

# Resilience catalogue



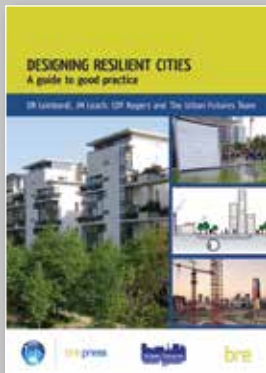


## Climate resilience

### A collection of BRE expert guidance on managing climate risks in the built environment

A valuable reference library of BRE Digests and Information Papers on managing climate risks in the built environment. This pack is one of a series of compilations of BRE expert guidance and advice on the built environment, each offering exceptional value for construction professionals.

AP 301 **NEW**

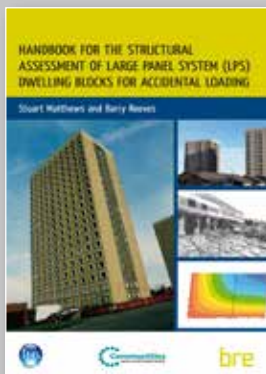


## Designing resilient cities

### A guide to good practice

Review the future performance of urban development and regeneration-related 'sustainability solutions' with this guide, which provides insights into the impacts of planning/design decisions and incorporates changing priorities and different ways of thinking.

EP 103



## Handbook for the structural assessment of large panel system (LPS) dwelling blocks for accidental loading

Get guidance on the structural assessment and strengthening options for large panel system (LPS) dwelling blocks, focusing primarily on their resistance to accidental loading associated with gas explosions.

BR 511

## Flood-resilient building

### Part 1: Legislation, planning, flood risk assessment and performance of buildings

### Part 2: Building in flood-risk areas and designing flood-resilient buildings

Get an introduction to flood-resilient building throughout the UK with this Digest, which covers flood legislation and planning requirements, flood-risk assessment and the flood performance of buildings.

DG 523, 2-part set



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## Computational fluid dynamics in building design

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

## Surface water run-off in the Code for Sustainable Homes

The 2007 floods affected 55,000 homes in England. The government has implemented policy changes relating to sustainable drainage requirements, which are now mandatory. Find out what the mandatory surface water run-off management requirements for new developments are and how to avoid the risk of flooding. Get tips for success to help you achieve compliance with the Code for Sustainable Homes requirements.

IP 6/13

## Designing for future climate change

### Lessons learned from developing an adaptation strategy

This Information Paper shares the knowledge gained from devising a commercially viable, climate change adaptation strategy for a high-density office building. It will help building designers and commercial tenants to understand the likely impacts of climate change and how to manage them.

IP 2/13

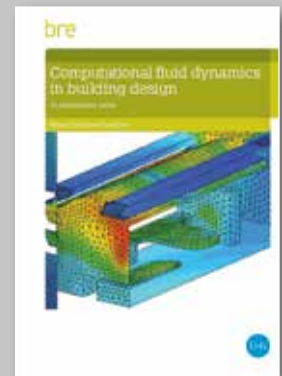
## An introduction to intelligent buildings

### Part 1: Benefits and technology

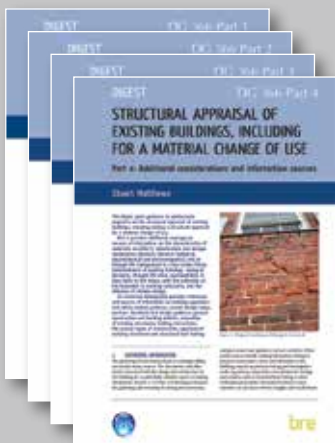
### Part 2: Legislation, planning and design

This two-part Information Paper provides an introduction to intelligent buildings. Part 1 gives an overview of the potential benefits, the technologies, potential applications and how these are delivered, and explains some of the jargon used. Part 2 outlines some of the relevant legislation and summarises essential points to consider when designing intelligent buildings.

IP 13/08, 2-part set



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## Determining wind actions using Eurocode 1

**Part 1: Guidance on the use of BS EN 1991-1-4**

**Part 2: Worked examples – wind loads on a two-storey house and 128 m tower**

**Part 3: Worked example – calculation of forces on a tower using the full dynamic method**

This newly revised three-part Digest covers the new approach to wind loading used in Eurocode 1. It is aimed at engineers, architects and other professionals who need to understand how to calculate the effect of wind on buildings and design options to minimise it. Wind loads on bridges are not covered.

DG 436, 3-part set, 2015 edition

## Soakaway design

Digest 365 is one of the most widely used BRE publications, a BRE best-seller, aiding designers to support planning and development applications. This revised edition includes important changes to recommendations and requirements that have been introduced since the last edition was published in 2007.

DG 365, 2016 edition

## Wind loads on roof-mounted photovoltaic and solar thermal systems

Get updated guidance on the wind loads to be used for the design of roof-mounted solar systems in the UK. This Digest has been revised and expanded to include guidance for a wider range of roof-mounted solar installations and example calculations.

DG 489, 2014 edition

## Structural appraisal of existing buildings, including for a material change of use

**Part 1: Requirements for a structural appraisal**

**Part 2: Preparing for structural appraisal**

**Part 3: Structural appraisal procedures**

**Part 4: Additional considerations and information sources**

Get guidance on the structural appraisal of existing buildings, including making a structural appraisal for a material change of use. The provisions in the structural Eurocodes for reducing sensitivity to disproportionate collapse are also discussed.

DG 366, 4-part set

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## Applying flood resilience technologies

This Good Building Guide outlines steps that can be taken to protect buildings or communities against flooding by means of flood resilience (FRe) technologies, ie flood protection products that can provide resistance or resilience to flooding impacts. It covers two particular types of FRe technologies: aperture barriers (or property level protection) and perimeter barrier.

GG 84

## Building damp-free cavity walls

Cavity walls should be built so that the inner leaf stays dry. However, dampness is still a common problem due to the faulty design or construction of damp-proofing measures or the wrong choice of material. This Good Building Guide gives guidance on how to ensure that new cavity walls do not suffer from dampness problems.

GG 33

## Building simple plan brick or blockwork freestanding walls

A rule-of-thumb guide for contractors and site supervisors showing how to build sound freestanding boundary walls. This Good Building Guide gives maximum above-ground height and minimum foundation width for brickwork and blockwork in sheltered and exposed locations.

GG 14

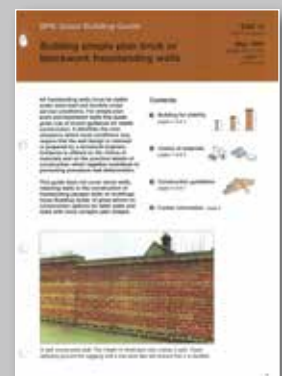
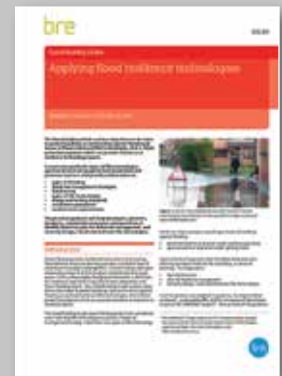
## Basement construction and waterproofing

### Part 1: Site investigation and preparation

### Part 2: Construction, safety, insulation and services

This Good Building Guide discusses one of the main challenges when designing a basement: preventing water or water vapour ingress. The focus is on dampness due to penetration of groundwater, sometimes complicated by rising damp.

GG 72, 2-part set



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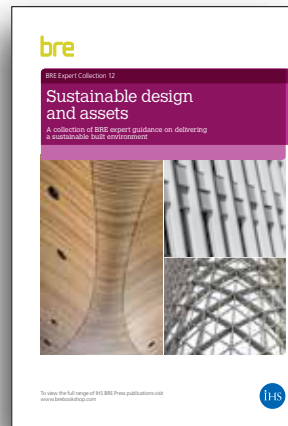
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- Performance of exemplar buildings in use