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Abbreviation

SR061

Valid from

01/01/1998

Information provider

BRANZ Limited

Author

P. C. R. Collier

Information type

Study report

Format

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Description

This report investigates fire hazards in residential buildings by conducting a range of fire experiments on a purpose-built typical low-cost New Zealand dwelling.

This report aims to quantify fire hazards in a domestic building, and to compare modelling with fire and smoke movement in a real building situation.

Hazards evaluated ranged from limited liquid fuel fires to larger-scale burns using items of furniture. The effectiveness of a range of detection and suppression devices was also tested. A selection of experimental results was analysed to determine smoke and toxic gas movement, along with temperature rises in the various rooms of the house; these results were compared with the predictions of fire growth computer models.

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