

# 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

**JL Elias**



**Green Building Checklist:**

The book delves into Green Building Checklist. Green Building Checklist is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Green Building Checklist, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Green Building Checklist
  - Chapter 2: Essential Elements of Green Building Checklist
  - Chapter 3: Green Building Checklist in Everyday Life
  - Chapter 4: Green Building Checklist in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Green Building Checklist. This chapter will explore what Green Building Checklist is, why Green Building Checklist is vital, and how to effectively learn about Green Building Checklist.
3. In chapter 2, this book will delve into the foundational concepts of Green Building Checklist. The second chapter will elucidate the essential principles that must be understood to grasp Green Building Checklist in its entirety.
4. In chapter 3, this book will examine the practical applications of Green Building Checklist in daily life. The third chapter will showcase real-world examples of how Green Building Checklist can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Green Building Checklist in specific contexts. This chapter will explore how Green Building Checklist is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Green Building Checklist. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Green Building Checklist.

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the name biotechnology comes from the greek words bios which means life techno which means technology and logos which means language or proof biotechnology is the technical use of living organisms for a variety of purposes including food

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