

Final Design Checklist

Criteria		Requirements	Confirm Planned Compliance	Required Documentation
Building Envelope				
A1	Wall Insulation	Above Ground: Min. ETR = R30 (5.28) Below Ground: Min. ETR = R20 (3.52)	☐	Complete assembly drawings with effective R value calculations
A2	Roof Insulation	Flat Roof: ETR R40 (7.04) Peaked Roofs - Ceiling below Attic: ETR R68 (12)	☐	Complete assembly drawings with effective R value calculations
A3	Floor Insulation	Over Heated Space: Min. ETR = R35 (6.17) Unheated Floors below and above frost line: Min. ETR = R31.1 (5.96) Heated Floors below grade and in contact with ground: Min. ETR = R21.1 (3.72)	☐	Complete assembly drawings with effective R value calculations
A4	Airtightness	Buildings following ABC Part 9: 1.5 ACH @ 50Pa Buildings following NECB: 0.25LU/m² @ 50Pa	☐	Envelope air barrier details
A5	Window Thermal Transmittance	Max U2i = 1.6	☐	Window schedule on drawings or from supplier
A6	Window to Wall Ratio	Max WWR = 60%	☐	Calculation of window to wall ratio
Energy Systems				
B1	Heat Recovery Ventilator Effectiveness	HRV's with min effectiveness of 80% for all units.	☐	HRV cutsheet or note on drawings for performance of HRV
B2	Heat Recovery Ventilator Preheat	No electric preheat, use HRV with built-in defrost for frost control.	☐	HRV cutsheet or note on drawings for performance of HRV
B3	Sealed Ductwork	Seal ductwork thoroughly along all seams, joints, connections, penetrations, etc.	☐	None
B4	Circulation Pumps (where hydraulic heating systems are provided)	Use variable speed circulation pumps. For Hydronic Loops serving HP, reduce pump speed when less than full flow is needed.	☐	None
B5	Heating Controls	Provide smart room thermostats that are programmable, self-adjusting, have occupancy detection, etc.	☐	None
Sustainable Building Features				
C1	Water Efficient Fixtures and Fittings	Maximum flow rates: • WCs: 4.2 litres per flush or 6/3 litre dual flush • Lavatory faucets: 5.7 litres per minute • Kitchen faucets: 6.8 litres per minute • Showerheads: 7.5 litres per minute	☐	None
C2	Water Efficient Appliances	Water Efficiency standards: • Clothes washers to be Energy Star front-loading or condensing combination wash/dry units less than 25 litres/cycle/cubic foot. • Dishwashers to use less than 20 L of water per load.	☐	None
C3	Energy Efficient Appliances	Major appliances shall be "Energy Star" rated, including: • Fridge • Dishwasher • Stove • Washing Machine/Dryer	☐	None
C4	Air Filtration	Install minimum MERV 8 air filtration on all central air handling systems.	☐	Drawings indicating requirements
C5	Solar-ready Trusses	Provide photovoltaic certified trusses for peaked roofs.	☐	None
C6	Post Construction Building Flush	After all construction and prior to occupancy perform a full building flush for at least 48 hours at maximum outdoor air setting. Provide new filters in the air handler after the flush is complete.	☐	None
C7	Construction Waste Reduction	Include a comprehensive recycling program during construction including education, site signage and separate bins for at least cardboard, wood and drywall.	☐	None

Green Building Checklist

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Green Building Checklist:

Choosing Green Jerry Yudelson, 2008-05-01 Energy efficient non toxic healthy homes are the hottest trend in the building industry Homebuilders are constructing green homes in astonishing numbers nearly 200 000 in the US alone in 2006 How does a home buyer who wants a green home know what to look for what questions to ask a builder which green home rating systems to trust and what homes are on the market Nationally recognized green building expert Jerry Yudelson provides answers to some common areas of concern including Energy efficient home features Water conservation fixtures Non toxic finishes Green products Healthy indoor air Drawing from the expertise of dozens of homebuilders government officials and green home experts Choosing Green deftly takes the reader through these considerations with easy to use tables charts maps score sheets and checklists The book includes a glossary of green building terms an extensive resource section and a list of homebuilders green rating programs and financial incentives This comprehensive book provides homebuyers with everything they will need to make a successful search for their own green home **ICSBE 2022** Ranjith Dissanayake, Priyan Mendis, Kolita Weerasekera, Sudhira De Silva, Shiromal Fernando, Chaminda Konthesingha, Pradeep Gajanayake, 2023-08-09 This book highlights the latest knowledge and innovations in the fields of civil engineering and construction industry striving for a sustainable built environment It consists of high quality and innovative research findings selected from the proceedings of the 13th ICSBE 2022 under the themes of sustainable construction urban green infrastructure and planning rainwater harvesting and water conservation high performance concrete indoor environmental quality and indoor plants wind and hydro power energy waste and wastewater management for enhanced sustainability impacts of climate change carbon footprint global climate model and landscaping material flows and industrial ecology sustainable materials etc *Greening Spaces for Worship and Ministry* Mark A. Torgerson, 2012-05-04 Greening Spaces for Worship and Ministry is a comprehensive guide The book provides a rationale strategies and resources for fulfilling environmental stewardship through the land and buildings of Christian and Jewish congregations New construction renovation and historic preservation projects are addressed Site development material choices energy generation and consumption water use interior air quality green cleaning programs and beauty are discussed Ten congregations from across the United States and Canada are featured as examples of excellence in creation care in and through their built environments *Guide to Green Building Rating Systems* Linda Reeder, 2010-03-29 The one stop guide for choosing a green building rating system Today sustainability is a growing concern for the architects designers builders and owners of commercial and residential buildings Meeting the requirements of a rating system provides a metric to evaluate and set priorities But the variety and complexity of methods available to assess the eco friendliness of a building can seem overwhelming Guide to Green Building Rating Systems informs readers about the rating system selection process Comparing essential issues such as cost ease of use and building performance this book offers solid guidance that will help readers find

the rating system that best fits their needs This easy to follow reference includes An overview of the major national rating systems including LEED Green Globes the National Green Building Standard and ENERGY STAR An in depth look at each rating system including its evolution objectives point structure levels of certification benefits and shortcomings How the ratings systems work for different types of buildings commercial multi family residential and single family residential construction Illustrated case studies from different climate regions with project descriptions cost data and lessons learned by design teams constructors and owners An overview of local regional and international rating systems Guide to Green Building Rating Systems demystifies complex material making this book an essential reference for building professionals engaged in or wishing to pursue sustainable building practices *Principles of Building Commissioning* Walter T. Grondzik,2009-03-03 Commissioning is coming of age Savvy building owners have adopted commissioning as an effective way to improve the facility acquisition process Green building initiatives have embraced commissioning as a way of assuring quality in the delivery of high performance buildings This long established quality control process for building mechanical systems is emerging as a broader construction management tool improving nearly all aspects of a project What exactly is this thing called commissioning *Principles of Building Commissioning* answers this fundamental question with the first all inclusive practical guide to the application of the principles of commissioning The book clarifies the underlying philosophy of commissioning the why what when and who of this process Shaped by the ASHRAE Guideline 0 view of the world of commissioning *Building Commissioning* Maps out the territory of commissioning Outlines its defining characteristics Explains its flow of processes Demystifies its documentation Making the fundamentals of commissioning accessible to all parties building owners and operators architects and engineers users and suppliers who may be called upon to join the commissioning team for a particular project *Building Commissioning* serves as the professional s road map to the commissioning process from the predesign phase through occupancy *Green Buildings Checklist* British Columbia. Ministry of Finance and Corporate Relations,2000 **LEED Practices, Certification, and Accreditation Handbook** Sam Kubba,2009-09-23 Adopted in the United States and a number of other countries LEED certification is the recognized standard for measuring building sustainability Achieving LEED personal certification or project certification is the best way to demonstrate that the project is truly green Written by an architect with over 30 years of international experience this book provides architects designers building owners and construction engineers with an easy to understand guide to the nuts and bolts of LEED project and personal certification Written in plain and easy to understand language this hands on book is designed to assist readers with all aspects of LEED certification The handbook follows the rigorous third party commissioning process beginning with basic LEED concepts and then carefully explains LEED documentation and technical requirements along with its standards professional accreditation and codes The handbook provides readers with design strategies for sustainable site selection and design process for high performance building and commissioning Other

important topics include green materials and products selection as well as strategies for ensuring Indoor Environmental Quality IEQ water efficiency and sanitary waste disposal This handbook also offers readers a multitude of forms with expert guidance for their completion Clear and authoritative in scope LEED Practices Certification and Accreditation Handbook provides architects builders owners construction managers and engineers with a reference that will help them to offer their clients peers and the public at large compelling proof that they have achieved their projects environmental goals and that the building is performing as designed Instruction for completing LEED checklist and forms Detailed explanation of the third party commissioning process Explains LEED documentation technical requirements Topics include green materials and products selection

A State-by-state Guide to Construction & Design Law Carl J. Circo, Christopher H. Little, 2009 This is THE book you need if you re involved in multi state construction and design projects It outlines essential information about design and construction law and contracting in all 50 states plus DC and Puerto Rico Information follows a standard format offering quick comparisons of how different jurisdictions treat the same issue Topics include licensing and regulation mechanic s liens financing consumer protection ADR environmental matters and statutory and case law governing contracting practices *Journal of the House of Representatives of the United States* United States. Congress. House, 2008

Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House

Sustainable Buildings and Infrastructure Annie R. Pearce, Yong Han Ahn, Ltd HanmiGlobal Co, 2017-12-14 The second edition of Sustainable Buildings and Infrastructure continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector including both buildings and infrastructure systems As a textbook it is aimed at students taking courses in construction management and the built environment but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms Case studies best practices and highlights of cutting edge research are included throughout making the book both a core reference and a practical guide

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Green Building Checklist Introduction

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