Pointe Simon Business Center, Fort-de-France, Martinique

Wind Engineering Study

Image Credit: pointe-simon.com

Client	*Structural Engineer*	*Architect*
Ray Architects Engineers	Ray Architects Engineers	Ray Architects Engineers
Height	*Year Tested*	*Model Scale*
Office Tower – 90m Condo Tower – 31m Hotel Tower – 30m	2005	1:400

The Project

The Pointe Simon development in Fort-de-France, Martinique consists of a 21-storey office tower, an 8-storey condominium and an 8-storey hotel connected by a common podium. The site is located in the Pointe Simon dock area and is bounded by Flammands Bay and Alfassa Boulevard.

The project will offer fine dining restaurants, a ballroom, spa and retail space at podium level.

The Wind Tunnel Studies

The wind engineering studies for Pointe Simon included a study of the wind-induced structural loads and responses, local cladding pressure loads and pedestrian level wind speeds.

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

A study of wind-induced cladding pressures was carried out for 521 measurement locations distributed over the tower and the two low-rises.

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