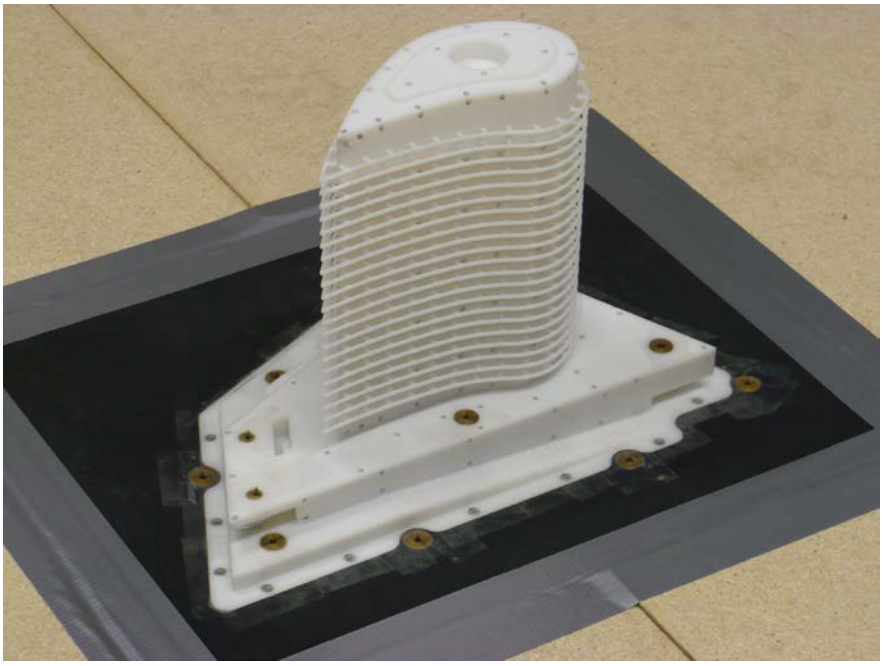
Torre del Agua, Zaragoza, Spain

Wind Engineering Study

Image Credit: Zaragoza Directo



Client	Structural Engineer	Architect
Enrique de Teresa Arquitectos Asociados	MC2 Estudio de Ingeniería, S.L	Enrique de Teresa Arquitectos Asociados
Height	**Year Tested**	**Model Scale**
74 m	2007	1:400

The Project

Torre del Agua in Zaragoza, Spain consists of a 25-storey, commercial building shaped like a water drop sitting on a two-storey podium. Torre del Agua serves as the north gate entrance to the Expo Metropolitan Park in Zaragoza located in Ranillas Meander, on the left bank of the Ebro River.

The total area of the building exceeds 21,000 square meters and the area accessible to visitors amounts to approximately 10,000 square meters.

The Wind Tunnel Studies

The wind engineering studies for Torre del Agua 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 pressure integration technique.

A study of wind-induced cladding pressures was carried out for 232 measurement locations distributed over the tower and the podium

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