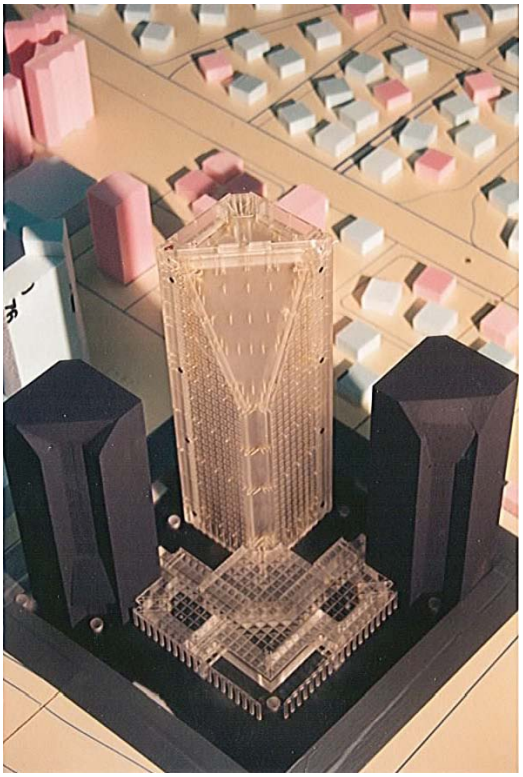
CENU, Sal Paulo, Brazil

Wind Engineering Study



Client	Engineers	Architect
Tishman Speyer-Metodo.	Engenheiro Consultores Associados Consultix S/C Ltda	Botti Rubin Arquitetos Associates
Height	**Year Studied**	**Model Scale**
North Tower 158m	1996, 1998	1:400

The Project

The complex Centro Empesarial Nacoes Unidas (CENU) consists of three towers, the West Tower, North Tower and East Tower. The tallest is the North tower which is a 42 storey office tower. The wind tunnel study examined both the North Tower (Torre Norte) and the East Tower (Torre Leste). The East Tower is a 32 storey hotel tower, The site is located on the United Nations Avenue.

The Wind Tunnel Studies

The wind engineering studies for the tower included a local cladding pressure study, overall structural loads and responses, pedestrian level winds and wind driven rain.

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

The study of wind-induced cladding pressures was carried out for 473 measurement locations distributed over the North Tower and associated low-rise and 317 over the East Tower.

A pedestrian level wind study examined 16 locations in and around the site.

The Boundary Layer Wind Tunnel Laboratory

Western

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