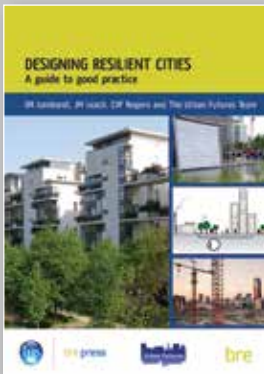


# Cities catalogue

iHS

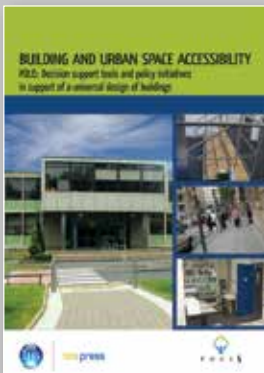


## Designing resilient cities

### 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



## Building and urban space accessibility

### POLIS: Decision support tools and policy initiatives in support of a universal design of buildings

This report introduces the POLIS methodology and Decision Support System for Universal Building Design. It sets it within the context of access audit and action planning. POLIS is an assessment tool that has been developed through research, and the report is intended to highlight its potential.

EP 83

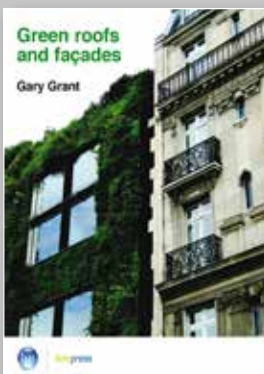


## Reuse of foundations for urban sites

### A best practice handbook

Explore the background to foundation reuse and the key issues. This book gives advice on how to address risk through sound engineering principles and presents technical guidance on the processes for deciding on the correct foundation options. It also provides advice on investigation, design and construction using reused foundations.

EP 75



## Green roofs and façades

Contribute to energy conservation, enhanced air quality, increased wildlife habitat and open space through the use of green roofs and façades on buildings. This fully illustrated book gives advice on the design, construction and maintenance of green roofs and façades, and provides numerous examples of successful applications from around the world.

EP 74

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## Daylight and shading

### A collection of BRE expert guidance on designing for daylight and sunlight, and shading of buildings

A valuable reference library of BRE Digests and Information Papers on designing for daylight, sunlight and shading of buildings. This pack is one of a series of compilations of BRE background documents and current guidance and advice on the built environment, each offering exceptional value for construction professionals.

AP 304

## Site layout planning for daylight and sunlight

### A guide to good practice

This highly regarded BRE guide gives advice on site layout planning to achieve good sunlighting and daylighting, both within buildings and in the open spaces between them. New material covers dense urban areas, trees and hedges.

BR 209, 2nd edition

## Site layout planning for daylight

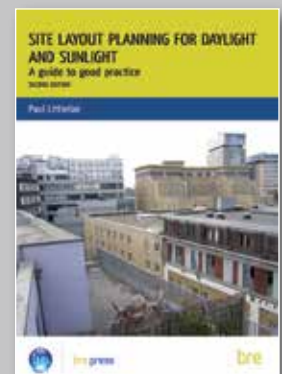
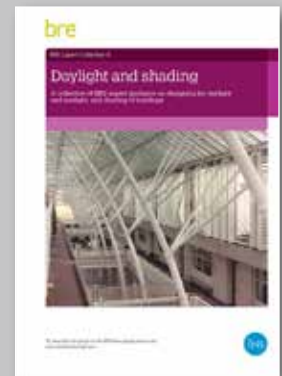
Get an overview of BRE's revised guidance on site layout planning to achieve good daylighting with this Information Paper, which deals with daylight in new developments and in existing buildings nearby.

IP 23/12

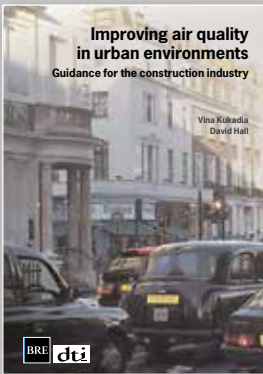
## Site layout planning for sunlight and solar gain

Get an overview of BRE's revised guidance on site layout planning to achieve good sunlighting with this Information Paper, which deals with sunlight in new developments and in existing buildings and gardens nearby.

IP 22/12



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## Improving air quality in urban environments

### Guidance for the construction industry

With increasing levels of pollution in urban areas, the need to improve the quality of the air we breathe becomes more important. In response, local authority planning and environmental health departments are increasingly demanding that those who specify, design or construct buildings should minimise pollution emitted during construction and as a consequence of the building's subsequent use, and should consider what may infiltrate the building in use. The report gives guidance on how to address air quality issues during building construction and demolition.

BR 474



## Potential implications of climate change in the built environment

Climate change will have a significant impact on the built environment this century. Effects such as sea-level increases could threaten up to 2 million homes and 40% of industry near to coast or river estuaries. As the built environment has an expected lifetime of 20–100+ years, it is important that climate change impacts are considered for building stock being built in the coming decades. In six illustrated chapters, this publication includes technical assessments of potential impacts and adaptation strategies.

FB 2



## 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



## Designing urban streets to minimise heat island effects

### Understanding wind-driven convective heat transfer from the surfaces of inner-city buildings and streets

Find out how to take advantage of the convective cooling effect of the wind to design urban streets. Designers will learn how effective street design can help eliminate pollutants more effectively, provide shelter for pedestrians and create a better environment.

IP 19/10

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## A technical guide to district heating

Are you involved in developing a new district heating scheme or refurbishing an existing one? This comprehensive technical guide provides information on system and component design, operation and maintenance.

FB 72

## Lessons learned from community-based microgeneration projects

### The impact of renewable energy capital grant schemes

Learn from the experience of nine case studies where community-based renewable energy technologies (solar photovoltaic, solar thermal, wind turbine, ground source heat pump and wood-fuelled boiler) have been installed in schools, colleges and community buildings. The case studies cover community engagement, installation, specification, operation, performance and grant process.

FB 43

## Ventilation for healthy buildings

### Reducing the impact of urban air pollution

Understand how to develop effective ventilation strategies for reducing the ingress of external pollutants into buildings while maintaining adequate ventilation. This publication provides invaluable practical guidance on achieving optimum ventilation in urban areas.

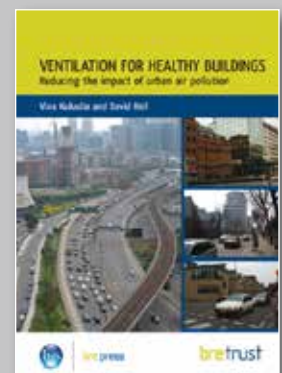
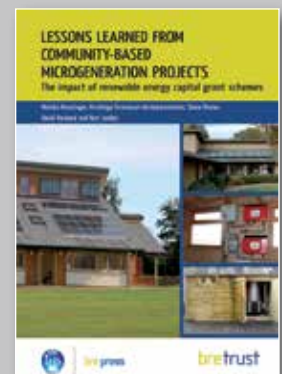
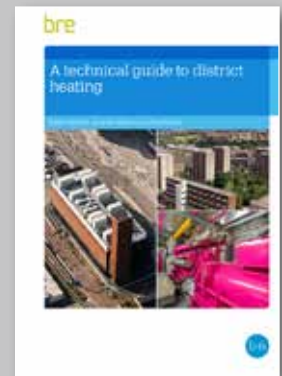
FB 30

## Smart Growth

### A sustainable strategy for urban development and regeneration

Learn about the Smart Growth framework for achieving sustainable development. This Information Paper draws upon existing examples that have embedded 'smart' principles into their development regimes and suggests mechanisms to help drive a 'smarter' agenda further.

IP 12/12



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## 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



## Obtrusive light from proposed developments

Learn how obtrusive light can be addressed when a new development is proposed. This Digest explains current guidelines and how they can be applied to different types of lighting such as spill light from floodlighting.

DG 529

## Safe and secure town centres at night

### An introduction to the BRE toolkit

This Information Paper outlines a method of assessing the management of town centres at night. It introduces a tool that has been developed by BRE to provide comprehensive coverage of all the issues involved in alcohol-related violence and disorder.

IP 10/08



## 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 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



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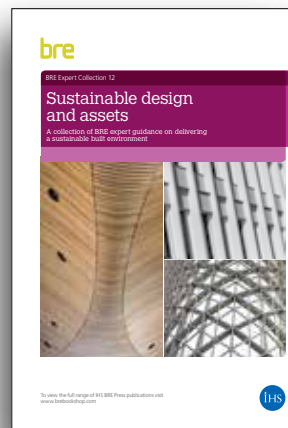
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- Performance of exemplar buildings in use