UN International School, New York, NY, USA

Wind Engineering Study

Image Credit: Skidmore, Owings & Merrill LLP

Client	Structural Engineer	Architect
Gilsanz, Murray, Steficek, LLP	Gilsanz, Murray, Steficek, LLP	Skidmore, Owings & Merrill LLP
Height	**Year Tested**	**Model Scale**
Building – 70 feet (to main roof)	2008	1:300

The Project

The UN International School development in New York City consists of a 5-storey institutional building. The site is located in Manhattan and is bounded by the East River, East 25th Street and Franklin Delano Roosevelt Drive.

The project consists of an existing building that will be renovated and upgraded. The first phase will include the renovation of the entry way to the school, the lobby and cafeteria; the second phase will focus on a new sports complex on the roof.

The Wind Tunnel Studies

The wind engineering studies for the UN International School included a study of the wind-induced structural loads and responses and local cladding pressure loads. Both existing and proposed configurations of the building were tested.

A study of wind-induced cladding pressures was carried out for up to 222 measurement locations distributed over each of the two tested building geometries.

The overall loads and responses were determined for both the existing and proposed building configurations using the pressure integration technique.

Alan G. Davenport Wind Engineering Group

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

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