DTK Condos, Kitchener, Canada

Wind Engineering Study

Image Credit: DTK Condos.

Client	*Structural Engineer*	*Architect*
IN8 Developments	VanBoxmeer & Stranges Engineering Ltd	SRM Architects Inc.
Height	*Year Tested*	*Model Scale*
118 m	2018	1:400

The Project

The DTK Condos is located at 60 Frederick Street in Kitchener, Canada. This mixed-use development consists of a 36-story condominium tower with an attached retail podium.

The Wind Tunnel Studies

The wind engineering studies for the DTK Condos 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 cladding pressures were carried out using a pressure model containing 345 pressure measurement locations distributed over the tower.

The study of pedestrian level wind speeds included 26 measurement probes distributed around the project site.

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

FSTB/ 372 /April , 2020 / DG
Last Printed: April, 9, 2020