Torre Almirante, Rio de Janeiro, Brazil

Wind Engineering Study

Client	Engineers	Architect
Escritorio Tecico Julio Kassoy E. Mario Franco Eng.	Thornton Thomasetti	Robert A. M. Stern
Height	**Year Studied**	**Model Scale**
120m	2002	1:400

The Project

The 36 storey office tower is located in downtown Rio de Janeiro. The facade's illumination system is capable of generating 16 million different colours.

The Wind Tunnel Studies

The wind engineering studies for the tower included a local cladding pressure study and overall structural loads and responses.

The study of overall structural loads and responses for the tower were determined using the force balance technique.

The study of wind-induced cladding pressures was carried out for 310 measurement locations distributed over the Tower.

A flow visualization study was carried out to examine the potential for exhaust fume entrainment and to observe overall flow characteristics.

The Boundary Layer Wind Tunnel Laboratory

Western

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