

Pedestrian Wind Study

*To assess wind comfort and safety levels
for a development*



Wind sensors on model at grade and podium levels.

Benefits to Clients

- Identifies whether wind conditions will be acceptable.
- Provides clear understanding of the mechanism of wind flows influencing pedestrian comfort and safety.
- Develops measures to improve comfort and safety at key areas (plazas, terraces, entrances, etc.), thus avoiding costly retrofits and improving enjoyment, use and public perception of the facility.

Key Features

- **Simulation Details:** The local wind characteristics and their effects on human comfort in outdoor areas around a proposed development are determined using wind velocity measurements obtained from wind tunnel tests of the scale model of the proposed building with existing surrounding buildings. Testing conducted for 36 wind directions in 10° increments.
- **Local Wind Climate:** The wind climate from the nearest recording stations (e.g., local airport) is used with the wind tunnel data to determine the wind comfort and safety levels around the development. The wind climate considered in the analysis can be tailored to the time of day or season according to the planned use of an area.

Wind conditions predicted around a development.

