 346 /March 2010 / RTE
Last Printed: March, 17, 2010