

# 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

# Checklist Green Building

**Jicheng Xie**



**Checklist Green Building:**

Embark on a breathtaking journey through nature and adventure with is mesmerizing ebook, Natureis Adventure: **Checklist Green Building** . This immersive experience, available for download in a PDF format ( \*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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