

3RD EDITION

THE GREEN GUIDE TO SPECIFICATION

Jane Anderson
David Shiers
with Mike Sinclair



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Bre Green Guide To Specification

Arthur R. Lyons



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The Green Guide to Specification Jane Anderson, David Shiers, 2009-03-09 Like its predecessors this fourth edition of The Green Guide to Specification provides designers and specifiers with easy to use guidance on how to make the best environmental choices when selecting construction materials and components. It is more comprehensive than its predecessors; it contains more than 1200 specifications used in six types of building: Commercial buildings such as offices, Educational buildings such as schools and universities, Healthcare buildings such as hospitals, Retail, Residential, Industrial. The principal building elements covered in this edition of The Green Guide to Specification include Floors, Roofs, Walls, Windows, Insulation, Landscaping. The performance of each specification is measured against a range of environmental impacts including climate change, toxicity, fossil fuel and ozone depletion, levels of emissions and pollutants, mineral and water extraction. The Green Guide to Specification provides robust information to assist decision making by translating numerical life cycle assessment data into a simple A to E scale of environmental ratings, enabling specifiers to make meaningful comparisons between materials and components. The Green Guide to Specification is an essential tool for architects, surveyors, building managers and property owners seeking to reduce the environmental impact of their buildings by informed and responsible selection of construction materials and components.

The Green Guide to Specification Jane Anderson, David Shiers, Mike Sinclair, 2008-04-15 How can you tell if the materials and components you are specifying have a low environmental impact? A full life cycle assessment is a complex, time-consuming and expensive process; the environmental ratings summarised in this Guide provide a quick and easy way for designers and specifiers to assess their options. The relative environmental performance of over 250 materials and components have been assessed in this guide using carefully researched quantitative data derived from the BRE Environmental Database. A wide range of alternative specifications are provided for walls, floor systems, floor finishes, roofs, windows, doors, ceilings, paints, insulation, landscaping. The performance of each specification is measured against a range of environmental impacts including climate change, toxicity, fossil fuel and ozone depletion, levels of emissions and pollutants, mineral and water extraction. Environmental performance is indicated by a simple to use A B C rating system. To further aid specifiers' guidance on capital costs, typical replacement intervals and information on recycling is also provided for each material and component. An important part of BREEM, the BRE's widely accepted scheme to improve the environmental performance of buildings, The Green Guide to Specification is an essential tool for architects, surveyors, building managers and property owners seeking to reduce the environmental impacts of building materials through informed choice.

Materials for Architects and Builders Arthur Lyons, 2019-08-28 Materials for Architects and Builders provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or

architecture related courses and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout This new sixth edition has been completely revised and updated to include the latest developments in materials research new images appropriate technologies and relevant legislation The ecological effects of building construction and lifetime use remain an important focus and this new edition includes a wide range of energy saving building components

Mitchell's Introduction to Building Roger Greeno, 2014-07-16 Introduction to Building provides a comprehensive introduction to various aspects of development and associated building procedures from initial planning and design through procurement of building work contractual arrangements and construction techniques Now in its Fifth Edition this popular text continues to present an authoritative overview of the many design and practical considerations associated with the creation and maintenance of modern buildings including repair of existing buildings and traditional construction procedures Topics covered include the functional requirements of a building appearance durability dimensional suitability strength and stability weather exclusion sound control thermal comfort fire protection lighting and ventilating sanitation and drainage security cost sustainability building processes the building team communication and construction methods

The Environmental Design Pocketbook Sofie Pelsmakers, 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable low energy building design at your fingertips Packed with diagrams tools and tips it cuts through the complex mass of technical data and legislation that faces the designer and distils all the key guidance into a single reference that is quick easy to use and points to the facts figures and performance data that are most important This 2nd edition is now fully up to date with the latest Building Regulations Part L and F legislation England and Wales RIBA Plan of Work 2013 new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout Whether used in the classroom office or on site the book guides the designer through the entire process from the fundamentals to the building details From future proofing for a changing climate to rainwater harvesting retrofit and zero carbon technologies the Pocketbook has got it covered

Sustainability and Evidence-Based Design in the Healthcare Estate Michael Phiri, Bing Chen, 2013-11-18 This work aims to deepen our understanding of the role played by technical guidelines and tools for the design construction and operation of healthcare facilities ultimately establishing the impact of the physical environment on staff and patient outcomes Using case studies largely drawn from the UK Europe China and Australasia design approaches such as sustainability e g targets for energy efficiency carbon neutrality reduction of waste evidence based design EBD and Post Project Evaluation PPE are examined in order to identify policies mechanisms and strategies that can promote an integrated learning environment that in turn supports innovation in healthcare

Materials for Architects and Builders Arthur R. Lyons, 2010 Bricks and brickwork Blocks and blockwork Lime cement and concrete Timber and timber products Ferrous and non ferrous metals Bitumen and flat roofing materials Glass Ceramic materials Stone and cast stone Plastics Glass fibre reinforced plastics cement and

gypsum Plaster and board materials Insulation materials Sealants gaskets and adhesives Paints wood stains varnishes and colour Energy saving materials and components Recycled and ecological materials Sustainability **Sustainable Retrofit and Facilities Management** Paul Appleby, 2013-03-05 Governments across the globe are setting targets for reducing their carbon emissions For example the UK Government has committed to an eighty per cent reduction by 2050 when twenty eight million buildings that currently exist will still be standing this represents a challenge to improve the energy efficiency of more than one building per minute between now and 2050 This is a problem that needs tackling worldwide and is a challenge to both the refurbishment sector of the global construction industry and to those who own and operate existing buildings Sustainable Retrofit and Facilities Management provides comprehensive guidance to those involved in the refurbishment and management of existing buildings on minimizing carbon emissions water consumption and waste to landfill along with enhancing the long term sustainability of a building Practical guidance is provided on measures that can be used to improve the efficiency and sustainability of existing buildings through both good management and refurbishment Also explored is the relationship between the refurbishment of existing buildings facility management and the wider community infrastructure The book looks at management tools such as post occupancy evaluation building health checks energy management software green building management toolkits and green leases Illustrated throughout with case studies and examples of best practice this is a must have handbook for engineers architects developers contractors and facility managers Architect's Pocket Book Ann Ross, Jonathan Hetreed, 2012-06-25 This handy pocket book brings together a wealth of useful information that architects need on a daily basis on site or in the studio The book is full of tips and tricks of the trade from complying with the Building Regs to helping with planning measurement and detailing This third edition is fully updated and includes new information and guidance on critical sustainable design issues Compact and easy to use the Architect's Pocket Book has sold over 40 000 copies Although conceived as a reference for architects and designers it is now just as popular with building and design professionals who do not have an architecture background but need to understand the basics fast This is a book you simply can't afford to be without Charlotte Baden Powell was trained at the Architectural Association in London She practised architecture for over 40 years during which time she identified the need for this book which was first published in 1997 Jonathan Hetreed and Ann Ross have drawn from years of experience of running a small practice in Bath to update and extend the scope of the new edition <http://www.hetreedross.com> **Architect's Pocket Book** Jonathan Hetreed, Ann Ross, Charlotte Baden-Powell, 2023-05-15 This handy pocket book brings together a wealth of useful information that architects need on a daily basis on site or in the studio It provides clear guidance and invaluable detail on a wide range of issues from planning policy through environmental design to complying with Building Regulations from structural and services matters to materials characteristics and detailing This sixth edition includes the updating of regulations standards and sources across a wide range of topics with a particular focus on sustainability issues Compact and easy to use the

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Reviewing **Bre Green Guide To Specification**: Unlocking the Spellbinding Force of Linguistics

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