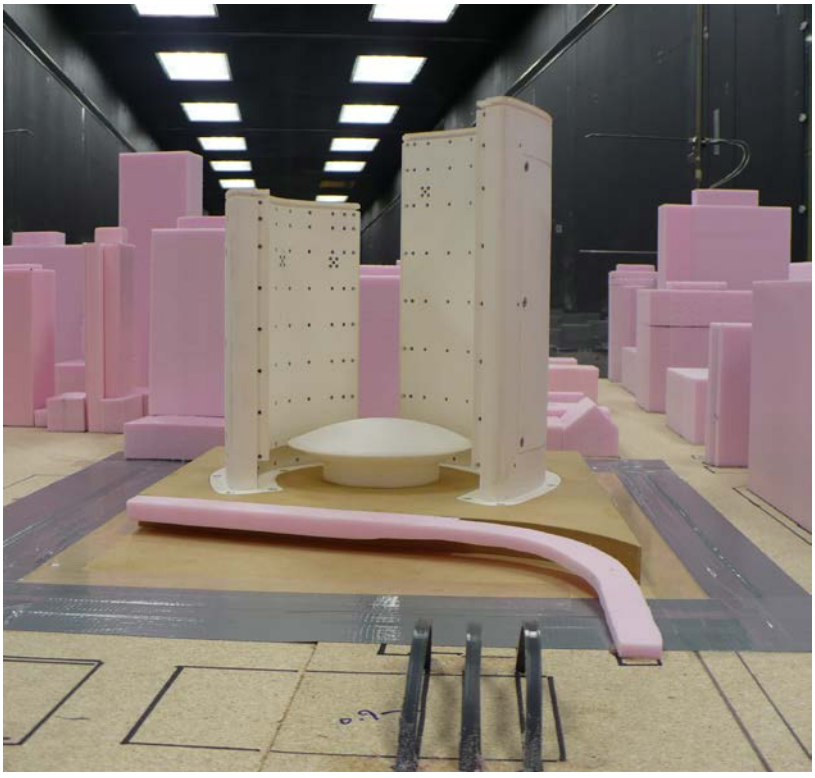
Toronto City Hall Re-glazing, Toronto, Ontario

Wind Engineering Study



Client	Owner	.
C3 Polymeric Limited	City of Toronto	
Height	**Year Studied**	**Model Scale**
East Tower 99.5m, West Tower 79.4m	2009	1:400

The Project

The City Hall of Toronto is one of the most distinctive landmarks of the city and is undergoing a re-glazing as part of its Sustainability and Energy Efficiency updates. The original construction of the towers occurred from 1961 to 1965.

The Wind Tunnel Studies

A wind engineering study of local cladding pressure loads for the two towers was undertaken.

The study of wind-induced cladding pressures was carried out for 188 measurement locations on the 37 storey east tower and 166 locations on the 20 storey west tower, distributed mainly over the inner glass cladding of each of the towers.

In selected locations detailed measurement coverage was performed in order to obtain panel loads taking spatial averaging into account.

The Boundary Layer Wind Tunnel Laboratory

Western

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