# 855 Avenue of The Americas, New York, NY, USA

## *Wind Engineering Study*

Image Credit: Costas Kondylis and Partners LLP

| *Client* | *Structural Engineer* | *Architect* |
|---|---|---|
| Goldstein Associates Consulting Engineers PC | Goldstein Associates Consulting Engineers PC | Costas Kondylis and Partners LLP |
| *Height* | *Year Tested* | *Model Scale* |
| 460 feet | 2007 | 1:400 |

### *The Project*

The 855 Avenue of the Americas development in New York City consists of a 35-storey single tower with mixed occupancy. The site is located in Manhattan and is bounded by W. 30th Street, W. 31st Street and Avenue of the Americas.

The tower sits atop a 5-storey retail low-rise. The tower's lower levels are intended for office space and the upper levels for residential use.

### *The Wind Tunnel Studies*

The wind engineering studies for 855 Avenue of the Americas included a study of the wind-induced structural loads and responses, local cladding pressure loads and pedestrian level winds.

The study of the overall loads and responses was determined using the force balance technique.

A study of wind-induced cladding pressures was carried out for 442 measurement locations distributed over the tower.



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