Phnom Penh Residence & Commercial Complex,Cambodia

Wind Engineering Study

Image courtesy by TE Solution

Client	*Structural Engineer*	*Architect*
MIDAS Information Technology	MIDAS Information Technology	Dong Il Architects & Engineers
Height	*Year Studied*	*Model Scale*
Tower A – 194.5 meter	2008	1:400

The Project

The Phnom Penh Residence & Commercial Complex in Phnom Penh, Cambodia consists of three towers connected by a 7-storey podium. All three towers are a 46-storey residential condominium. The site is located at 11°32'55"N and 104°56'5"E along Bassac River and across from Koh Pich Island.

The residential condominium complex will accommodate 983 units in total. As well, a parking complex will be constructed at the podium (2nd to 6th floor) and one level below grade. The commercial complex (market/community) will be located on the 1st and 7th floors.

The Wind Tunnel Studies

The wind engineering studies for Phnom Penh Residence & Commercial Complex included a study of the wind-induced structural loads and responses.

The analyses were carried out using wind tunnel data obtained from TE Solution (a wind tunnel lab in Korea) in a 1:400 scale force balance model test and using the BLWTL standard force balance analysis method with the Phnom Penh wind climate model determined by BLWTL.

The Boundary Layer Wind Tunnel Laboratory

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