Site 23 & 24 Battery Park City, New York, NY

Wind Engineering Study

Client	*Structural Engineer*	*Architect*
Roseland Property Company	WSP Cantor Seinuk Structural Engineers	Costas Kondylis and Partners
Height	*Year Tested*	*Model Scale*
Site 23 – 268 feet Site 24 – 359 feet	2008	1:400

The Project

Site 23 & 24 Battery Park City in New York City consists of two towers connected by the ground floor. The Site 23 tower is a 22-storey residential condominium and the Site 24 tower is a 32-storey residential condominium. The site is located at 200 and 300 North End Avenue, between Murray and Warren streets.

The Site 23 building will be home to nearly 300,000 square feet and be completed by late 2010. The Site 24 building will be 460,000 square feet and open in 2011. The two residential buildings will share a single floor plate to accommodate a parking garage and community centre at their base.

The Wind Tunnel Studies

The wind engineering studies for Site 23 & 24 Battery Park City 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 using the pressure integration technique whereby the point pressure measurements were taken at all locations simultaneously.

A study of wind-induced cladding pressures was carried out for 651 measurement locations distributed over the two towers: 311 on the building at Site 23; 340 on the building at Site 24.

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/ 326 /March 2009 / JHO
Last Printed: March 18, 2009