Perdido Gardens, Escambia County, Florida, USA

Wind Engineering Study

Building Image

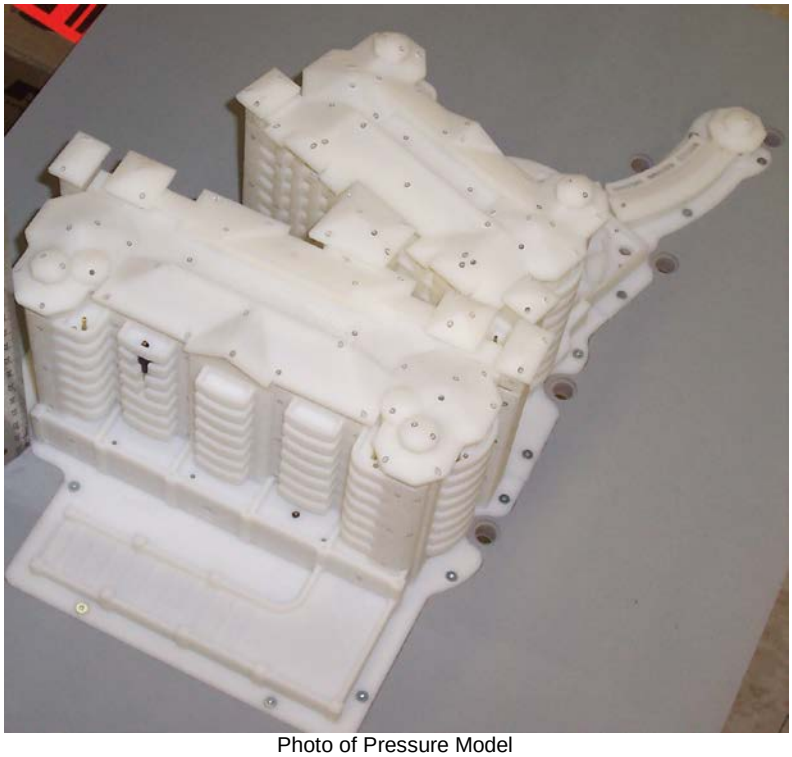

Photo of Pressure Model

Client	*Structural Engineer*	*Architect*
HKS Architects Inc.	Hatch Mott Macdonald	Benton Properties Florida LLC
Height	*Year Tested*	*Model Scale*
Towers A & B – 125 feet	2005	1:300

The Project

The Perdido Gardens development in Escambia County, Florida consists of two towers connected by a common 2-storey podium. The towers are an 8-storey residential condominium complex. The site is located in the Perdido Key area and is bounded by Perdido Key Drive, Semmes Street, River Road and Lost Key Street.

The Wind Tunnel Studies

The wind engineering studies for the Perdido Gardens development included a study of local cladding pressure loads and pedestrian level winds.

A study of wind-induced cladding pressures was carried out for 417 measurement locations distributed over the two towers and podium.

A study of pedestrian level wind speeds was carried out for 33 locations around the site and on some high balconies.

The Boundary Layer Wind Tunnel Laboratory

Western

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FSTB/ 279 /March 2008 / ZX
Last Printed: March 19, 2009