MIT - Sloan School of Management, Cambridge, MA, USA

Wind Engineering Study

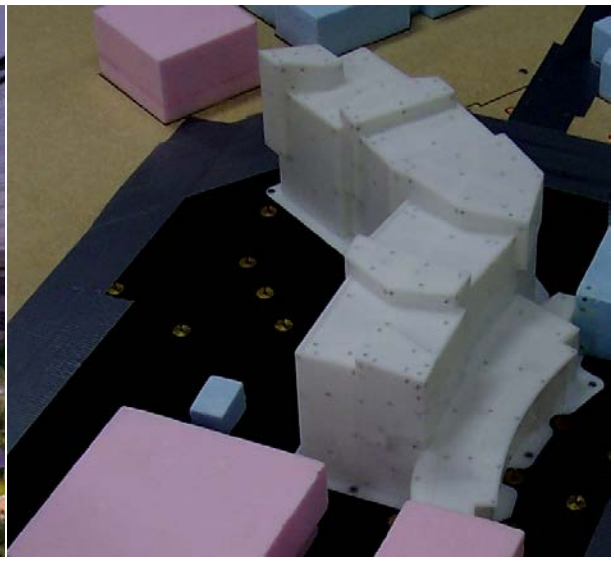

Image Credit: Moore Ruble Yudell Architects & Planners

Client	*Architect*	*Architect*
Massachusetts Institute of Technology (MIT)	Bruner/Cott Architects	Moore Ruble Yudell Architects & Planners
Height	*Year Tested*	*Model Scale*
115 feet	2007	1:300

The Project

The Sloan School of Management is located within the east campus of the Massachusetts Institute of Technology. The building is 7-storeys with an area of 209,000 square feet. The building will house classrooms, executive education, dining, group study and related social spaces.

The design of this building was based upon sustainability in environmental, financial and social categories. The Sloan School of Management is a LEED Gold Registered Building.

The Wind Tunnel Studies

The wind engineering studies for the Sloan School of Management included a study of the local cladding pressures and pedestrian level wind speeds.

The study of wind-induced cladding pressures was carried out for 433 measurement locations with 24 additional locations on the surrounding existing buildings. As well, the net differential pressures were calculated on two large entrance canopies. Pressure measurements were also performed on green roof areas.

A pedestrian-level study was performed at 39 locations. It was used to assess human comfort and safety in pedestrian traffic areas as well as areas where people gather for extended periods of time.

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