

# 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

**Victor M. Corman**



## **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 *Land Use Institute, Planning, Regulation, Litigation, Eminent Domain, and Compensation* ,2010 **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, 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, 2016"* ,2016 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, 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, 2012"](#) ,2012 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **The Engineering Guide to LEED-New Construction: Sustainable Construction for Engineers (GreenSource)** Liv Haselbach,2010-08-09 An Up to Date Guide to the Latest LEED New Construction Guidelines Fully revised for version 3 0 of the LEED New Construction rating system LEED 2009 this GreenSource book helps you acquire the skills needed to apply LEED NC to sustainable construction projects The Engineering Guide to LEED New Construction second edition offers comprehensive coverage of the environmental systems and impacts on which many of the LEED NC subcategories are based Detailed equations and exercises in the book can be used to perform the calculations outlined in LEED NC Valuable information on real world applications of LEED NC in military low impact development LID and other sectors is included in this practical resource THE ENGINEERING GUIDE TO LEED NEW CONSTRUCTION COVERS Introduction to the U S Green Building Council s LEED NC rating system Sustainable sites Water efficiency Energy and atmosphere Materials and resources Indoor environmental quality Innovation in design and regional priorities A systematic view of green and minimum program requirements Department of Defense sustainable construction and indoor air quality IAQ Low impact development **"Code of Massachusetts regulations, 2008"** ,2008 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**

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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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web qualitative test flame tests introduction for this test i had five containers labelled a e each containing a metal salt i had

to find out which metal is used in each of the five unknown salts by using a metal loop placing it in the unknown salts and testing it by putting the metal under a roaring bunsen flame safety points wear googols all the time when

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web the easiest colors to observe during the flame test were that of copper chloride and lithium chloride for potassium chloride there was a purple color close to the stick but the flame remained orange for the majority of the burn time the unknown slat burned orange but also had a slight blue color close to the stick

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web use crayons or colored pencils to color in the spectrum in the box on your report sheet to show the correlation between color and wavelength part ii flame tests you will conduct flame tests to observe the flame emission colors for the following

solutions  $\text{LiNO}_3$   $\text{CuNO}_3$   $\text{SrNO}_3$   $\text{BaNO}_3$   $\text{KNO}_3$  and  $\text{NaNO}_3$  since nitrates do not emit color you

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web article 2 principle of atomic absorption emission spectroscopy flame test lab ldc 5 1 atomic emission the flame test when a small amount of a solution of a metal ion is placed in the flame of a bunsen burner the flame turns a

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web task use a flame test to determine which ion salt produces the red color then using a spectroscope match the bright line spectra from red fireworks to a substance in your material list then make your final determination of what ion in the material list causes red fireworks procedure

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web energy and matter answered worksheet the experiment conducted aimed to give students the opportunity to determine different metal ions in liquid and solid compounds by observing the color of the flames they give off when

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web sep 22 2021 pre laboratory assignment flame tests of metal cations in this lab you will perform flame tests of several different metal cations the characteristic colors observed are due to emitted electromagnetic radiation from the excited metal cations in this lab how do the metal cations become excited

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web feb 10 2021 section 1 purpose and summary observe the color of light emitted when a sample of a salt of a metal cation is heated use the characteristic color of flames to identify ions in various laboratory samples observe the emission spectra of various elements in gas discharge tubes

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web 25 october 2022 objective experiment 1 to show how flame test can be used to identify some metals ion 2 to identify some unknown metal ions using flame test introduction the arrangement of electrons around the nucleus of the atom is

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web flame tests and atomic spectra part a flame tests of metal cations experimental data and observations solution dominant flame flame intensity flame duration wavelength nm color low medium high seconds bacl<sub>2</sub> yellow to orange 597 high 13 sec cacl<sub>2</sub> dombe 609 high 13 sec cucl<sub>2</sub> green blue imedium KCl liolelel 423 low issic lici 701

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