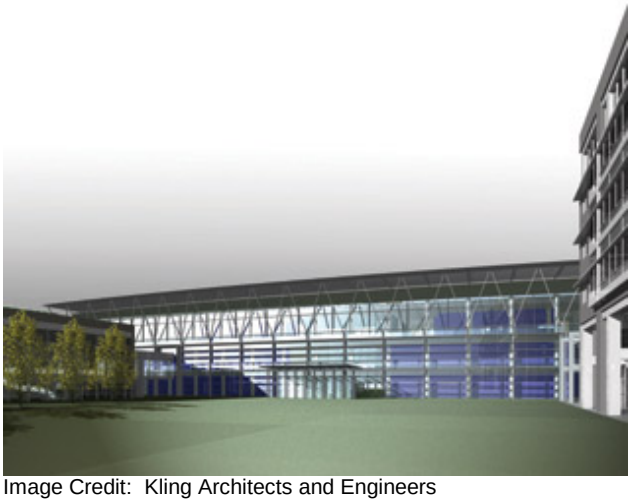
FDA Central Shared Use Facility, White Oak, MD, USA

Wind Engineering Study



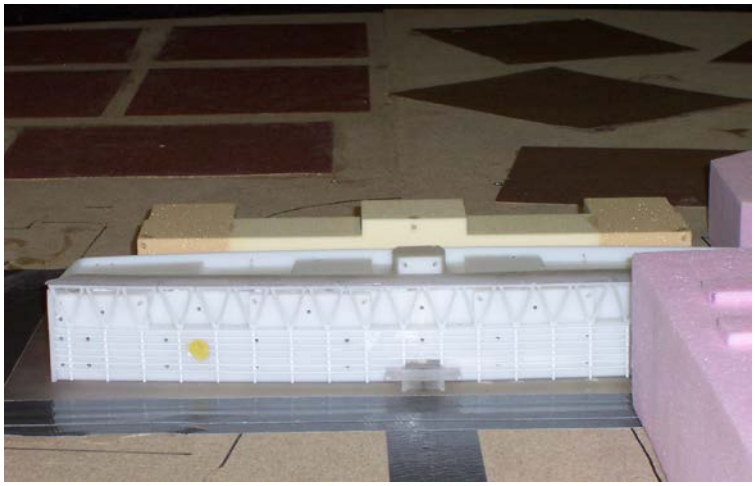


Image Credit: Kling Architects and Engineers

Client	*Structural Engineer*	*Architect*
Kling Architects and Engineers	Kling Architects and Engineers	Kling Architects and Engineers
Height	*Year Tested*	*Model Scale*
18 m	2003	1:300

The Project

The FDA Central Shared Use Facility in White Oak consists of a 4-storey low-rise building. The site is located in the White Oak campus and is bounded by New Hampshire Avenue.

This multi-service building will house the Food and Drug Administration library, central conference and training center. The design incorporates a planted "green" roof.

The Wind Tunnel Studies

The wind engineering studies for FDA Central Shared Facility included a study of the wind-induced structural loads and responses for the visor structure and local cladding pressure loads.

The study of overall structural loads and responses for the visor were determined using the wind pressures measured on its surface.

A study of wind-induced cladding pressures was carried out for 222 measurement locations distributed over the low-rise.

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