# O Parque, Sao Paolo, Brazil

## Wind Engineering Study

Image Credit: DTK Condos.

| *Client* | *Structural Engineer* | *Architect* |
|---|---|---|
| Gamaro Desenvolvimento Imobiliário | França & Associados Projetos Estruturais | Tryptique Architecture e Contier Arquitetura |
| *Height* | *Year Tested* | *Model Scale* |
| 100 m - 150 m | 2019 | 1:400 |

### The Project

The O Parque development is in the Brooklin neighbourhood, at Avenida Roque Petroni Júnior, 542, São Paulo, Brazil. This mixed-use development consists of 4 towers, identified as Towers 4, 5, 6 and 7. Towers 4 and 5 are approximately 41 stories and about 150m in height, Tower 6 is a 36-story tower about 140m in height and the Tower 7 is 19 stories and about 100m tall.

### The Wind Tunnel Studies

The wind engineering studies for the O Parque development 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 1580 pressure measurement locations distributed over the 4 towers.

The study of pedestrian level wind speeds included 69 measurement probes distributed around the project site.

**The Boundary Layer Wind Tunnel Laboratory**

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