Ministry of Finance, Port of Spain, Trinidad

Wind Engineering Study

Image Credit: Gillespie & Steel Ltd.

Client	*Structural Engineer*	*Architect*
Consulting Engineers Partnership Ltd.	Consulting Engineers Partnership Ltd.	Gillespie & Steel Ltd.
Height	*Year Tested*	*Model Scale*
80m	2004	1:400

The Project

The Ministry of Finance in Port of Spain, Trinidad consists of a single 18-storey building with an adjacent 7-storey low-rise. The site is located downtown and is bounded by Edwards, Queen, Saint Vincent and Treasury streets.

This institutional building will be the new house of the Ministry of Finance in Trinidad. The auditorium building will be connected to the main tower by a pedestrian bridge.

The Wind Tunnel Studies

The wind engineering studies for Ministry of Finance 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-rise building using the pressure integration technique.

A study of wind-induced cladding pressures was carried out for 406 measurement locations distributed over the tower and the low-rise.

The Boundary Layer Wind Tunnel Laboratory

Western

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