

Fire catalogue

iHS



Fire engineering

A collection of BRE expert guidance on fire modelling and engineering for the built environment

A valuable reference library of BRE Digests, Information Papers and Good Building and Repair Guides on fire modelling and engineering for the built environment.

AP 313 **NEW**

Fire safety in buildings

A collection of BRE expert guidance on fire modelling and engineering for the built environment

A valuable reference library of BRE Digests, Information Papers and Good Building and Repair Guides on fire modelling and engineering for the built environment.

AP 312 **NEW**

The role of codes, standards and approvals in delivering fire safety

Product manufacturers have always had to demonstrate compliance with a wide range of codes and standards to trade. As new markets open up there is greater potential for confusion between the performance of products when tested to standardised methodologies and the evidence needed to meet different local requirements. This Information Paper identifies the key processes used to test and approve fire suppression products.

IP 5/16 **NEW**

External fire spread

Supplementary guidance to BR 187 incorporating probabilistic and time-based approaches

This Information Paper reviews existing fire compartment temperature calculation methods from BR 187 and presents methodologies for assessing the sensitivity of the parametric approach to variations in fire load, window size and insulation of compartment boundaries.

IP 3/16 **NEW**

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External fire spread

Building separation and boundary distances

Understand the methods for calculating adequate space separation between buildings to ensure that fire spread to an adjacent building is sufficiently delayed for the Fire Service to arrive on site and take preventative action. This new edition of BR 187, in support of national building regulations, gives a range of calculation methods supported by illustrative examples and presents detailed analysis to the methods so that users can create their own fire engineering software.

BR 187, 2nd edition **BEST-SELLER**

Fire performance of external thermal insulation for walls of multistorey buildings

Understand the principles and design methodologies for fire performance characteristics of external cladding systems with the third edition of this authoritative BRE guide, fully updated to reflect current materials and technologies.

BR 135, 3rd edition **BEST-SELLER**

Fire safety engineering: a reference guide

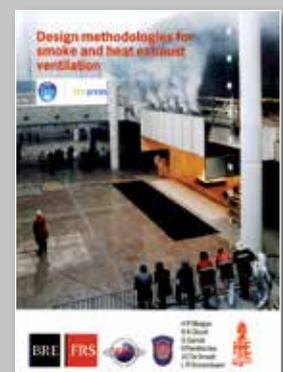
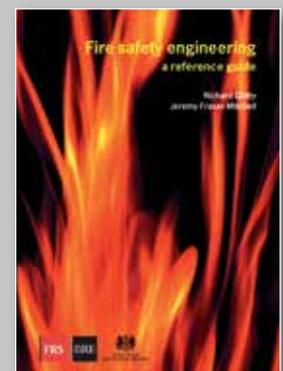
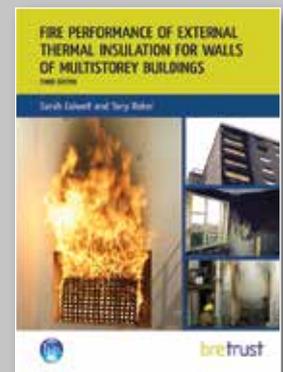
This guide provides basic descriptions for a number of key topics encountered in fire safety engineering and aspects that should be considered by designers, enforcers and other responsible persons. It is a reference for those who occasionally encounter different aspects of fire safety engineering or are new to the subject.

BR 459 **BEST-SELLER**

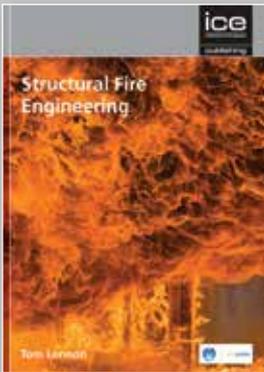
Design methodologies for smoke and heat exhaust ventilation

Get practical guidance on the design of smoke and heat exhaust ventilation systems (SHEVS) for atria and other buildings, drawing on current knowledge, research and the authors' cumulative experience of the design features required for regulatory purposes in many individual smoke-control applications.

BR 368 (PDF only) **BEST-SELLER**



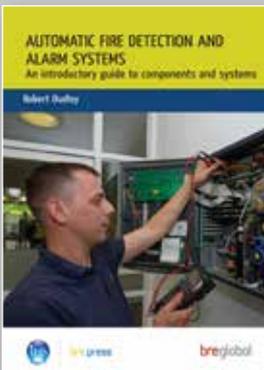
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Structural fire engineering

Get comprehensive practical design guidance on applying structural fire engineering. This guide provides insight into the structural fire engineering design process, regulations and selection of partial factors for the fire limit state.

AP 283

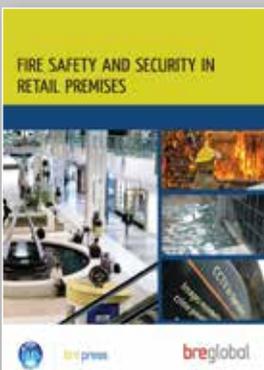


Automatic fire detection and alarm systems

An introductory guide to components and systems

This guide provides an excellent overview of automatic fire detection and alarm systems used in commercial and industrial buildings: how they are designed, how you can manage them and how to ensure that all your regulatory requirements are met.

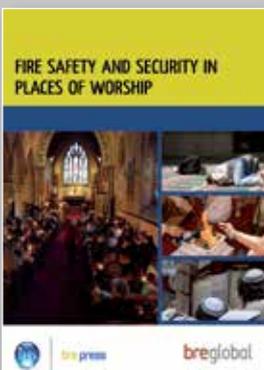
BR 510



Fire safety and security in retail premises

Protect your retail premises from fire and security risks. Learn all the basic principles of fire safety, how to carry out risk assessments and prepare emergency plans, plus get valuable guidance on dealing with crime, terrorism and assault.

BR 508



Fire safety and security in places of worship

Fire and security issues for places of worship need to be addressed under current legislation. This guide provides practical advice on how to achieve compliance, including carrying out a fire safety assessment and security assessment.

BR 499

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Concrete structures in fire

Performance, design and analysis

Get an overview of the structural fire engineering design process and the techniques available to ensure the safe and economical fire design of concrete structures.

BR 490

Computational fluid dynamics in building design

An introductory guide

Understand how computational fluid dynamics (CFD) is applied to building design. This guide for non-experts gives guidance on best practice, focusing on fire safety, ventilation, thermal comfort and wind movement around buildings.

FB 69

Water mist fire protection in offices

Experimental testing and development of a test protocol

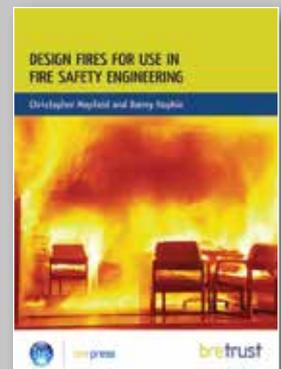
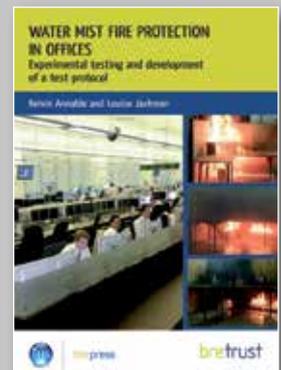
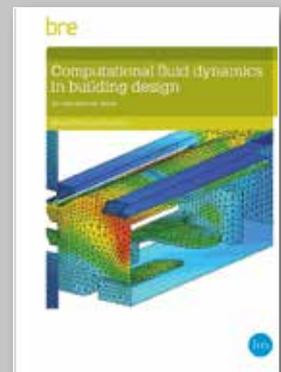
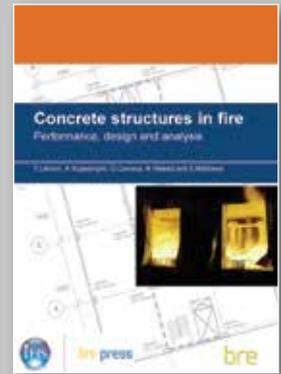
Understand the mechanisms for successful water mist fire protection systems in offices with this report giving much-needed research information and data from an experimental study. The results of the study define a fire test protocol for evaluating water mist systems in commercial office applications.

FB 34

Design fires for use in fire safety engineering

Learn how to define a robust and appropriate design fire for use in the fire safety engineering design of a building. This guide presents 29 experimental fires that cover a range of scenarios, and provides data that originate from actual fire tests.

FB 29



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Watermist systems for fire protection in domestic and residential buildings

An introduction

Get an introduction to the installation of watermist fire protection systems in domestic and residential buildings. This Digest covers the reasons for choosing watermist systems, current UK standards, how watermist systems work, issues to consider during specification, design, installation and maintenance, and use of third-party approved suppliers and products.

DG 534



Fire risk in high-rise and super high-rise buildings

Prevention and mitigation

Understand the nature of fire risk in high-rise and super high-rise buildings and how it can be adequately assessed and mitigated against. This Digest reviews four major fire incidents in high-rise buildings and fire statistics, and presents theoretical and quantitative analysis of fire risks in high-rise buildings.

DG 533



Sprinkler systems for fire protection of commercial and industrial buildings

This Digest summarises the key information needed by business managers/operators, specifiers, users, insurers and approving authorities to select, design and maintain sprinkler systems.

DG 518



Evacuation modelling and human behaviour in fire

This Digest provides practical advice and guidance on the use of numerical models to predict human behaviour during emergency building evacuation.

DG 516

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11 Fire engineering

Fire modelling and engineering for the built environment (**AP 313**)



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- Conventions for calculating linear thermal transmittance and temperature factors (2nd edition)
- The full cost of poor housing
- The cost-benefit to the NHS arising from preventative housing interventions
- Cracking in buildings
- Soakaway design
- Performance of exemplar buildings in use