

Environmental catalogue

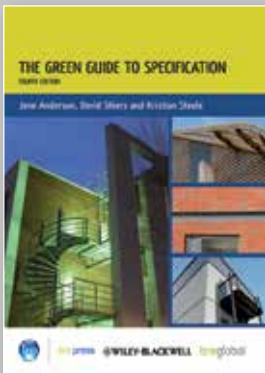




Soakaway design

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 **BEST-SELLER**



The Green Guide to Specification

Need to reduce the environmental impact of your buildings? This guide is your essential tool for the informed and responsible selection of construction materials and components.

BR 501, 4th edition **BEST-SELLER**

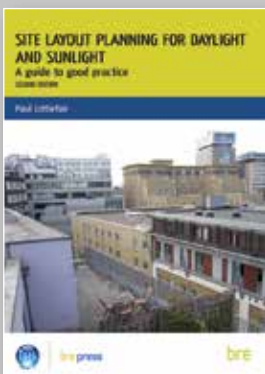


Radon

Guidance on protective measures for new buildings

Get practical guidance on reducing the concentration of radon in new buildings, extensions, conversions and refurbishment projects. This guide will help architects, designers, builders and installers to specify and install successful protective measures to reduce risk of exposure to radon. The guide contains updated maps for identifying areas where radon protective measures should be installed.

BR 211, 2015 edition **BEST-SELLER**



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 **BEST-SELLER**

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Reducing thermal bridging at junctions when designing and installing solid wall insulation

Learn how to minimise the effects of thermal bridging or inconsistency in thermal envelope performance when designing and installing solid wall insulation during refurbishment. This guide sets out clear principles and methods for reducing thermal bridging effects, maximising carbon emission reductions and minimising the risk of condensation.

FB 61 **BEST-SELLER**

Performance of exemplar buildings in use

Bridging the performance gap

Review the operational performance of three public-sector office buildings designed to achieve energy and water efficiency over the longer term, based on a study carried out in 2010–2012. This report highlights the benefits and challenges of environmental design in relation to the building handover process and the management of facilities.

FB 78

Delivering sustainable buildings

Savings and payback

Learn about the costs and payback of design and construction strategies that enhance building sustainability and help to achieve BREEAM ratings. This report looks at low-cost or no-cost actions that can be used to enhance building sustainability as well as those processes that must be built into the project by the end of concept stage to minimise costs.

FB 63

BREEAM and the Code for Sustainable Homes on the London 2012 Olympic Park

Lessons from the Velodrome, Aquatics Centre and the Olympic and Paralympic Village

Share in the lessons learned about sustainable design and construction on this exceptional project: the use of BREEAM on two Olympic venues and the Code for Sustainable Homes on the Olympic and Paralympic Village.

FB 47



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Lighting and health

Can LEDs keep you awake at night and damage your brain? Can special lighting help people with dementia? Find out how lighting (including daylighting) can affect the health of people in buildings.

FB 74



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



Selecting lighting controls

Lighting controls can give important energy savings and their reasonable provision is required by building regulations whenever lighting work is carried out in buildings that are not dwellings. When choosing lighting controls, it is important to take into account the type of space, how it is used and the amount of daylight available. Find out what the common types of control are and how to calculate energy savings.

DG 498, 2014 edition



Sound insulation in dwellings

Part 1: An introduction

Part 2: Newbuild

Part 3: Material change of use (conversions)

This three-part Good Building Guide explains the basic principles of sound insulation and how to provide a reasonable level of sound insulation between new dwellings and between dwellings formed by a material change of use (conversions) to ensure that they comply with the appropriate national building regulations and any site-specific requirements.

GG 83, 3-part set

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Radon protection for new domestic extensions, dwellings and large buildings

GG 73: Radon protection for new domestic extensions and conservatories with solid concrete ground floors

GG 74: Radon protection for new dwellings

GG 75: Radon protection for new large buildings

These three Good Building Guides give practical advice and guidance on the successful installation of radon-protective measures in new domestic extensions and conservatories with concrete floors, new dwellings and large buildings, and explains why it is necessary. They will help building owners in radon-affected areas to determine whether protection is needed and the level of protection required. These Good Building Guides should be read in conjunction with the guidance in BRE Report BR 211 (see page 2).

AP 307, 3-part set, 2014 edition

Radon in the workplace

A guide for building owners and managers

Get practical guidance on reducing radon levels in workplaces. This guide is aimed mainly at employers, buildings owners and other non-specialists. It gives practical, cost-effective solutions to reduce indoor radon levels to comply with legal requirements.

FB 41, 2nd edition

Radon solutions in older homes

The principal entry route for radon into a building is usually through gaps and cracks in and around the ground floor. This Good Repair Guide gives advice on how to counteract this potentially life-threatening problem in older buildings.

GR 38

Radon solutions in homes

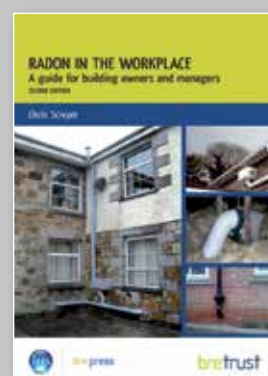
Part 1: Improving underfloor ventilation

Part 2: Positive house ventilation

Part 3: Radon sump systems

Get guidance on how to reduce radon levels in homes using underfloor ventilation, positive ventilation or sump systems. Advice is also given on system maintenance and troubleshooting.

GR 37, 3-part set



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Building on fill

Geotechnical aspects

Explore the behaviour of fills and the ways in which they can be economically and safely developed, and made suitable for building purposes. This third edition encompasses BRE's unique experience in more than 40 years of research and consultancy, and brings the subject up to date.

FB 75, 3rd edition



Brownfield sites

An integrated ground engineering strategy

Get authoritative guidance on the investigation, treatment and foundation design for building development on brownfield and landfill sites. This integrated ground engineering strategy takes a risk-based approach. It concludes with case histories covering some common problems.

BR 485

Designing to reduce the chemical, biological and radiological vulnerability of new buildings

This Information Paper considers the incorporation of measures for reducing the impact of chemical, biological and radiological (CBR) releases as an integral part of the early building design, planning and construction process. Once built, retrofitting to mitigate CBR impact will be time-consuming, disruptive and expensive.

IP 7/15



Locating ventilation inlets to reduce ingress of external pollutants into buildings

A new methodology

This Information Paper outlines a new methodology to identify the areas of a building where pollutant ingress is most likely to occur, and describes how to determine the relative magnitude of this ingress. This methodology will guide the location of ventilation inlets for improved indoor air quality and will improve the effectiveness of air quality assessments.

IP 9/14



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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. This report gives some guidance on how to address air quality issues during building construction and demolition.

BR 474

Airtightness in commercial and public buildings

Get comprehensive practical guidance on airtightness detailing for commercial, public and other non-domestic buildings. This guide gives generic examples of common air leakage paths and advice on methods and materials suitable for sealing common construction detailing.

FB 35, 3rd edition

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.

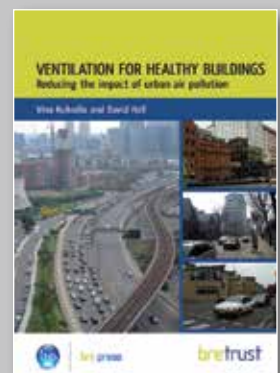
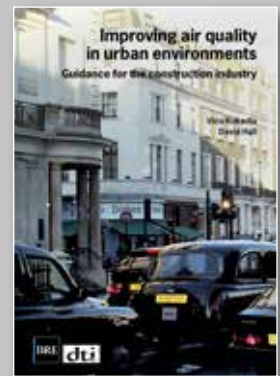
FB 30

LCA and REACH

The relationship between life cycle assessment and the regulation on the registration, evaluation, authorisation and restriction of chemicals

This Information Paper provides information to product manufacturers and product specifiers on the relationship between life cycle assessment (LCA) and the regulation on the registration, evaluation, authorisation and restriction of chemicals (REACH), using the BRE Global Environmental Profiles Methodology as an example of LCA.

IP 7/12



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Environmental impact of biomaterials and biomass

Understand the significant benefits and impacts of biomaterials and biomass over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how biomaterials and biomass have been assessed within The Green Guide to Specification.

FB 67



Environmental impact of windows

Understand the significant benefits and impacts of windows over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how window units and frames have been assessed within The Green Guide to Specification.

FB 66



Environmental impact of brick, stone and concrete

Understand the significant benefits and impacts of brick, stone and concrete over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how these materials have been assessed within The Green Guide to Specification.

FB 58



Environmental impact of metals

Understand the significant benefits and impacts of metals over their life cycle and identify opportunities for improvements to their environmental performance. This report reviews how metals have been assessed within The Green Guide to Specification.

FB 57

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Environmental impact of floor finishes

Incorporating The Green Guide ratings for floor finishes

Understand the significant benefits and impacts of floor finishes over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how floor finishes have been assessed within The Green Guide to Specification, and includes the ratings for floor finishes.

FB 39

Environmental impact of vertical cladding

Understand the significant benefits and impacts of external wall cladding products over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how external wall cladding materials have been assessed within The Green Guide to Specification.

FB 38

Environmental impact of insulation

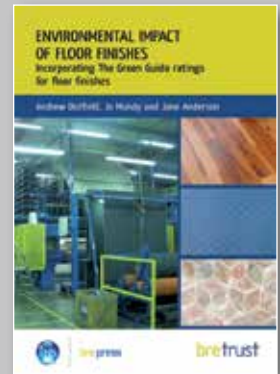
Understand the significant benefits and impacts of insulation products over their whole life cycle and identify opportunities for improvements to their environmental performance. This report reviews how insulation materials have been assessed within The Green Guide to Specification.

FB 37

Performance and service life in the Environmental Profiles Methodology and Green Guide to Specification

This Information Paper explains the principles behind BRE's approach to service life determination, details how this was used in updating the Environmental Profiles Methodology and The Green Guide to Specification, and explains how the service life information in these tools was generated.

IP 1/09



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Performance of photovoltaic systems on non-domestic buildings

Learn how to develop a photovoltaic system to maximise energy generation performance in commercial buildings. This report uses monitoring data from real buildings and recent research, and draws on experiences within the domestic sector.

FB 60

Low flow water fittings

Will people accept them?

Understand the barriers to and enablers of water-efficient behaviour, which is essential to the appropriate installation of low flow rate appliances. This report discusses a BRE study on the acceptability of introducing low flow water fittings to homes.

FB 51

Delivering water efficiency in commercial buildings

A guide for facilities managers

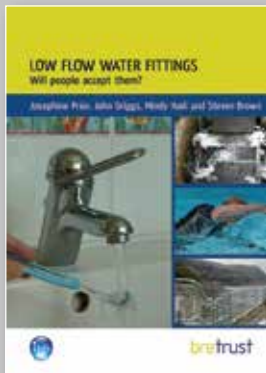
Gain an overview of the basic processes and techniques that can be used to deliver water efficiency savings through improved facilities management. This Information Paper provides guidance on how to identify the causes of poor water efficiency and make water savings in commercial buildings.

IP 6/14

Rainwater harvesting for domestic properties

Explore the different options for rainwater harvesting together with system design, components, materials and installation. This Good Building Guide will be useful to designers and building owners wanting to reduce water consumption.

GG 82



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The BRE Expert Collections provide pdf compilations of BRE Digests, Good Building and Repair Guides and Information Papers on construction topics. Each compilation includes BRE background documents and current guidance and advice on the built environment, offering **exceptional value** for construction professionals.

Air quality, radon and airtightness

The design and construction of new and existing buildings **(AP 303)**

Daylight and shading

Designing for daylight and sunlight, and shading of buildings **(AP 304)**



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What's new in 2016?

Many new titles, including:

- External fire spread
- 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