Maju KL Selatan, Kuala Lumpur, Malaysia

Wind Engineering Study

Client	Structural Engineer	Architect
MAJU RETREAD SDN BHD	Structural Affiliates International Inc	-
Height	**Year Tested**	**Model Scale**
200m	2015	1:400

The Project

Located in Kuala Lumpur, Malaysia, the development consists of 7 rectangular towers, each approximately 200m tall with 100m by 20m plan dimensions, atop a large, complex 8 story podium.

The towers are structurally connected in 3 groups, separated by expansion joints (2 groups of 2 towers and one group of 3 towers).

The Wind Tunnel Studies

The wind engineering studies for Maju KL Selatan included a study of the wind-induced structural loads and responses, local cladding pressure loads, and pedestrian level wind environment.

The study of overall structural loads and responses, cladding pressures and pedestrian level wind speeds were carried out using a pressure model containing 1263 measurement locations distributed over the seven towers and podium.

A flow visualization study was conducted to investigate the overall airflow characteristics and locate regions of flow separation, re-attachment and vortex formation.

The Boundary Layer Wind Tunnel Laboratory

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