

Sustainability catalogue



Assessing the performance of Phase Change Materials in buildings

Get inside knowledge about Phase Change Materials (latent heat technology) and how they are being used in building applications. Find out what PCMs are, how they work, their benefits, current technical developments and available products.

FB 84 **COMING SOON**

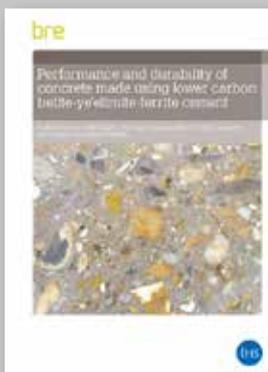


BRE Good Building Guides and Good Repair Guides

A library of information for all construction professionals

This updated CD-ROM compilation gives you access to a huge training resource of practical guidance and expertise from BRE. It contains over 150 BRE Good Building and Repair Guides in pdf format, which cover a range of topics, including: achieving airtightness, basement construction, fixing and finishing plasterboard, installing thermal insulation, loft conversion, plastering, radon protection, roofing, water services and many more!

AP 281, 2016 edition **NEW**



Performance and durability of concrete made using lower carbon belite-ye'elinite-ferrite cement

The pressure to reduce energy consumption and CO₂ emissions during cement manufacture has led to the development of novel cements based on alternative clinkers with intrinsically lower energy requirements and CO₂ emissions on manufacture than conventional Portland cement clinkers. This report focuses on Lafarge-patented Aether cements.

BR 512 **NEW**



Cracking in buildings

This book sets out basic information on the science of materials behaviour, which is relevant to understanding how and why cracks occur. This second edition updates references and other key matters that may have changed since the first edition.

BR 292, 2nd edition **NEW**

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The full cost of poor housing

There is a long-established, recognised relationship between poor housing and poor health. This report updates estimates of the cost to the NHS of living in poor housing. It builds on data originally published in 2010, which have been revised to reflect new knowledge and information that has since become available.

FB 81 **NEW**

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 **NEW**

Design of durable concrete structures

Understand the complex phenomena governing the durability and long-term performance of concrete structures, as a basis for service-life design, focusing on the behaviour of the structure and its interaction with its environment.

FB 70 **NEW**

Alkali-activated binders for precast and ready-mixed concrete products

A route map to standardisation, certification and guidance

There is a clear need for standardisation and certification of alkali-activated binders and concretes. However, there are a range of possible routes and approaches towards performance-based standards that are open to manufacturers. This Information Paper summarises the current UK position in this emerging area of construction technology.

IP 4/16 **NEW**



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Non-traditional houses: identifying non-traditional houses in the UK 1918-75

A wealth of information and advice is brought together in this comprehensive, highly illustrated CD on non-traditional houses. This unique classified reference details 450 house types, with isometric drawings, photos and supporting material.

AP 294 **BEST-SELLER**

The Green Guide to Specification

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

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

Soakaway design

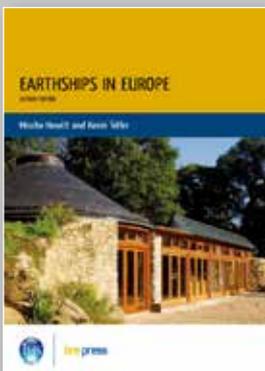
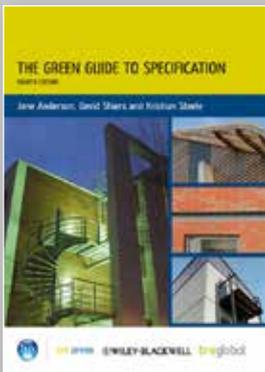
Digest 365 is one of the most widely used BRE publications, a BRE best-seller, aiding designers to support planning and development applications. This revised edition includes important changes to recommendations and requirements which have been introduced since the last edition was published in 2007.

DG 365, 2016 edition **BEST-SELLER**

Earthships in Europe

Evaluate the building of the first earthships in Europe. The new edition of this successful book, which includes case studies and post-construction monitoring, gives design recommendations to make earthships more effective in different climatic conditions.

EP 102, 2nd edition **BEST-SELLER**



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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 **BEST-SELLER**

Energy management in the built environment

Get a step-by-step approach to energy management and a powerful matrix tool for energy management initiatives with this guide, which identifies areas for improvement and prioritises energy management activities. Applicable to anyone responsible for energy management.

FB 44 **BEST-SELLER**

Changing energy behaviour in the workplace

Discover the psychological theory underpinning behaviour change and how it relates to energy use in the workplace. This guide reviews the role of feedback as a change mechanism and the use of interfaces such as eco-visualisation to motivate and maintain change, using examples from BRE research.

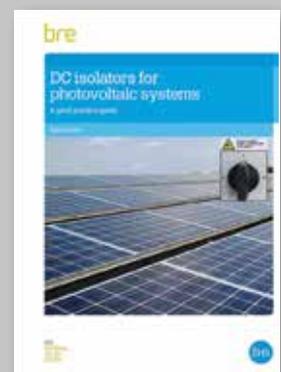
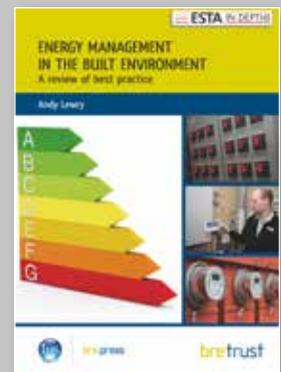
FB 73

DC isolators for photovoltaic systems

A good practice guide

Photovoltaic (PV) power systems are now commonplace. In most cases the PV systems are safe, reliable systems but incorrectly installed isolators can damage the reputation of the solar power industry, or worse, cause loss of life. This guide provides the key points to take into account when specifying direct current (DC) isolators, including standards and certifications required.

FB 68



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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



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



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

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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

Dealing with difficult demolition wastes

A guide

Get guidance on waste management routes and how to improve reuse, recycling and recovery of 'difficult' demolition wastes, such as carpet underlay, insulated concrete formwork, industrial batteries, structural insulated panels (SIPs) and smoke alarms.

FB 54

Saving money, resources and carbon through SMARTWaste

Gain an overview of SMARTWaste Plan, the online tool developed by BRE to help users to prepare, implement and review their site waste management plans. This report provides detailed performance indicators of waste arisings for both newbuild and refurbishment projects.

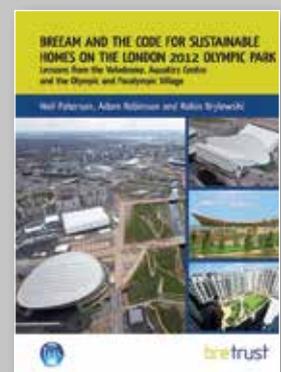
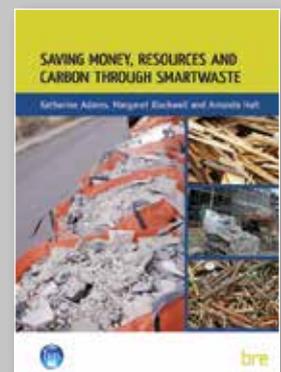
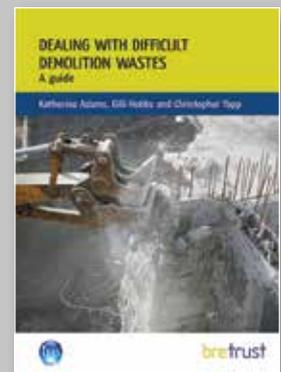
FB 48

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

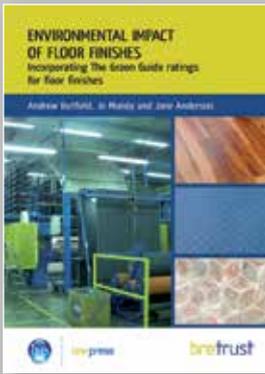
Lessons from the Velodrome, Aquatics Centre and the Olympic and Paralympic Village

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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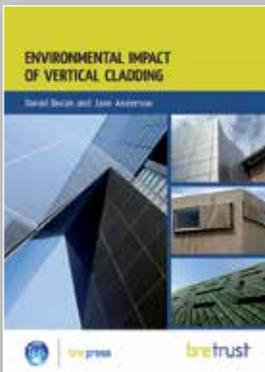


Environmental impact of floor finishes

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.

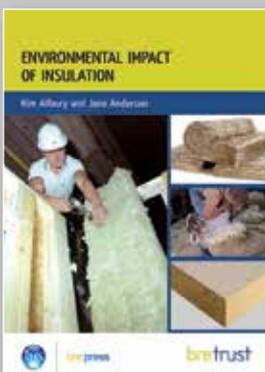
FB 39



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*.

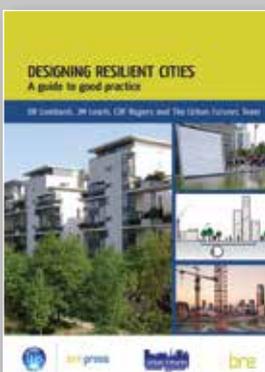
FB 38



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



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

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Lifetime Homes design guide

Learn how to design homes to meet the changing needs of households using the principles of inclusivity, accessibility, adaptability, sustainability and good value. These design solutions will enable easy adaptation and cost savings in the future.

EP 100

Hemp lime construction

A guide to building with hemp lime composites

The first complete guide to building with hemp lime, this fully illustrated book gives you numerous examples and design details to enable practical construction with this novel, sustainable material.

EP 85

Concrete in aggressive ground

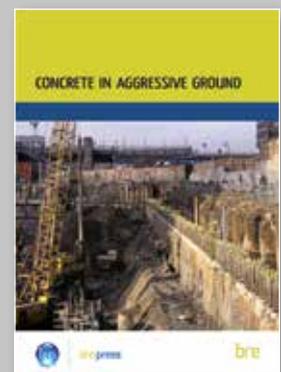
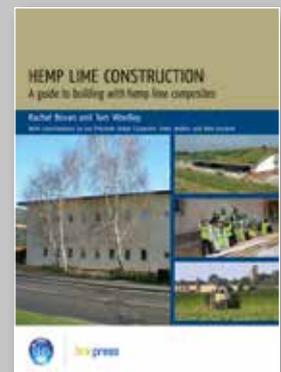
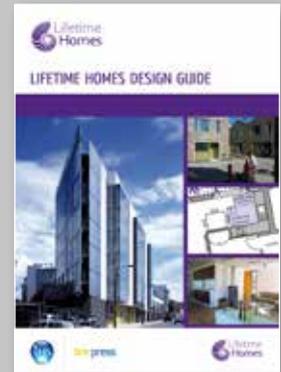
Get practical guidance on the specification of concrete for installation in natural ground and in brownfield locations. The procedures given for ground assessment and concrete specification cover the fairly common occurrence of sulfates, sulfides and acids. The more rarely occurring aggressive carbon dioxide found in some ground and surface waters is also included.

SD 1

Making the most of renewable energy systems

This BRE Digest describes the most popular renewable energy technologies included in the Microgeneration Certification Scheme. An overview of the safety, performance and reliability considerations for each technology is provided together with eligibility criteria for applicable financial incentives.

DG 531



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Renewable energy sources

How they work and what they deliver

Get an overview of different renewable energy technologies with this four-part set of Digests. The set covers photovoltaics, wood fuels, electrically driven heat pumps and solar thermal hot water systems.

DG 532, 4-part set

Building information modelling life cycle assessment

An introduction to IMPACT

Find out how BRE is approaching building-level life cycle assessment, and how it is implemented in BIM through IMPACT, a specified method designed for software developers to add functionality to new or existing BIM applications.

IP 5/15

Installation of photovoltaic panels on existing flat roofs: some lessons learned

Find out about the issues involved in the installation of photovoltaic systems on a traditional asphalt flat roof of an existing building from the planning stage through to commissioning, operation and maintenance.

IP 8/14

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

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Get a wealth of expertise with the BRE Expert Collections

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.

Newly released:

- 12 Sustainable design and assets**
Delivering a sustainable environment (**AP 314**)
- 13 Sustainability in construction**
The issues and impacts of construction (**AP 315**)



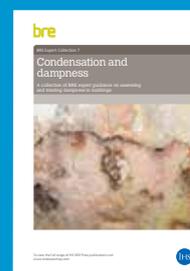
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And much more...

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