

# Free ebook **The professional design guide to green roofs** **(Download Only)**

Green Roof Systems Green Walls Green Roofs The Professional Design Guide to Green Roofs Small Green Roofs Green Roof Construction and Maintenance (GreenSource Books) Living Architecture Green Roofs Ecoregional Green Roofs Green Roofs Essential Green Roof Construction A Comprehensive Guide to Green Roofs Planting Green Roofs and Living Walls What Is a Green Roof? The Green Roof Manual Green Roof - A Case Study Green Roofs and Rooftop Gardens Green Roof Ecosystems Green Roofs in Sustainable Landscape Design Green Roof Plants Green Roof Retrofit Green Roofs, Facades, and Vegetative Systems Award Winning Green Roof Designs Green Roofs Living Roofs in Integrated Urban Water Systems Green Roof Construction and Maintenance Green Roofs and Water Retention in Košice, Slovakia Living Roofs Green Roofs Green Roofs Green Roofs and Façades Building Green Building Greener Green Roofs Guidelines for the Design and Application of Green Roof Systems The Rise of Living Architecture The Small Shady Tree Growing Green Guide Green Roofs and Walls as a Solutions Supporting Urban Green Infrastructure Green Roofs Greening the Dwelling [microform] : a Life Cycle Energy Analysis of Green Roofs in Residential Buildings

## **Green Roof Systems 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

## **Green Walls Green Roofs 2014-06-25**

sustainable architecture is one of the most popular trends today with dense urban living and less green space available green walls and roofs are helping to fill that gap these living structures can be created with vegetation which helps to absorb rainwater provide insulation and lower temperatures while creating a habitat for natural flora and fauna green walls green roofs features projects from all over the world showing how these elements work in various climates ranging from the tropical houses in singapore to inner city buildings in north america this beautifully illustrated book will show you how living architecture can enrich our world gina tsarounas has coordinated and authored a number of travel guides for lonely planet before joining images publishing as a senior editor her wealth of experience is demonstrated in the beautifully designed books now being produced comparable titles vertical ecoinfrastructure 9781864703863 images publishing group august 2010 the green house 9781568989501 princeton architectural press may 2010

## **The Professional Design Guide to Green Roofs 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 issue 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

## **Small Green Roofs 2011-04-25**

until now the green roof movement has been limited to large scale professional endeavors and public buildings but homeowners everywhere are catching onto the benefits of a green roof water conservation energy savings and storm water management in small green roofs authors dunnett gedge little and snodgrass profile ordinary homeowners who scaled green roofs down to the domestic level small green roofs is the first book to focus on small scale and domestic green roofs more than forty profiles of small and domestic scale projects of all shapes and sizes include green roofs on sheds garden offices studios garages houses bicycle sheds and other small structures as well as several community projects for each project details are given for design construction and installation as well as how to tips on how the roof was planted and cared for for readers looking for inspiration when hiring a contractor or taking the adventurous step of building their own small green roofs provides the knowledge and encouragement to make it possible

## **Green Roof Construction and Maintenance (GreenSource Books) 2009-08-03**

a complete guide to building and maintaining green roofs written by an industry expert in green roof design and installation this greensource book presents all of the information you need to skillfully design construct and maintain green roofs you will find a wealth of practical details gathered through real world implementations and independent research green roof construction and maintenance explains how to design a green roof plan for irrigation and drainage select and place soil and plants and maintain the entire setup the book also discusses return on investment leed design specifications and the myriad short and long term environmental benefits of green roofs filled with step by step illustrations and full color photographs this is a valuable hands on guide to a rapidly emerging trend in the sustainability movement green roof construction and maintenance includes key questions to ask at each stage of the green building process tested tips and techniques for successful structural design construction methods for new and existing buildings information on insulation drainage detailing irrigation and plant selection details on optimal soil formulation illustrations featuring various stages of construction best practices for green roof maintenance a survey of environmental benefits including evapo transpiration storm water management habitat restoration and improvement of air quality tips on the leed design and certification process considerations for assessing return on investment color photographs of successfully installed green roofs useful checklists tables and charts

## **Living Architecture 2011**

extensively illustrated with photographs and drawings living architecture highlights the most exciting green roof and living wall projects in australia and new zealand within an international context

## **Green Roofs 2005**

examine possibilities for city wide green roof development using 335 color photographs 40 in depth building case studies and 7 municipal case studies of berlin tokyo london portland chicago toronto and new york this book includes an opening essay by william mcdonough an architect and leader of the sustainable development movement and details the ecological benefits technical requirements architectural history and design possibilities of vegetated rooftops

## **Ecoregional Green Roofs 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 Roofs 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

## **Essential Green Roof Construction 2021-11-09**

simple green roof design and installation for the do it yourself builder essential green roof construction is a comprehensive in depth guide to building simple green roofs for houses and small buildings packed with detailed photos illustrations case studies and code compliance advice it offers clear step by step instructions necessary to create your own living roof on a new build or as a retrofit coverage includes the benefits of a green roof the basics of planning and design assessing site conditions such as aspect slope and loads navigating building codes and working with building officials material options including professional grade and economical or local alternatives planting suggestions for different roof climates and conditions including food production when to call on professionals to ensure safety and integrity step by step guidance for safe roof installation and detailing annual green roof maintenance where common sense meets beauty a green roof is a system of layers that work together to support plant life insulate homes and make the world a greener place essential green roof construction will give you the knowledge and confidence to install your own green roof

## **A Comprehensive Guide to Green Roofs 2024**

discusses the practical techniques required to make planting on roofs and walls a reality from modifying roofs to bear the weight of vegetation to selecting suitable plant materials

## ***Planting Green Roofs and Living Walls 2008-04-15***

what is a green roof is a captivating and beautifully illustrated picture book that covers the history of green roofs their environmental benefits and where you can locate them in new york city

## ***What Is a Green Roof? 2020-02-02***

green roofs the ultimate in sustainable building practices continue to generate enormous interest and enthusiasm among architects landscape designers and urban planners here 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

## ***The Green Roof Manual 2010***

green roofs are the great green hope of many environmentalists politicians and architects interested in more efficient and environmentally aware buildings from a design standpoint however there is less consensus while some see the roof garden as a visual statement using plants geometric lines and sculptural elements others believe concerns for sustainability should outweigh visual appeal a green roof that combines aesthetics and mechanics has become the goal of many a landscape architect in green roof gardens author christian werthmann explains the history methodology and design process of green roof garden construction providing a rich source of inspiration and technical knowledge in the process for anybody interested in this simple solution to many of the environmental challenges we face today

## ***Green Roof - A Case Study 2007-08-30***

green roofs and rooftop gardens a detailed look at why and how urban rooftops are going green living roofs cool the air reduce water pollution extend roof life and cut energy costs they also provide green space for city dwellers and habitat for birds and insects long popular in europe this building technique is now catching on in the u s most recently in new york city green roofs and rooftop gardens tells the stories behind some of the city's most interesting living roofs and explains how such roofs are constructed planted and cared for what's inside profiles of a wide range of nyc green roofs including a rooftop farm in queens a high school classroom in the bronx and brooklyn botanic garden's visitor center a history of how the technique evolved a detailed primer on construction methods information on selecting establishing and caring for the special best suited for living roofs practical advice for creating a rooftop container garden or bringing a green roof to your school book jacket

## **Green Roofs and Rooftop Gardens 2012**

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

## **Green Roof Ecosystems 2015-06-04**

green roofs defines the types of green roofs both extensive and intensive introduces the vocabulary of green roofs details the components available describes the design and development process lists recommended plant materials and explains methods of installation irrigation and maintenance approximately 70 vivid and detailed case histories of major projects in europe where green roofs began and contemporary examples throughout north america copiously and beautifully illustrated with almost 400 images make this book an invaluable guide to the state of the art book jacket

## **Green Roofs in Sustainable Landscape Design 2008-10-14**

a guide for architects landscape designers engineers environmentalists and eco aware gardeners this text contains photographs and information for more than 200 species and cultivars of plants including data on moisture needs heat tolerance hardiness bloom color foliage characteristics and height

## **Green Roof Plants 2006-10-15**

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 Roof Retrofit 2016-08-08**

green roofs facades and vegetative systems safety aspects in the standards analyzes codes standards and official documents from countries around the world including the united states and canada in north america germany france and italy in europe and australia singapore japan and thailand in asia this essential resource for building design professionals covers a full range of living technologies such as vegetative systems green architecture urban design construction efficiency facades fire protection sustainability aspects in buildings landscape design tall buildings and wind design the book provides an invaluable tool on international codes and standards and how to incorporate them into projects provides expert advice for complying with the international codes and standards governing the use of green living technology covers codes and standards for façades fire protection landscape design and wind design includes case studies and excerpts from major international codes and standards peer reviewed by some of the top experts and construction firms currently applying this technology around the world

## **Green Roofs, Facades, and Vegetative Systems 2020-11-25**

projects and award winners solaire building island house north beach place yorktowne square condominiums eastern village co housing condominiums seapointe village deck restoration 10th hoyt apartments lot 8 santa lucia preserve the louisiana ducks unlimited national headquarters oak hammock marsh interpretive centre peggy notebaert nature museum the church of jesus christ of latter day saints convention center oaklyn library evansville vanderburgh public library the green institute phillips eco enterprise center mashantucket pequot museum and research center nashville public square sanitation district no 1 901 cherry st montgomery park garden room burnham park ford rouge dearborn truck plant millennium park heinz 57 center 601 congress street abn amro plaza calamos investments

## **Award Winning Green Roof Designs 2008**

green roofs are vegetated roof covers which can improve stormwater management increase green space in dense urban areas and help reduce a building's contribution to the heat island effect this manual is an overview of international and canadian green roof policies and programs it features 12 jurisdictions that demonstrate leadership in green roof policy development and shows how other canadian and u s cities are developing supportive policies by reviewing the reasons municipalities throughout the world have set green roof policies and programs policy makers can better determine which policies suit their needs

## **Green Roofs 2006**

with the infrastructure to manage storm water threats in cities becoming increasingly expensive to build or repair the design community needs to look at alternative approaches living roofs present an opportunity to compliment ground level storm water control measures contributing to a holistic integrated urban water management system this book offers tools to plan and design living roofs in the context of effectively mitigating storm water quantitative tools for engineering calculations and qualitative discussion of potential influences and interactions of the design team and assembly elements are addressed

## **Living Roofs in Integrated Urban Water Systems 2015-03-05**

this book discusses how climate change and heat islands are a main contributor to water related problems in urban areas in košice slovakia green roofs are used as a tool to assist in solving these water related issues the need to provide housing in urban areas is expected to rise to 66 in 2050 according to the united nations many urban areas have seen natural permeable green areas replaced with concrete constructions and hard non permeable surfaces the densification of existing built up areas is responsible for the decreasing vegetation which results in the lack of evapotranspiration cooling the air thereby creating urban heat islands several studies discussed in this book have shown that natural and permeable surfaces as in the case of green roofs can play a crucial role in mitigating this negative climate phenomenon and providing higher efficiency for buildings leading to savings such as water one of the focal points of this research

## **Green Roof Construction and Maintenance 2009**

an inspiring selection of verdant sanctuaries high above the hubbub of the city from lush flower gardens to luxurious rooftop terraces boasting minimalist designs the urban rooftop oasis trend continues unabated up to date and garden fresh revised and updated with the latest innovations and creations offers a glimpse through the keyhole at the most beautiful private rooftop terraces from all around the world a green paradise high above the city's rooftops is something so many people dream of including those living in cities and searching for peace and quiet whether it's a communal garden for an entire building or an exclusive personal and private oasis a colorful sea of flowers home grown vegetables or a pool there are no limits when it comes to the imagination of amateur gardeners this book of photographs showcases the most beautiful and varied urban rooftop terraces and exotic garden paradises from all around the world from the berlin country garden and the sprawling sundeck of the u penthouse in madrid to the enchanting rooftop expanse of the willow house in singapore the featured locations both unusual and individual offer ample inspiration for your own dreams of a rooftop garden just sit back and enjoy this gorgeous book on your sundeck or in your cozy alcove

## **Green Roofs and Water Retention in Košice, Slovakia 2019-09-25**

an accessible overview of the development of green roofs and their contribution to sustainable development explains the benefits of their use and identifies key aspects to consider in designing building and maintaining them

## **Living Roofs 2022-04-11**

green roofs and walls are used in many countries to provide a range of benefits for the built environment this book provides guidance on their design construction and operation it also describes how quick wins for biodiversity can be achieved in the built environment by incorporating nesting and roosting boxes for birds and other animals

## **Green Roofs 2007**

in a green roof a layer of vegetation e.g. a roof garden covers the surface of a roof to provide shade cooler indoor and outdoor temperatures and effective storm water management to reduce runoff the main components are waterproofing soil and plants there are two basic kinds intensive and extensive an intensive green roof often features large shrubs and trees and it can be expensive to install and maintain an extensive green roof features shallow soil and low growing horizontally spreading plants that can thrive in the alpine conditions of many rooftops these plants do not require a lot of water or soil and they can tolerate a significant amount of exposure to the sun and wind this federal technology alert focuses on the benefits design and implementation of extensive green roofs and includes criteria for their use on federal facilities

## **Green Roofs 2009**

green roof systems are living vegetation installed on roofs and can provide many environmental and social benefits for achieving low carbon highperformance building they can make cities more liveable by providing green spaces mitigating urban heat islands uhi reducing air quality problems enhancing stormwater management and increasing biodiversity green roofs offer an important way forward in urban greening bringing natural wildlife back into the urban realm and providing much needed ecosystem services to the built environment our cities and towns need to embrace green roofs to ensure that we adapt and mitigate our impact on the environment to achieve a liveable quality and sustainable built environment

## **Green Roofs and Façades 2006**

gives voice to more than fifty extraordinary people who are currently engaged with this transformation these individuals form a diverse community that cuts across professional disciplines cultural linguistic and geographical boundaries they share a belief that they can make a difference through their varied efforts to expand living architectural approaches that result in biophilic restorative buildings and healthier and more resilient communities

## **Building Green 1993**

this is a light hearted story for children ages 3-103 that promotes diversity believing in ones self that good things happen when odds are against you it also introduces ideas and wonderment regarding green roof environmental projects that are being promoted in cities all over the world today promoting education roof top gardens and green roofs the small shady tress new home is on a roof of a building in an urban setting roof top gardens or sometimes called green roofs started to develop in europe over 40 years ago roof top gardens have recently started to be developed in many united states cities such as chicago portland and atlanta chicago's city hall was one of the earliest green roofs to be developed green roofs and roof top gardens can be partially or fully covering a roof and bring several benefits such as more enjoyable and usable space for building occupants more wild life in urban areas such as butterflies or birds provide areas to grow flowers fruits or vegetables assist with cooling heating and even storm run of water green roofs and improve roof life span the small shady trees new home is on a green roof that is helping improve our environment

## **Building Greener 2007**

the information published in this guide is provided by the growing green guide partners city of melbourne city of stonnington city of yarra city of port phillip the state of victoria and the university of melbourne to disseminate information in regards to the design construction and maintenance of green roofs walls and facades

## **Green Roofs 2004**

the benefits provided by planted roofs are unquestionable from the ecologic and social perspective they have a positive effect over the urban microclimate as well as on the indoor environment of the buildings however further analyses are needed to

evaluate the influence of the physical characteristics of the roof materials on the thermal performance of the green roof as well as the environmental implications of the green roof on the building's life cycle this study analyzes the energy performance of a green roof in a residential building in Madrid the study was conducted in two phases during the first phase four different roofing systems were compared the annual and the peak energy consumption were calculated during the second phase the energy results obtained were used to conduct a comparative life cycle assessment of the building with the different roofing systems comparing their associated environmental impact

## **Guidelines for the Design and Application of Green Roof Systems 2013**

## **The Rise of Living Architecture 2012**

## ***The Small Shady Tree 2008-09***

## **Growing Green Guide 2014**

## **Green Roofs and Walls as a Solutions Supporting Urban Green Infrastructure 2020**

## **Green Roofs 2006**

## **Greening the Dwelling [microform] : a Life Cycle Energy Analysis of Green Roofs in Residential Buildings 2004**

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