

This is a guidance document with sample specification language intended to be inserted into project specifications on this subject as appropriate to the agency's environmental goals. Certain provisions, where indicated, are required for U.S. federal agency projects. Sample specification language is numbered to clearly distinguish it from advisory or discussion material. Each sample is preceded by identification of the typical location in a specification section where it would appear using the SectionFormat™ of the Construction Specifications Institute.

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## SECTION 07500 – MEMBRANE ROOFING

### SPECIFIER NOTE:

*resource management:* Membrane manufacturers are developing products fabricated from post-consumer materials. Refer to Section 07300 for additional information.

*toxicity/IEQ:* The cold adhesives used in adhesive application of roofing membranes are generally volatile chemicals. Roofing adhesive that is water-based and/or low-VOC is available. Refer to Section 06600 – Plastic Fabrications for information regarding plastics.

*performance:* Provide light colored roof surfaces to improve albedo. Membrane roofing is difficult to recycle because of the variety of materials involved and because those materials are generally adhered to each other. While reuse and recycling of membrane roofing is not typical, it is possible. Mechanically fastened membranes are easier to disassemble in the future; facilitating recycling of membrane and of substrate. Installation of a layer of sheathing between roofing insulation and roofing membrane, may allow for membrane removal without damage to insulation. FEMP maintains recommendations for roofing materials at [http://www.eere.energy.gov/emp/technologies/esp\\_roof\\_products.cfm](http://www.eere.energy.gov/emp/technologies/esp_roof_products.cfm)

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes:
  - 1. [EPDM] [PVC] [TPO] [xxxx] roofing system.
- B. Related Sections:
  - 1. Section 07200 – Thermal Protection: Board insulation.
  - 2. Section 13600 – Solar and Wind Energy Equipment: Photovoltaic roofing.

### 1.2 SUBMITTALS

- A. Product data. Unless otherwise indicated, submit the following for each type of product provided under work of this Section:

### SPECIFIER NOTE:

Green building rating systems often include credit for materials of recycled content. USGBC-LEED™ v2.2, for example, includes credit for materials with recycled content, calculated on the basis of pre-consumer and post-consumer percentage content, and it includes credit for use of salvaged/recovered materials.

Green Globes US also provides points for reused building materials and components and for building materials with recycled content.

- 1. Recycled Content:
  - a. Indicate recycled content; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.

# Federal Green Construction Guide

**Daniel R. Cahoy, Jamison E. Colburn**



## **Federal Green Construction Guide:**

**Green Building Materials** Ross Spiegel,Dru Meadows,2010-11-09 GREEN BUILDING MATERIALS THE ULTIMATE USER S MANUAL TO GREEN BUILDING MATERIALS To properly select and specify green building materials successful architects need authoritative real world advice on how to select and use nontoxic recycled and recyclable products and how to integrate these products into the design process in order to capitalize on the many practical and economic advantages of going green Green Building Materials Third Edition is the most reliable up to date resource to meet today s green building challenges from reducing waste and improving energy efficiency to promoting proper code compliance and safeguarding against liability claims Written by two nationally known experts on green building methods and materials Green Building Materials Third Edition offers in depth practical information on the product selection product specification and construction process This new Third Edition is an excellent hands on guide to today s newest range of green building materials what they are where to find them how to use them effectively and how to address LEED requirements Organized by CSI MasterFormat category for fast access to specific information it features A new chapter on eco labels green standards and product certification A new appendix providing reference information for sustainability standards and standards development organizations New sample specifications including green power requirements vegetated green roof systems rainwater harvesting and water reuse systems Revised and updated review of trends affecting the future of green building materials Updated approach and reference information for the product selection process Green Building Materials Third Edition is an essential tool for designing environmentally friendly buildings ones made from materials that preserve the Earth s natural legacy for future generations

**Federal Green Construction Guide for Specifiers** ,2004

**Green Building Materials** Ross Spiegel,Dru Meadows,2010-10-19 GREEN BUILDING MATERIALS THE ULTIMATE USER S MANUAL TO GREEN BUILDING MATERIALS To properly select and specify green building materials successful architects need authoritative real world advice on how to select and use nontoxic recycled and recyclable products and how to integrate these products into the design process in order to capitalize on the many practical and economic advantages of going green Green Building Materials Third Edition is the most reliable up to date resource to meet today s green building challenges from reducing waste and improving energy efficiency to promoting proper code compliance and safeguarding against liability claims Written by two nationally known experts on green building methods and materials Green Building Materials Third Edition offers in depth practical information on the product selection product specification and construction process This new Third Edition is an excellent hands on guide to today s newest range of green building materials what they are where to find them how to use them effectively and how to address LEED requirements Organized by CSI MasterFormat category for fast access to specific information it features A new chapter on eco labels green standards and product certification A new appendix providing reference information for sustainability standards and standards development organizations New sample

specifications including green power requirements vegetated green roof systems rainwater harvesting and water reuse systems Revised and updated review of trends affecting the future of green building materials Updated approach and reference information for the product selection process Green Building Materials Third Edition is an essential tool for designing environmentally friendly buildings ones made from materials that preserve the Earth's natural legacy for future generations

**Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations** Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations

*The Green Library Planner* Mary M. Carr, 2013-09-11 Green buildings are better buildings In fact buildings use 36% of the energy in the United States according to the Environmental Protection Agency so green buildings that use less energy help to address the very real challenges of reliance on fossil fuel and climate change More than only being environmentally responsible green libraries are beautiful cost effective high performance buildings that enhance occupant health and comfort The Green Library Planner is designed for members of library building design teams who typically are not actively engaged in architecture construction or engineering but who need an introduction to the rationale for green buildings the elements of green building and the language of the field It will be equally useful for public officials boards or administrators who are considering a new green library building a renovated library structure or sustainable elements for a current library facility Mary M Carr a library director who is also a LEED Accredited Professional with national certification first introduces the basic tenets of green building She then covers the gamut of green building from design through all phases of construction or renovation to operations and maintenance Chapter highlights include Fundamentals of Sustainable Building The Importance of Place Energy and Lighting Indoor Environmental Quality Water Conservation and Quality Sustainable Construction Management Techniques Commissioning Sustainable

Operations and Maintenance With this information the librarian and related library staff and administrators will be able to design build or renovate and operate the library in the best way possible while considering the environmental and economic challenges faced locally and globally in the 21st century

**Planning & Designing Health Care Facilities in Developing Countries** Shashikant Sharma,Saurabh Singh,2024-07-16 Building a clinically integrated workplace with a high level of clinical competence requires careful considerations of Hospital Planning For greenfield or brownfield hospital projects clinicians and C Suite executives need to acquire capabilities to address the planning needs of any organization This book aims to provide both theoretical and practical inputs for the Planning Designing of Health Care Facilities in Developing Countries It clearly indicates the steps to be followed facts to be weighed and components to be considered to arrive at a correct planning solution With health reform looming and the revenue base shifting rapidly we need to integrate patient safety concerns in the design process Key Features Liberal use of tables and figures to support conclusions illustrate concepts and display quantitative information making it easier for readers to understand and refer to large quantities of data Integrates the international norms for planning and designing health care facilities into the developing country setting Handbook and ready reckoner for C Suite executives hospital engineers project consultants and hospital administration students

**Microbiomes of the Built Environment** National Academies of Sciences, Engineering, and Medicine,National Academy of Engineering,Division on Engineering and Physical Sciences,Health and Medicine Division,Division on Earth and Life Studies,Board on Infrastructure and the Constructed Environment,Board on Environmental Studies and Toxicology,Board on Life Sciences,Committee on Microbiomes of the Built Environment: From Research to Application,2017-10-06 People s desire to understand the environments in which they live is a natural one People spend most of their time in spaces and structures designed built and managed by humans and it is estimated that people in developed countries now spend 90 percent of their lives indoors As people move from homes to workplaces traveling in cars and on transit systems microorganisms are continually with and around them The human associated microbes that are shed along with the human behaviors that affect their transport and removal make significant contributions to the diversity of the indoor microbiome The characteristics of healthy indoor environments cannot yet be defined nor do microbial clinical and building researchers yet understand how to modify features of indoor environments such as building ventilation systems and the chemistry of building materials in ways that would have predictable impacts on microbial communities to promote health and prevent disease The factors that affect the environments within buildings the ways in which building characteristics influence the composition and function of indoor microbial communities and the ways in which these microbial communities relate to human health and well being are extraordinarily complex and can be explored only as a dynamic interconnected ecosystem by engaging the fields of microbial biology and ecology chemistry building science and human physiology This report reviews what is known about the intersection of these disciplines and how new tools may facilitate advances in understanding the

ecosystem of built environments indoor microbiomes and effects on human health and well being It offers a research agenda to generate the information needed so that stakeholders with an interest in understanding the impacts of built environments will be able to make more informed decisions

**Law and the Transition to Business Sustainability** Daniel R. Cahoy, Jamison E. Colburn, 2014-06-30 This book expands on law related research by examining the legal aspects of sustainability with a focus on the impact on business strategies It recognizes that firms must adopt an integrated approach to law and sustainability considering multiple disciplines and goals and serve as a forum for bringing together scholarship from fields such as environmental law energy government regulation and intellectual property Firms increasingly have an interest in transitioning to sustainable business practices that take into consideration the fact that global resources are finite and will be increasingly scarce They acknowledge that current actions have social economic and environmental consequences and employ options to ensure that future generations have the same options and benefits Examples of sustainable practices increasingly employed by firms include the institutionalization of whole life cycle analysis in marketing and product design utilization of sustainable inputs and energy sources tracking and reporting sustainability performance attempting the valuation of future generation prosperity and happiness as a discounting mechanism and integrating sustainability into firm culture and management goals It is clear that law and regulation have an extremely important role to play in the transition to more sustainable business practices Broadly stated law can provide structure for firms responding to forces that pull transition by enabling sustainability leadership and competitive advantage through funding models intellectual property rights and collaboration means Additionally law can work to push transition by compelling firms to act through regulatory structures accounting and governance mechanisms

**The Engineering Guide to LEED-New Construction (Green Source)** Liv Haselbach, 2008-03-05 The Engineering Guide to LEED New Construction provides a solid understanding of the U S Green Building Council s LEED New Construction rating system explaining step by step how to apply it to real world construction projects

**Total Construction Project Management, Second Edition** George Ritz, Sidney Levy, 2013-02-12 The most comprehensive up to date construction project management system Fully revised for the latest technologies and standards Total Construction Project Management Second Edition provides a proven framework for completing construction jobs as specified on schedule and within budget You ll learn how to plan organize and control each stage of a project from initiation to close out This updated edition integrates important new trends such as technological interoperability seamless electronic information exchange Building Information Modeling BIM and sustainable building practices Real world case studies and customizable sample construction documents are included in this practical guide Inside you ll find field tested methods for Preparing project bids and proposals Negotiating contracts Project planning and initiation Scheduling construction Estimating budgeting and cost control Project organization and control Construction project execution Integrating the latest technologies including BIM and electronic information exchange Green building and sustainable

construction Construction safety and health Project communications Managing human factors      *Standardization News*  
American Society for Testing and Materials,2007      *Handbook of Green Building Design and Construction* Sam  
Kubba,2012-10-11 Packed with conceptual sketches and photos real world case studies and green construction details  
*Handbook of Green Building Design and Construction* provides a wealth of practical guidelines and essential insights that  
will facilitate the design of green buildings Written in an easy to understand style the Handbook draws on over 35 years of  
personal experience across the world offering vital information and penetrating insights into two major building rating  
systems such as LEED and BREEAM both used extensively in the United States Europe Asia and the Middle East Develop a  
project schedule that allows for systems testing and commissioning Create contract plans and specifications to ensure  
building performance A step by step approach for integrating technologies into the different stages of design and execution

**Journal of Environmental Law and Litigation** ,2012      **Professional Memoirs, Corps of Engineers, United**  
**States Army and Engineer Department at Large** ,2004      *Preparing a Building Service Life Plan for Green Buildings*  
Dru Meadows,2014-05-22 Expert guidance on developing a green building service life plan Filled with step by step  
instructions *Preparing a Building Service Life Plan for Green Buildings* explains how to create a framework for managing the  
performance requirements and life cycle impacts including end of life of major building elements for the duration of a green  
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Elevators and lifts Plumbing HVAC and electrical Fire protection Pedestrian paving Site development fences retaining walls  
fountains and other site improvements Storm sewer      *Green Building Smartmarket Report* ,2006      **Water Treatment**  
**Plant Design, Fifth Edition** American Water Works Association,American Society of Civil Engineers,2012-06-22 THE MOST  
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*A Manual of the Federal Trade Commission* Richard Selden Harvey, Ernest Wilder Bradford, 1916

*Water Treatment Plant Design 5/E* American Water Works Association, American Society of Civil Engineers, 2012-07-10

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Adoption of Green Building Guidelines in the Developing Countries Based on U.S. & India Experiences Varun Potbhare, 2008



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