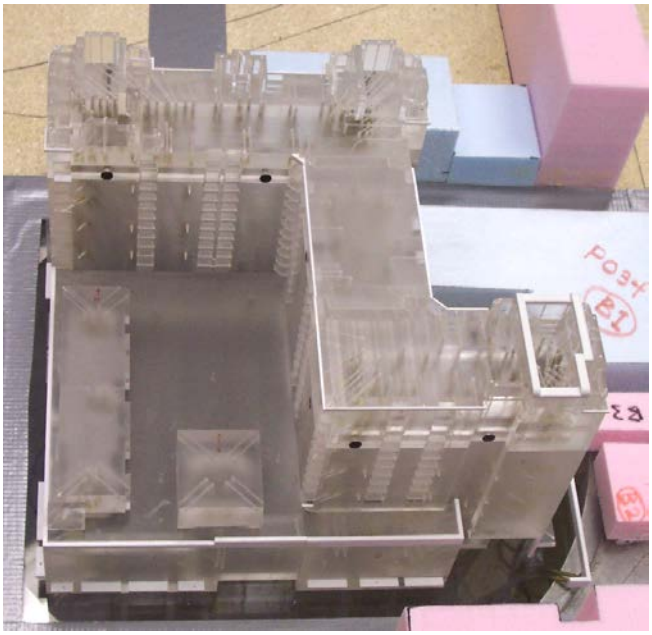
Paramount on Lake Eola, Orlando, FL, USA

Wind Engineering Study



Client	Structural Engineer	Architect
Looney Ricks Kiss Architects Inc., Memphis, Tennessee	Alliance Structural Engineers, Houston, Texas	Looney Ricks Kiss Architects Inc., Memphis, Tennessee
Height	**Year Tested**	**Model Scale**
16 storey, 208 ft	2005	1:400

The Project

The Paramount on Lake Eola project consists of a 16-storey, mixed-purpose 208 ft tall building. Designed by Looney Ricks Kiss Architects, it features floor-to-ceiling glass windows, radius walls and a 15,000 square-foot pool deck. The typical floor plan is close to a Z-shape on top of a roughly rectangular shaped podium.

The building is situated between Central Avenue to the north and East Pine Street to the south. Lake Avenue is on the west side of the site, and Osceola Avenue is located on the east.

The Wind Tunnel Studies

The wind engineering studies for the Paramount on Lake Eola project included a study of the wind-induced structural loads and responses, and local cladding pressure loads.

The study of wind-induced cladding pressures was carried out for 505 measurement locations distributed over the project.

Information on the overall structural loads and responses was determined for the building from detailed simultaneous pressure measurements.

The Boundary Layer Wind Tunnel Laboratory

Western

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