

# Final Design Checklist

Criteria		Requirements	Confirm Planned Compliance	Required Documentation
<b>Building Envelope</b>				
A1	Wall Insulation	Above Ground: Min. ETR = R30 (5.28) Below Ground: Min. ETR = R20 (3.52)	<input type="checkbox"/>	Complete assembly drawings with effective R value calculations
A2	Roof Insulation	Flat Roof: ETR R40 (7.04) Peaked Roofs - Ceiling below Attic: ETR R66 (12)	<input type="checkbox"/>	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 = R11.1 (1.96) Heated Floors below grade and in contact with ground: Min. ETR = R21.1 (3.72)	<input type="checkbox"/>	Complete assembly drawings with effective R value calculations
A4	Airtightness	Buildings following ABC Part 9: 1.5 ACH @ 50Pa Buildings following NECB: 0.25L/s m <sup>2</sup> @ 5Pa	<input type="checkbox"/>	Envelope air barrier details
A5	Window Thermal Transmittance	Max U2 = 1.6	<input type="checkbox"/>	Window schedule on drawings or from supplier
A6	Window to Wall Ratio	Max WWR = 60%	<input type="checkbox"/>	Calculation of window to wall ratio
<b>Energy Systems</b>				
B1	Heat Recovery Ventilator Effectiveness	HRV's with min effectiveness of 80% for all units.	<input type="checkbox"/>	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.	<input type="checkbox"/>	HRV cutsheet or note on drawings for performance of HRV
B3	Sealed Ductwork	Seal ductwork thoroughly along all seams, joints, connections, penetrations, etc.	<input type="checkbox"/>	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.	<input type="checkbox"/>	None
B5	Heating Controls	Provide smart room thermostats that are programmable, self-adjusting, have occupancy detection, etc.	<input type="checkbox"/>	None
<b>Sustainable Building Features</b>				
C1	Water Efficient Fixtures and Fixings	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	<input type="checkbox"/>	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.	<input type="checkbox"/>	None
C3	Energy Efficient Appliances	Major appliances shall be "Energy Star" rated, including: • Fridge • Dishwasher • Stove • Washing Machine/Dryer	<input type="checkbox"/>	None
C4	Air Filtration	Install minimum MERV 8 air filtration on all central air handling systems.	<input type="checkbox"/>	Drawings indicating requirements
C5	Solar-ready Trusses	Provide photovoltaic certified trusses for peaked roofs.	<input type="checkbox"/>	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.	<input type="checkbox"/>	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.	<input type="checkbox"/>	None

# Green Building Checklist

**J Dewey**



## **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 *Building an Emerald City* Lucia Athens, 2012-06-22 In 2000 Seattle Washington became the first U S city to officially adopt the U S Green Building Council s LEED Leadership in Energy and Environmental Design Silver standards for its own major construction projects In the midst of a municipal building boom it set new targets for building and remodeling to LEED guidelines Its first LEED certified project the Seattle Justice Center was completed in 2002 The city is now home to one of the highest concentrations of LEED buildings in the world Building an Emerald City is the story of how Seattle transformed itself into a leader in sustainable green building written by one of the principal figures in that transformation It is both a personal account filled with the experiences and insights of an insider and a guide for anyone who wants to bring about similar changes in any city It includes best practice models from municipalities across the nation supplemented by the contributions of guest authors who offer stories and tips from their own experiences in other cities Intended as a roadmap for policy makers public officials and representatives large scale builders and land developers and green advocates of every stripe Building an Emerald City is that rare book one that is both inspirational and practical *Journal of the House of Representatives of the United States* United States. Congress. House, 2009 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 **Green Buildings Checklist** British Columbia. Ministry of Finance and Corporate Relations,2000 **Congressional Record** United States. Congress,2008 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 *"Code of Massachusetts regulations, 2013"* ,2013 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *"Code of Massachusetts regulations, 2016"* ,2016 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Land Use Institute, Planning, Regulation, Litigation, Eminent Domain, and Compensation** ,2010 *"Code of Massachusetts regulations, 2012"* ,2012 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *"Code of Massachusetts regulations, 2015"* ,2015 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *"Code of Massachusetts regulations, 2014"* ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2006"** ,2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2005"** ,2005 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2004"** ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2009"** ,2009 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2003"** ,2003 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2007"** ,2007 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2010"** ,2010 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **The Massachusetts register** ,2003

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## **Table of Contents Green Building Checklist**

1. Understanding the eBook Green Building Checklist
  - The Rise of Digital Reading Green Building Checklist
  - Advantages of eBooks Over Traditional Books
2. Identifying Green Building Checklist
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Green Building Checklist
  - User-Friendly Interface
4. Exploring eBook Recommendations from Green Building Checklist
  - Personalized Recommendations
  - Green Building Checklist User Reviews and Ratings
  - Green Building Checklist and Bestseller Lists
5. Accessing Green Building Checklist Free and Paid eBooks
  - Green Building Checklist Public Domain eBooks

- Green Building Checklist eBook Subscription Services
- Green Building Checklist Budget-Friendly Options
- 6. Navigating Green Building Checklist eBook Formats
  - ePub, PDF, MOBI, and More
  - Green Building Checklist Compatibility with Devices
  - Green Building Checklist Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Green Building Checklist
  - Highlighting and Note-Taking Green Building Checklist
  - Interactive Elements Green Building Checklist
- 8. Staying Engaged with Green Building Checklist
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Green Building Checklist
- 9. Balancing eBooks and Physical Books Green Building Checklist
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Green Building Checklist
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Green Building Checklist
  - Setting Reading Goals Green Building Checklist
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Green Building Checklist
  - Fact-Checking eBook Content of Green Building Checklist
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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