Canary Wharf, London, England

Wind Engineering Study

Image Credit: Canary Wharf Group PLC (2002)

Features	*Architects / Engineers*
Project site is 86 acres One Canada Square (50 storeys) is the tallest office building in the UK 15 Office Buildings and a working population of 42,000 (as of Jan. 2002) Retail, Conference and Banqueting Centre Docklands Light Railway Station London Underground Station	Many of the world's leading architects, designers and engineers have been involved in the creation of Canary Wharf
	Model Scale 1:500

The Project

The first wind tunnel studies for this project were undertaken at the BLWTL in 1985. Wind tunnel studies have continued on an ongoing basis to assist the Canary Wharf Group with wind-related issues as the project evolved. Development is expected to be completed around 2005, subject to market conditions.

The Canary Wharf development is unique in BLWTL history for its longevity, the large scope of wind engineering applications employed and the valued client support developed over the years.

The Wind Tunnel Studies

Most structures at Canary Wharf have been tested at the BLWTL.

Noteworthy aspects of these studies include: analysis of the local wind climate; development of wind safety and comfort levels for evaluating the acceptability of the outdoor wind environment; wind environment impact studies for surrounding areas; pedestrian-level wind environment evaluations; structural loads using the force-balance; wind-induced structural responses including accelerations; and information on wind pressures for cladding components, canopies, air plenums, etc.

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