

Project Summary

TF2000 Compartment Test



Project Description

As part of the Timber frame 2000 (TF2000) project a large scale compartment fire test was carried out. The test was performed on a full-scale six storey timber frame building at BRE Cardington. Changes to Building Regulations in 1991 meant that it was now possible to construct timber frame buildings of more than four storeys. With new methods of construction and demands on the industry it was important to demonstrate the performance of medium-rise timber frame buildings subject to real fires.



The primary objective of the project was to evaluate the performance of the structure when subject to a fully developed post-flashover fire. The project also assessed whether the compartmentation of the building was effective in preventing fire spread, maintaining the integrity of means of escape and structural stability.



The compartment was instrumented with thermocouples, load cells, gas analysis and heat flux meters to monitor the fire and provide information on the performance of the structure throughout the test.

Chiltern Fire's Involvement

TF2000 was a collaborative project involving BRE, Government, TRADA Technology Ltd and the timber industry. Chiltern International Fire Ltd was responsible for all fire testing that was performed during the project including the compartment fire test. This included all technical input, sizing of fire loads, instrumentation and running of the tests.



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