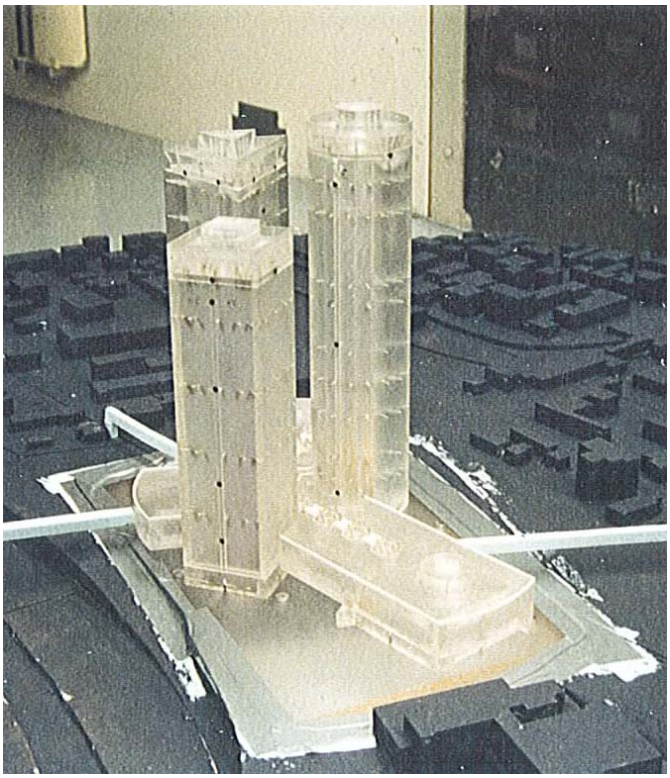
Azrieli Towers, Tel Aviv, Israel

Wind Engineering Study



Client Canit Hashalom Investments Ltd.		*Architect* Yasky & Partners Architects
Height 186 m, 169m, 154m	*Year Studied* 1995, 2001	*Model Scale* 1:400

The Project

The development was initially know as the Shalom Development but was subsequently renamed. The Azrieli Center as it is now known is a mixed use complex of three skyscrapers and at it's base lies a large shopping mall. The three towers consist of the Square Tower with 42 floors at 154m, the Triangular Tower with 46 floors at 169m and the Circular Tower with 49 floors at 186m. The Circular Tower at the time of construction was the tallest building in Israel.

The Wind Tunnel Studies

The wind engineering studies for the towers included a study of the wind-induced structural loads and responses, local cladding pressure loads and pedestrian level winds. The additional testing in 2001 was due to the proposed different height changes for the Square Tower from those initially studied.

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

The study of wind-induced cladding pressures was carried out for 702 measurement locations distributed over the towers and associated low-rise.

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

The Boundary Layer Wind Tunnel Laboratory

Western

The Boundary Layer Wind Tunnel Laboratory
The University of Western Ontario
Faculty of Engineering, London, Ontario
Canada, N6A 5B9 Tel: (519) 661-3338 Fax: (519) 661-3339
Internet: www.blwtl.uwo.ca E-mail: info@blwtl.uwo.ca

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