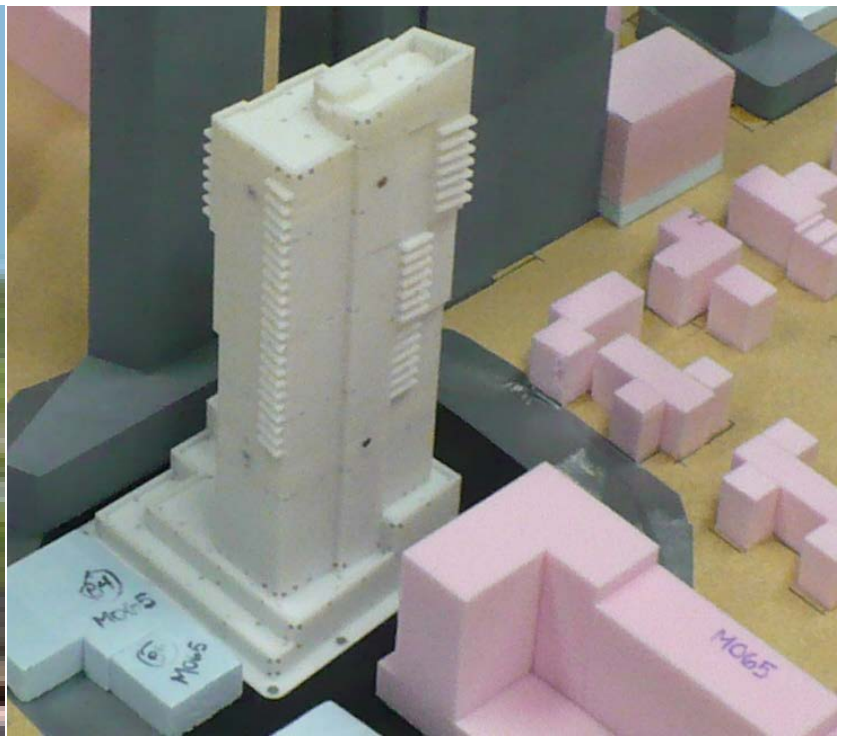
170 Myrtle Avenue, Brooklyn, New York

Wind Engineering Study



Client	Structural Engineer	Architect
Red Apple Group - Myrtle Ave. Development LLC	Goldstein Associates Consulting Engineers PC	Dattner Architects
Height	**Year Tested**	**Model Scale**
430 feet	2007	1:400

The Project

The 170 Myrtle Avenue development in Brooklyn, New York contains 660 apartments in a 37-story tower, commercial space in the podium and sub-grade parking. The upper floors cantilever beyond the main building line, creating larger apartments and a distinctive architectural expression.

The site is located on the south side of Myrtle Avenue between Ashland and Prince Street.

The Wind Tunnel Studies

The wind engineering studies for the Myrtle Avenue project included wind-induced structural loads and responses and local cladding pressure loads.

The study of overall structural loads and responses was determined using the force balance technique.

A study of wind-induced cladding pressures was carried out for 409 measurement locations distributed over the tower and podium.

The Boundary Layer Wind Tunnel Laboratory

Western

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