Avalon on the Sound, New Rochelle, New York, NY, USA

Wind Engineering Study

Client	Structural Engineer	Architect
Israel Berger & Associates	WSP Cantor Seinuk Group	SLCE Architects
Height	**Year Tested**	**Model Scale**
404 feet	2005	1:400

The Project

Avalon on the Sound is an “L” shaped apartment tower which measures 155' by 260' by 404' in height. It is a 25-storey tower consisting of apartments, a covered parking garage, swimming pool and on-site retail shopping. It is located in Westchester County's premier luxury community and is only minutes away from Long Island.

The Wind Tunnel Studies

The wind engineering studies for Avalon on the Sound included a study of the wind-induced structural loads and responses as well as local cladding pressure loads.

The study of overall structural loads and responses was determined for the apartment tower using the pressure integration technique.

A study of wind-induced cladding pressures was carried out for 484 measurement locations distributed over the tower.

The Boundary Layer Wind Tunnel Laboratory

Western

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FSTB/ 299 /April 2008 / DJG
Last Printed: March 19, 2009