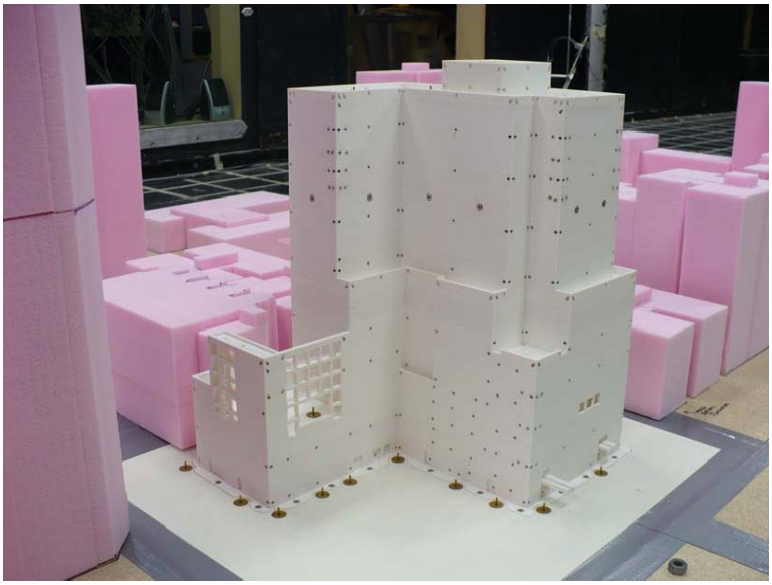
Museum for African Art, New York, NY

Wind Engineering Study



Client	Engineers	Architect
Brickman Associates	Rosenwasser Grossman, Consulting Engineers	SLCE Architects
Height	**Year Studied**	**Model Scale**
230 ft	2008	1:400

The Project

The 19 storey building is a mixed use museum and residential tower. The development includes many patio and terrace areas including a large roof garden and large free standing wall with open grillage.

The Wind Tunnel Studies

The wind engineering studies for the museum 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 towers were determined using the loads from pressures technique.

The study of wind-induced cladding pressures was carried out for 569 measurement locations distributed over the building.

The pedestrian level wind study examined 24 locations in and around the site, including patio, terrace and roof top.

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/ 348 /March 2010 / RTE
Last Printed: March 17, 2010