# Torre Mayor, Mexico City, Mexico

## Wind Engineering Study

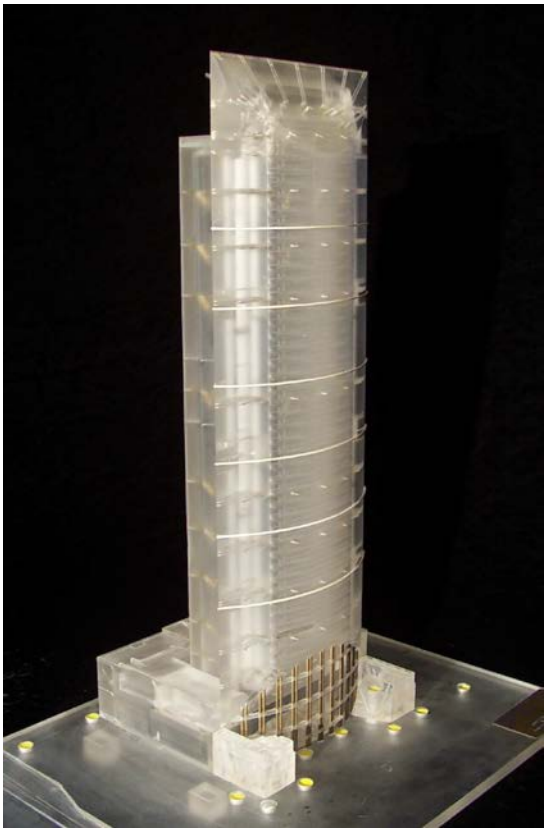

Image Credit: Rapick

| *Client* | *Structural Engineer* | *Design Architect* |
|---|---|---|
| Reichmann International, Mexico City | WSP Cantor Seinuk, New York | Zeidler Roberts Partnership, Toronto, Canada |
| *Height* | *Year Tested* | *Model Scale* |
| 225 m (740 ft) | 1997 | 1:400 |

### The Project

The project is located on the northwest corner of Paseo de la Reforma and Rio Elba in the Chapultepec District of Mexico City, Mexico. The tower is 57 storeys in height.

The building features a 10-level parking garage on the north side of the main tower and a 4-level retail annex on the southwest and southeast corners at ground level.

The main tower has 52 levels of office space and three levels of mechanical floors. The south façade has a distinctive curved surface and is accented by wedge-shaped setbacks at the base and top of the tower.

### The Project (continued)

The tower utilizes composite construction of steel columns encased in reinforced concrete up to the 30th floor. The project has won awards for innovative use of viscous damping devices to reduce the impact of seismic events.

### The Wind Tunnel Studies

The study provided information on wind-induced structural loads, cladding loads and pedestrian-level wind environment.


**The Boundary Layer Wind Tunnel Laboratory**

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