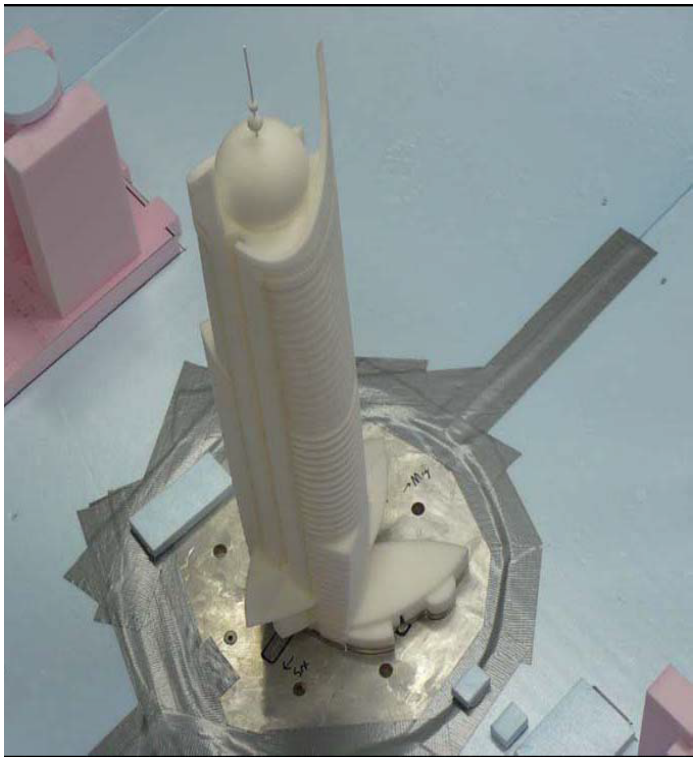
Burj Alalgathafi, Tripoli, Libya

Wind Engineering Study



Client	Architect & Engineer	
Dar AL-Handasah Group	Dar AL-Handasah Group	
Height	Year Studied	Model Scale
246m	2007	1:400

The Project

The project consists of a 47 storey tower with a unique roof top feature and includes a spire.

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The Wind Tunnel Studies

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

The study of overall structural loads and responses for the towers were determined using force balance technique.

The study of wind-induced cladding pressures was carried out for 698 measurement locations distributed over the towers.

The pedestrian level wind study examined 22 locations in and around the site.

Alan G. Davenport Wind Engineering Group

Western

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FSTB/351/Mar 2010/RTE
Last Printed: March 23, 2010