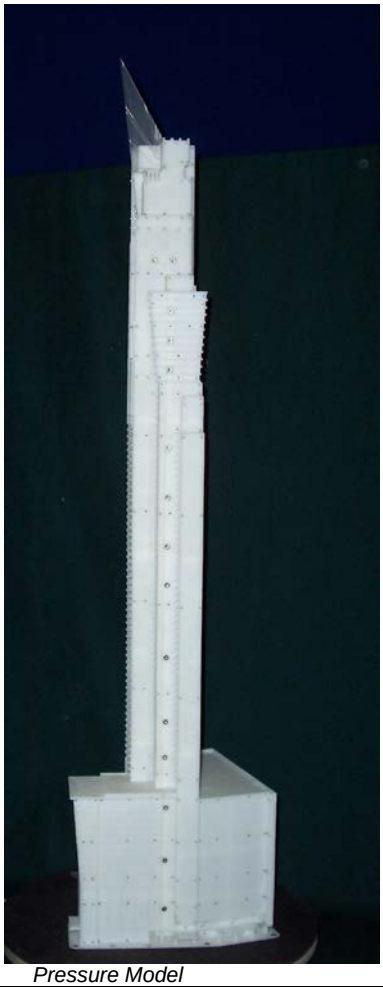
# ICE Tower, Panama City, Panama

## Wind Engineering Study

*Illustration of Tower*

*Balance Model*



*Pressure Model*

| | | |
|---|---|---|
| *Client*<br>F&F Properties, LTDA, Inc. | *Structural Engineer*<br>Dr. Luis Garcia | *Architect*<br>Pinzón Lozano & Asociados |
| *Height*<br>375m | *Year Tested*<br>2006 | *Model Scale*<br>1:400 |

### The Project

The ICE Tower in Panama City consists of a single tower rising 340m above street level. The roof top spire rises an additional 35m. The 102-storey ICE Tower is the tallest building in both Panama and Latin America. It is located on Calle Aqualino De La Guardia on the north shore of the Bahia de Panama (Panama Bay).

The Ice Tower is a mixed-use tower consisting of casino, hotel and residential floors.

### The Wind Tunnel Studies

The wind engineering studies for the Ice Tower included a study of the wind-induced structural loads and responses for the tower and local cladding pressure loads.

The study of overall structural loads and responses was determined for the tower using the base balance technique.

A study of wind-induced cladding pressures was carried out for 917 measurement locations distributed over the tower.


**The Boundary Layer Wind Tunnel Laboratory**

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FSTB/ 261 /February 2007 / DG
Last Printed: March 19, 2009