O Canvas High House, Sao Paolo, Brazil

Wind Engineering Study

Image Credit: Canvas Alphaville

Client	*Structural Engineer*	*Architect*
Neuman Storto Empreendimentos Imobiliários Ltda	França & Associados Projetos Estruturais	Königsberger Vannucci
Height	*Year Tested*	*Model Scale*
117 m	2018	1:400

The Project

The O Canvas High House development is in the Alphaville neighbourhood on Alameda Purus at the intersection with Av. Cauaxi in São Paulo, Brazil. This residential development is 32 stories and about 117m tall.

The Wind Tunnel Studies

The wind engineering studies for the O Canvas High House 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 409 pressure measurement locations distributed over the tower.

The study of pedestrian level wind speeds included 35 measurement probes distributed around the project site.

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