L.G. Gangnam Tower, Seoul, Korea

Wind Engineering Study

Client	*Engineers*	*Architect*
Balance - Skidmore Owings & Merrill Pressures - Permasteelisa Ply	Skidmore Owings & Merrill	Skidmore Owings & Merrill
Height	*Year Studied*	*Model Scale*
173 meters	Balance 1995, Pressure 1997	1:400

The Project

The 38 storey mixed use tower is located in Gangnam-gu District, Seoul. The tower is part of a facility which includes an art hall, performance arts theatre, corporate exhibition hall, offices, retail, restaurants, health club and parking.

The Wind Tunnel Studies

The study examined two configurations of the surroundings with and without proposed future development adjacent to the site.

A high frequency force balance (HFFB) technique was used to determine the information on wind-induced structural loads and building motions.

A pedestrian level wind study examined 16 locations in and around the site.

A flow visualization study was performed to examine wind conditions in and around the site.

The study of wind-induced cladding pressures was carried out for 273 measurement locations distributed over the tower and associated low-rise.

The Boundary Layer Wind Tunnel Laboratory

Western

The Boundary Layer Wind Tunnel Laboratory
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