



THE PROFESSIONAL **DESIGN GUIDE** to  
**Green Roofs**

Karla Dakin, Lisa Lee Benjamin & Mindy Pantiel

# The Professional Design Guide To Green Roofs

**Bruce Dvorak**



## **The Professional Design Guide To Green Roofs:**

**The Professional Design Guide to Green Roofs** Lisa Lee Benjamin, Karla Dakin, Mindy Pantiel, 2013-02-04 Until recently most green rooftop gardens were little more than variations on sedum mats on four inches of soil. Now designers are creating cutting edge green roofs that focus not only on critical environmental issues like heat storm management and ecosystem development but also on the aesthetics offering beautiful livable sustainable landscapes. The Professional Design Guide to Green Roofs is a comprehensive exploration of rooftop garden design and the process behind it. It covers everything landscape architects and garden designers need to know to create a beautiful garden in the sky. With lush photography, international examples, and solid how-to information, this is an essential resource for all design professionals. **The Green Roof Manual** Linda McIntyre, Edmund C. Snodgrass, 2010-09-14 Green roofs, the ultimate in sustainable building practices, continue to generate enormous interest and enthusiasm among architects, landscape designers, and urban planners. Increasingly strict stormwater regulations and the appeal of LEED related projects have also boosted the popularity and desirability of green roofs. Those who want to build green roofs, however, have few resources to guide them. Until now, no book has taken a comprehensive look at how to effectively adapt green roof technology to the variable and extreme North American climate and how to design projects that will function and endure as successfully as those in Germany, Switzerland, and other European countries. This book fills the gap by providing an overview of practices and techniques that have been effective in North America. The authors offer options regarding structure, function, horticulture, and logistics, as well as surveys of actual projects and analyses of why they have or haven't succeeded. Approachable and reader friendly, the manual clearly explains how these complex systems function and how to plan and carry out projects successfully from concept through construction and maintenance. Ideally suited to professionals including architects, landscape architects, engineers, and designers and their clients, it brings together key lessons from leaders in the field. Numerous photographs highlight the range of design possibilities and show green roofs both during construction and at various stages of maturity. At last, those seeking basic information about how to design and build green roofs have a concise, authoritative guide to this exciting new technology. **Materials for Architects and Builders** Arthur Lyons, 2014-08-21 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 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. Green Roof Ecosystems Richard

K. Sutton, 2015-06-04 This book provides an up to date coverage of green vegetated roof research design and management from an ecosystem perspective It reviews explains and poses questions about monitoring substrate living components and the abiotic biotic and cultural aspects connecting green roofs to the fields of community landscape and urban ecology The work contains examples of green roof venues that demonstrate the focus level of detail and techniques needed to understand the structure function and impact of these novel ecosystems Representing a seminal compilation of research and technical knowledge about green roof ecology and how functional attributes can be enhanced it delves to explore the next wave of evolution in green technology and defines potential paths for technological advancement and research     Ecoregional Green Roofs Bruce Dvorak, 2021-02-05 This book studies the application of green roofs in ecoregions of the western United States and Canada While green roofs were intended to sustain local or regional vegetation this volume describes how green roofs in their modern form are typically planted with a low diversity mix of sedums from Europe or Asia The authors demonstrate how in the western USA and Canada many green roofs have been designed with native plants and have been found to thrive Part I of this book covers theory and an overview of ecoregions and their implications for green roofs In Part II vegetation from prairies deserts montane meadows coastal meadows and scrub and sub alpine habitats are explored on seventy three ecoregional green roofs Case studies explore design concepts materials watering and maintenance wildlife plant species and lessons learned Part III covers an overview of ecoregional green roofs and a future outlook This book is aimed at professionals designers researchers students and educators with an interest in green roofs and the preservation of biodiversity     **Green Roof Systems** Susan Weiler, Katrin Scholz-Barth, 2011-09-28 Green Roof Systems goes beyond the fashionable green roof movement and provides solid information on building accessible space often as important public space over structure It offers brief coverage of the entire process including planning and collaboration and focuses on the technical aspects of these roof systems their components and their applications     **Cost-Effective Energy-Efficient Methods for Refurbishment and Retrofitting of Buildings** F. Pacheco-Torgal, Claes-Göran Granqvist, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski, 2025-01-11 Cost Effective Energy Efficient Methods for Refurbishment and Retrofitting of Buildings Materials Technologies Optimization and Case Studies provides up to date knowledge on this important research field Divided over three key parts the book s chapters cover materials and innovative technologies optimization strategies and actual case study applications that highlight the impact of different climatic conditions social factors and the economic specifications of each retrofit process Emphasis is placed on cost efficiency which is key in any energy retrofit process Taking into consideration key changes in the Energy Performance of Buildings Directive EPBD and the European Union Green Deal on Refurbishment and Renovation this book will be a valuable reference resource for materials scientists architects civil engineers and all those working on cost effective and energy efficient retrofitting and building refurbishment Discusses cost effective energy efficient methods for the refurbishment of existing buildings using state of the art technologies Includes

detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies

**Green Roof Retrofit** Sara J. Wilkinson, Tim Dixon, 2016-08-08 A deep understanding of the implications of green roof retrofit is required amongst students and practitioners to make the decisions and take the actions needed to mitigate climate changes Green Roof Retrofit building urban resilience illustrates the processes undertaken to develop this new knowledge and thereby embed a deeper level of understanding in readers Illustrative case studies and exemplars are drawn from countries outside of the core researched areas to demonstrate the application of the knowledge more broadly Examples are used from the Americas North and South and Canada Oceania Asia and other European countries The book describes the multiple criteria which inform decision making and how this provides a way forward for making better decisions about green roof retrofit in different countries and climates

**Green Roofs** Angela Youngman, 2011 This book is essential reading for everyone interested in or committed to energy efficient buildings and Introduces the range of green roofs available from the small garden shed to towering skyscrapers It discusses the role of the green roof as part of an overall greening of a building and landscape advises on types of vegetation to be grown and maintenance required warns of problems that can be encountered analyses the green roof movement reports on its success thus far and looks to the future It also describes residential and business case studies from across the world

**Cover Details and Materials for Resilient Sites** Meg Calkins, 2025-07-17 Providing comprehensive information for closing material loops and reducing carbon impacts of site construction this ground breaking book is an essential resource for landscape architects and engineers to meet the environmental challenges of the 21st century It provides strategies tools and detailed information for the practice of climate positive design Reduced carbon resource efficient materials and material mixes are addressed for both standard and alternative materials including stone concrete asphalt pavement brick earth based materials wood biobased materials metals and plastics Construction considerations are discussed and illustrated and strategies to reduce environmental impacts are offered Emphasis is placed on durable resource efficient structures and reduced embodied carbon approaches for pavements porous pavements green roofs bioengineered embankments retaining walls freestanding walls decks and boardwalks and rails fences and screens Exemplary case studies from around the world are highlighted and key resources such as assessment tools information transparency tools and benchmarking measures are provided Responding to the need for landscape architecture to account for climate change resource consumption and habitat destruction this important book is key reading for both professionals and students alike

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