



You are here: [Home](#) » [News & Information](#) » [Projects & reports](#) » [A Review of Part B of the Building Regulations](#) » [Effectiveness of sprinklers in residential premises](#)

[News & Information](#)[Press Releases](#)[BRE Group in the news](#)[Case Studies](#)[CTF - the BRE Group magazine](#)[Presentations by our staff](#)**Projects & reports**[Domestic energy fact file](#)[Energy use in homes](#)[Fires In Enclosed Car Parks](#)[Photovoltaics field trial](#)[BeAware research project](#)[Towards zero emission refurbishment options in UK housing](#)**A Review of Part B of the Building Regulations**[Smoke ventilation](#)[Cavity barriers](#)[Effectiveness of sprinklers](#)**Effectiveness of sprinklers in residential premises**[Construction Resources and Waste Roadmap](#)[Improving Sound Insulation In Homes](#)[Sustainable Construction - Simple ways to make it happen](#)[Internet enabled technologies in buildings](#)[Carbon Detectives](#)[Home Comfort Survey](#)[Register for our e-news](#)[BRE Group on Twitter](#)**Report: Effectiveness of sprinklers in residential premises****Report of BRE project commissioned ODPM to carry out a study on the effectiveness of sprinklers in residential premises**

BRE was commissioned by Building Regulations Division, Office of the Deputy Prime Minister (ODPM) to carry out a two and a half year study on the effectiveness of sprinklers in residential premises.

The overall aim of the project was to determine the benefits of sprinklers in residential accommodation. The specific objectives of this project were:

To analyse statistical information to determine how effective they have been in reducing life loss and property damage

To make a risk-based assessment to determine potential benefits for the UK housing sector, including dwellings, HMOs, flats and maisonettes of varying heights

To collect data on the benefits and costs of residential sprinklers

To establish benchmark fire tests for UK conditions to support the further development of British Standard Drafts for Development 251 and 252, and

To carry out an experimental programme to examine and quantify the effectiveness in fire suppression of residential sprinklers, in particular with regards to life safety in the room of origin.

[Executive summary](#)[Summary Report](#)[Contents](#)[Project description](#)[Pilot study](#)[Benchmark tests](#)[Experimental programme](#)[Cost benefit analysis](#)[Other considerations and recommendations for further work](#)[Appendix 5A House fires test data](#)[Appendix 5B House fires photographs](#)[Appendix 5C House fires optical density, visibility and fractional effective dose](#)[Appendix 5D House fires summary of temperatures and fractional effective dose](#)[Appendix 5E Compartment fires photographs](#)[Appendix 5F Compartment fires temperatures, gas concentrations, optical transmittance, smoke alarm activations and water flow rate](#)[Appendix 5G Compartment fires fractional effective dose, optical density, visibility and temperatures](#)[Appendix 5H Compartment fires summary of temperatures and fractional effective dose](#)[Appendix 5I Calorimetry fires heat release rate versus time](#)**Contact**E: [BRE Global](#)

T: +44 (0)1923 664100

or via our [local offices](#)