

# Housing Checklist

## Energy Efficient Building Practices

USE OF THESE SYSTEMS OR PRACTICES IS NOT MANDATORY;  
THIS DATA WILL BE USED FOR INFORMATIONAL PURPOSES ONLY.

Project Address:  Builder Name:  Abstain  Yes

Please indicate in your design specifications if a Green Rating System will be used on your project, and which one.

ENERGY STAR     ENERGUIDE     LEED Canada for Homes     OTHER

For additions and alterations, or projects not using one of the above recognized rating systems, indicate on the following checklist which features have been considered in their design, and how difficult each feature will be to incorporate into the project.

<b>A. Hot Water System</b>		<b>Incorporated in Design?</b>
1.	Active solar hot water heating system, sized for 30% of the domestic hot water (DHW) load.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Power vented DHW tank system, sealed combustion 2 pipe tank system, or condensing DHW tank system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Instantaneous "tankless" hot water heater.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	High efficiency (AFUE 90 or better) boiler domestic hot water system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Geoexchange DHW heating system to supply a minimum of 25% of the peak DHW heating load.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Drainwater heat recovery units on the main drainage stack.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>B. Wood Fueled Appliances</b>		<b>Incorporated in Design?</b>
1.	Sealed combustion fireplace with electronic ignition if gas fueled.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	CSA certified high-efficiency wood stove or pellet stove with a minimum efficiency of 72%.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Fireplace fan kit to circulate warm air into room.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>C. Electricity</b>		<b>Incorporated in Design?</b>
1.	Build home "Solar Ready" following Canadian Solar Industries Association (CANSIA) guidelines.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Photovoltaic electrical generation system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Properly supported and wired ceiling fan and a wall mounted switch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Interior motion sensor light switch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Central, computerized control systems capable of unified automation control of lighting loads.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Interior and exterior light fixtures are fluorescent, compact fluorescent light bulbs or LEDs.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	Recessed lights use halogen bulbs.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.	Air tight, insulation contact-rated recessed lights are used in all insulated ceilings, or insulated ceilings have no recessed lights.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>D. Water Efficiency</b>		<b>Incorporated in Design?</b>
1.	For home renovations, CSA approved single flush toilet averaging 6 L per flush or less installed in bathrooms.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Dual flush in one or more bathrooms.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	4.84 L per flush toilet in one or more bathrooms.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Insulate hot water lines with flexible pipe insulation.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Hot water recirculation line with insulated hot water lines and pump system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Low flow faucets for all kitchen faucets and lavatories, all showers & tub/showers.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	Hands free lavatory faucets.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.	Provide front loading clothes washer, or Condensing Combination wash/dry unit.	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.	Install water saving dishwasher that uses less than 26.0 L/water per load.	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.	Install grey water system collecting waste from sinks, shower and/or kitchen to capture and treat for use in toilets or irrigation.	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>E. Building Materials</b>		<b>Incorporated in Design?</b>
1.	All windows and doors are ENERGY STAR labeled or equivalent for the climatic zone of home.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Insulated Concrete Form (ICF) system used for foundation and main house walls.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Increase exterior and interior wall stud spacing.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Use of insulated headers/lintels (either manufactured or site built insulated headers) with minimum insulation value of R10.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Manufactured insulated rim/band joist, or header wrap detail for continuous air barrier.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Structural insulated panel system used for roof and/or of walls.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	Use expanding foam around window and door openings and all exterior wall penetrations.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.	All sill plates sealed with foam sill gaskets or a continuous sandwiched bead of acoustical sealant.	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.	Site applied spray foam to insulate entire rim joist area, floors, and/or house walls.	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.	Replace exterior wood sheathing with insulating sheathing and structural metal bracing.	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.	Insulation under entire basement slab.	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.	Extruded polystyrene (XPS) insulation system on exterior of foundation.	<input type="checkbox"/> Yes <input type="checkbox"/> No
13.	Attached garage overhead door is insulated and/or attached garage is fully insulated.	<input type="checkbox"/> Yes <input type="checkbox"/> No
14.	Passive solar design shading devices. Permanent horizontal and/or vertical exterior shading devices for glazing or computer controlled devices.	<input type="checkbox"/> Yes <input type="checkbox"/> No
15.	Weather-stripped and insulated interior attic hatch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.	Electric Range, refrigerator, dishwasher, clothes washer and clothes dryer are ENERGY STAR labeled products.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F. Heating, Ventilation, and Air Conditioning (HVAC)</b>		<b>Incorporated in Design?</b>
1.	Zoning from a HVAC source utilizing two or more thermostatically controlled zones or zoning from separate systems programmed through separate thermostats.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	High efficiency, sealed combustion heating appliance with at least 92% AFUE.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Ground source heat pumps for heating and cooling. .	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Thermostat that indicates the need for the air filters to be changed or cleaned.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	All ductwork joints and penetrations sealed with low toxic mastic or aerosolized sealant system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Programmable ENERGY STAR thermostat with dual set back and continuous fan setting.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	HVAC appliance with variable speed fan.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.	Motorized damper on fresh air inlet (must be interlocked with furnace system).	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.	All ventilation fans (bath or in-line type) to meet or exceed ENERGY STAR requirements.	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.	Programmable time or humidistat controlled ventilation fan meeting the Energy Star requirements for efficiency and sound level.	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.	Active Heat Recovery Ventilator or Energy Recovery Ventilator (HRV or ERV) with balanced installation.	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.	Ventilation system is installed according to CSA Standard F326, as recommended by the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI).	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>G. Landscaping</b>		<b>Incorporated in Design?</b>
1.	Efficient irrigation technology that utilizes automatic soil moisture-based sensor technology.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Permeable paving materials for all driveways and walkways.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Supply a minimum of 8" of soil or composted yard waste, as finish grading throughout site.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Incorporate drought resistant landscaping in home.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Attach water barrel with insect screen to downspout. Water barrel should also have a drain spout and overflow spout.	<input type="checkbox"/> Yes <input type="checkbox"/> No

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