AAM Tower, Dubai Media City, UAE

Wind Engineering Study

Image Credit: Carlos A. Ott Architect

Client	*Structural Engineer*	*Architect*
ARENCO Architecture & Engineering	ARENCO Architecture & Engineering	ARENCO Architecture & Engineering
Height	*Year Tested*	*Model Scale*
243.8 meters	2004	1:400

The Project

The AAM Tower in Dubai Media City, U.A.E. consists of a single tower on top of a large podium. The tower has a rectangular shape in its main body and two triangular spires. Also located on the roof of the main body is a large canopy. The tower is a 46-storey office tower. The site is located on Sheikh Zayed Road, Dubai, United Arab Emirates.

The Wind Tunnel Studies

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

A study of wind-induced cladding pressures was carried out for 508 measurement locations distributed over the tower and podium.

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

The pedestrian level wind study examined 16 locations including the top of the podium and the canopy covered roof area.

The Boundary Layer Wind Tunnel Laboratory

Western

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