First International Bank, Tel-Aviv

Wind Engineering Study

Wind Tunnel Pressure Model

Architectural Model

Client	*Engineer*	*Architect*
First International Bank of Tel-Aviv	S. Ben-Abraham Engineers Ltd.	Pei Cobb Freed and Partners
Height	*Year Tested*	*Model Scale*
129.3m	2000	1:400

The Project

The tower rises to a height of 129.3 meters above grade and is located in Tel-Aviv. This makes the tower the highest point in the area.

The tower has a two storey low-rise which houses a branch bank and is connected to the main tower.

The main feature is the undercut entranceway which extends to the west.

The overall shape has historically created significant cladding loads and at these areas detailed instrumentation was installed. These areas did result in the highest cladding loads.

The Wind Tunnel Studies

Information on cladding pressures was determined for the tower and associated low rise. Measurements were taken at over 350 locations.

Pedestrian level wind speeds were determined at 18 locations, emphasizing the main entrance and courtyard area.

Information on structural loads and building motions for the tower was determined by integrating the simultaneous pressures to yield load time histories.

The Boundary Layer Wind Tunnel Laboratory

Western

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