

# 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

**Clifford Lane**



## **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 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  
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2 provide teams with the resources they need to work together to make improvements with communication the organization  
must provide the necessary resources to the teams this includes comfortable work spaces where the

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processes easily customize and build business apps to collaborate on data automate workflows and turn insight into action  
with dashboards and reports tags collaboration communication productivity a lot of advice has been given to managers

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web the cells seen are squamous epithelial cells from the outer epithelial layer of the mouth the small blue dots are bacteria from our teeth and mouth human cheek cells experiment from microscopes for schools observing cells from a human cheek and bacteria under a compound microscope

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web human cheek epithelial cells the tissue that lines the inside of the mouth is known as the basal mucosa and is composed of squamous epithelial cells these structures commonly thought of as cheek cells divide approximately every 24 hours and are constantly shed from the body not available in your country

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web a squamous epithelial cell looks flat under a microscope a cuboidal epithelial cell looks close to a square a columnar epithelial cell looks like a column or a tall rectangle a few epithelial layers are constructed from cells that are said to have a transitional shape transitional epithelial cells are epithelial

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web cell structure edexcel animal cells light and electron microscopes allow us to see inside cells plant animal and bacterial cells have smaller components each with a specific function

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web cheek epithelial cells cells that cover a surface whether outside the body or inside the body are called epithelial cells epithelial cells from inside your mouth are easily collected and examined under the microscope

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web feb 17 2023 introduction epithelial cells make up primary tissues throughout the body epithelial cells form from ectoderm mesoderm and endoderm which explains why epithelial line body cavities and cover most body and organ surfaces

1

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web some of the main parts of a cell include 1 cell membrane outer boundary of the cell 2 cytoplasm the fluid within the cell 3 nucleus at the center of the cell and controls cell functions 4 organelles e g mitochondria organelles are

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web the human cheek cell 1 list the 3 parts of the cell theory 2 describe or define each of the following cell membrane cytoplasm nucleus organelle 3 sketch the cell at low and high power label the nucleus cytoplasm and cell membrane draw your cells to scale 4 why is methylene blue necessary 5

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web cheek cells are epithelial cells that line the interior surface of our mouths the base layer of cells in an epithelial structure are not actually cells but a sticky layer on which the cells anchor the other surface of the epithelial cell touches the outside world like skin or an open space like the mouth

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web epithelial cells are typically characterized by the polarized distribution of organelles and membrane bound proteins between their basal and apical surfaces particular structures found in some epithelial cells are an adaptation to specific functions

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web gently scrape the inside of your cheek with a toothpick and swirl it in the dye on the slide place a cover slip on the suspension and view at 1000x total magnification draw 1 3 cells large enough to show the detail that you see in your lab manual label its cell membrane cytoplasm and nucleus

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web solution squamous epithelium is composed of thin and flat cells with closely packed nuclei this type of epithelium is found in the lining of the mouth and nasal cavities blood vessels and lymph vessels suggest corrections 110 similar questions q draw a labelled diagram of human female reproductive system q

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web so yes cell membrane is all so present so cell membrane is present but a cell wall is absent if we talk about the self content so that would include the nucleus mitochondria so self content we can write that it is going to include the nucleus mitochondria and if we talk about the vacuole vacuole is absent in the cheek epithelial cells

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web to prepare a temporary mount of human cheek epithelial cells and to study its characteristics like plants the body of all animals including humans is composed of cells unlike plant cells animal cells do not have cell wall the outermost covering of an animal cell is a cell membrane the cytoplasm nucleus and other

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web estimate the size of an individual cell and the size of the nucleus size of cell 50 80 micrometers size of nucleus approximately 10 micrometers what shape are the cells the cells are irregular in shape can you see the cell membrane the cell membrane itself is too small to be seen with a compound microscope

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web pre engineered building concept involves the steel building systems which are predesigned and prefabricated as the name indicates this concept involves pre engineering of structural elements using a predetermined registry of building materials and manufacturing techniques that can be

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