

BUILT GREEN® Checklist: Single Family New Construction

Effective January 1, 2015



The BUILT GREEN® program has four levels of achievement, shown below as Bronze, Silver, Gold, and Platinum. Points are awarded in several categories as summarized below, and are summed to give a cumulative total. Each separate category has minimum point totals that must be achieved. More detail is available in the Built Green Canada Program & Guide For Single Family New Construction.

Checklist Categories	BUILT GREEN® Level (For Detached, Semi-Detached & Row House Units)			
	Bronze	Silver	Gold	Platinum
I. Envelope and Energy Systems	Min. 25*/133			
II. Materials and Methods	Min. 20/107			
III. Indoor Air Quality	Min. 15/45	90	100	115
IV. Ventilation	Min. 5/19	Points	Points	Points
V. Waste Management	Min. 7/29			
VI. Water Conservation	Min. 10/60			
VII. Business Practices	Min. 8/52			

**Note: the minimum point requirement for the EE category increases to 30 points for Silver, 35 for Gold, and 40 for Platinum.*

CHECKLIST CRITERIA

Five fundamental pillars serve as a basis for each item to be considered in the checklist. Each line item must meet at least one of the criteria listed in the left-hand column, where two or more of the subsidiary points listed in the two right-hand columns must be addressed.

Primary Criteria (1 or more met by each checklist point)	Secondary Criteria (2 or more met by each checklist point)	
<ul style="list-style-type: none"> • Resource Use • Energy Efficiency • Recycled Content • Indoor Air Quality 	<ul style="list-style-type: none"> • Durability • Innovation • Alternative Construction 	<ul style="list-style-type: none"> • Measurable or Validated • Promotion of Greater Use • Environmental Impact

ENERGUIDE RATING

Older versions of Built Green Canada's programs required minimum performance in the EnerGuide Rating System administered by Natural Resources Canada (NRCAN). These minimum performance requirements have now been integrated into the BUILT GREEN® Checklist, and there is no longer a minimum EnerGuide score required for BUILT GREEN® Certification.

However, it is still very much required that any home seeking BUILT GREEN® Certification must first be modelled and tested in the EnerGuide Rating System (ERS). ERS will require the builder to work with a Certified Energy Advisor, licensed by Natural Resources Canada, who will create a computer-simulated model of the home, calculate the home's energy use, and perform a mandatory door-fan air leakage test (i.e. often referred to as a "blower door test"), after which he will be able to report the ERS score and provide a certification label for the home.

This standard applies to low-rise detached, semi-detached, and row houses and small multi-family buildings under four stories. Other energy modelling practices apply to other BUILT GREEN® eligible homes (e.g. renovated homes or towers).

CHECKLIST REQUIREMENTS

In order to properly verify the BUILT GREEN® program, for each item chosen from the checklist, a verification must be ready to be supplied, if the home is randomly chosen to be audited. The builder will be given a short but reasonable amount of time to compile verifications and supply them to the auditor.

Forms of verification include: Installing Contract Letter, Supplier Verification Letter, Invoice or Purchase Order, as well as an On-Site Visual Verification. The builder will need to ensure each verification has the required information included, or verifications missing required details will be rejected.

AUDIT VERIFICATION REQUIREMENTS

Built Green Canada will conduct a visual verification of a portion of the BUILT GREEN® Checklist to maintain quality control and program credibility on every BUILT GREEN® home registered.

If deficiencies are found, follow-up full verification of several projects will be implemented. This full verification will assess the entire checklist at the expense of the builder.

Supporting documentation provided by the builder shall meet at least one of the following criteria: on-site verification or written documentation, including when and from whom the product was purchased, as well as when, where, and by whom it was installed, including contact information for each company. Refer to the Built Green Canada Program & Guide For Single Family New Construction for more information.

BUILT GREEN® Checklist

Home Enrolment Worksheet

Effective January 1, 2015



Please complete shaded areas on this Home Enrolment Worksheet.

Also complete the Regular Checklist Worksheet, or select a Pre-Approved Checklist, below, in the field marked "Checklist Used".

For more information, please see the Compliance Methods worksheet.

Builder Information

Application Date:		HBA Member ID #:		Company Name:			
Full Mailing Address:				Main Contact:			
Phone:		Fax:		Email:			
On-Site Contact #1:		Phone:		On-Site Contact #2:		Phone:	

Home Information

Community:		Construction Start Date:		Expected Completion Date:	
Address:		Province:		Permit #:	
City:		Postal Code			

BUILT GREEN® Level

NONE

Warning: Checklist does not meet BUILT GREEN® certification criteria

Total Checklist Points

0

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To select checklist points, click and select point values from the drop-down list for each point.

For homes using the Energy Modelling path for Section I, please enter your EnerGuide Rating in the field indicated below and leave the remainder of Section I blank.

For homes not using this path, please complete the rest of Section I and leave the EnerGuide Rating field blank.

Builder	0
Address	0
Summary	1 - Envelope and Energy Systems: 0 points (below section minimum: 25)
	2 - Materials and Methods: 0 points (below section minimum: 20)
	3 - Indoor Air Quality: 0 points (below section minimum: 15)
	4 - Ventilation: 0 points (below section minimum: 5)
	5 - Waste Management: 0 points (below section minimum: 7)
	6 - Water Conservation: 0 points (below section minimum: 10)
	7 - Business Practice: 0 points (below section minimum: 8)
TOTAL POINTS:	0 points (NONE) (insufficient checklist points)

Note: Item numbers highlighted in green have been updated from the last checklist or are new.

I. ENERGY AND ENVELOPE

This section awards points for construction methods and types of products that contribute to lower energy consumption, as well as alternative heating and electrical systems.

Minimum 25 Points Required for Bronze, 30 points for Silver, 35 points for Gold, and 40 points for Platinum.

I.0: OPTIONAL Energy Modelling (Performance Path)

- 1.0.1** EnerGuide modelling: as an alternate to using the remaining action items and points noted hereafter in Section I (ENVELOPE AND ENERGY SYSTEMS), you may model the performance of your home with the EnerGuide Rating System. Points scored are based on your EnerGuide score: 5 points for each EnerGuide number above 75. (e.g. EnerGuide 80 earns 25 points and meets the minimum requirement for this category, EnerGuide 85 would earn 50 points, etc.), up to a maximum of 125 points for an EnerGuide score of 100.
NOTE: this item is exclusive to the rest of this category; points may be earned here only if no points are earned in any other items in the rest of the ENVELOPE AND ENERGY SYSTEMS sections below.

	Relative cost	Points per item
← Input EnerGuide Rating Here		
0	\$\$ - \$\$\$\$	0 to 125

I.I: Building Envelope

1.1.1	Install additional insulation on exterior of above-grade walls, above insulation amounts already required by code: add R5 for 1 point or R10 for 3 points.	\$ - \$\$\$	1 or 3
1.1.2	Replace exterior wood sheathing with insulating sheathing and structurally required metal bracing.	NC - \$\$	2
1.1.3	Insulated Concrete Form (ICF) system used for foundation walls.	\$\$\$\$	2
1.1.4	Insulated Concrete Form (ICF) system used for 75% of above-grade house walls.	\$\$\$\$	3
1.1.5	Structural insulated panel system used for at least 75% of roof/ceiling (4 points), 75% of walls (6 points), exposed floors (2 points) and/or Foundation (2 points).	\$\$ - \$\$\$\$	2 to 14
1.1.6	Install site-applied spray foam to insulate entire rim joist area (1 point), exposed floors (2 points), and/or house walls (4 points), and/or entire roof (3 points).	\$\$\$\$	1 to 10
1.1.7	Install additional exterior insulations system on exterior of foundation system, above code-required interior insulation level: minimum R Value of 7.5 (1 point), R10 (2 points), or R15 (3 points).	\$\$\$	1, 2 or 3
1.1.8	Install R5 (1 point), R8 (2 points), or R12 (3 points) above building code required under entire basement slab.	\$\$ - \$\$\$	1, 2 or 3
1.1.9	Use of insulated headers/lintels (either manufactured or site-built) with minimum insulation value of R10.	\$ - \$\$	1

1.1.10	Install manufactured insulated rim/band joist, or use on-site built header wrap detail for continuous air barrier.	\$ - \$\$	1
1.1.11	All electrical back-boxes in exterior walls and ceilings are air tight (molded plastic).	NC - \$	1
1.1.12	All sill plates sealed with foam, sill gaskets, or a continuous sandwiched bead of acoustical sealant.	NC - \$	1
1.1.13	Install weather-stripped and insulated (R15 minimum) manufactured interior attic hatch, or no interior attic access.	NC - \$	1
1.1.14	Attached garage is fully insulated, has no provision for future heating, and overhead door is insulated to minimum R8 (for 1 point) or R12 (for 2 points)	\$ - \$\$\$	1 or 2
1.1.15	Builder uses passive solar design shading devices for home: permanent horizontal and/or vertical exterior shading devices for glazing (2 points), computer-controlled devices (additional 1 point).	\$\$ - \$\$\$\$	2 or 3
1.1.16	All windows in home are ENERGY STAR labeled (or equivalent) for the climatic zone of the home (1 points), or for a higher zone (e.g. zone C windows on a home in zone B) (for 2 points).	\$ - \$\$\$	1 or 2
1.1.17	Install doors that are minimum R6, and any doors with glass (including french or sliding doors) that are minimum ENERGY STAR Zone D (or minimum R4) rated (1 point).	\$\$	1

I.2: Mechanical Systems

1.2.1	Install a zoned heating system. Either a) from a single HVAC source utilizing two or more programmable, thermostatically controlled zones; or b) zoning separate systems through separate programmable thermostats. (2 zones = 2 points; 3 zones = 3 points; 4 zones = 4 points).	\$ - \$\$\$\$	2, 3 or 4
1.2.2	Install high efficiency, sealed combustion heating appliance, with a minimum 94% AFUE (2 points), or 95% AFUE (3 points), or 96% AFUE and above (4 points).	\$ - \$\$\$	2, 3 or 4
1.2.3	Install a ground/water (minimum COP of 4 or SEER 15) or air source (min COP of 2 or SEER 15) heat pump for heating and cooling. A backup/secondary heating source may be awarded points under other items in this section.	\$\$ - \$\$\$\$\$	5
1.2.4	Install a programmable thermostat with dual set back and continuous fan setting.	\$ - \$\$	1
1.2.5	Install HVAC appliance with variable speed fan (i.e. brushless DC electrically commutated motors: ECM).	NC - \$\$	1
1.2.6	Water Heating Systems:		
1.2.6.1	Install sealed combustion direct vent to pipe tank system (2 points), or condensing DHW tank system (3 points).	\$ - \$\$\$	2 or 3
	OR		
1.2.6.2	Install ENERGY STAR rated "tankless" hot water heater (EF >0.80 for 2 points; EF >0.90 for 3 points).	\$\$ - \$\$\$	2 or 3
	OR		
1.2.6.3	Install high efficiency boiler domestic hot water system (AFUE 92 for 2 points; 95 or better for 3 points).	\$\$ - \$\$\$	2 or 3
	OR		
1.2.6.4	Install heat pump based DHW heating system (ground, water, or air sourced, EF of 1.5 for 2 points; EF of 2 for 3 points) to supply a minimum of 35% of the peak DHW heating load and 70% of the total DHW energy load.	\$\$ - \$\$\$\$\$	2 or 3
1.2.7	Insulate hot water lines with flexible pipe insulation for first six feet from the hot water tank, including the heat trap (1 point) or all hot water lines (2 points).	\$ - \$\$\$	1 or 2
1.2.8	Install drain water heat recovery (DWHR) units on the main drain stack to recover heat from shower drain water. DWHR units must be CSA certified to B55.1 and B55.2: 1 point for units less than 42% efficient and 2 points for units greater than, or equal to, 42% efficient that are fully insulated (2 points).	\$\$ - \$\$\$	1 or 2
1.2.9	Install an EPA or CSA certified high-efficiency wood stove or pellet stove with a minimum efficiency of 72% (1 point) or 85% (2 points).	\$ - \$\$	1 or 2
1.2.10	Install fireplace fan kit to circulate warm air into room (1 point per fan, maximum 3 points).	\$\$ - \$\$	1, 2 or 3
1.2.11	Rough-in a properly supported and wired ceiling fan and a wall mounted switch for future installation (1 point). Install a reversible ENERGY STAR qualified fan (1 additional point).	\$	1 or 2

I.3: Appliances

1.3.1	Electric oven is convection based.	\$ - \$\$	1
1.3.2	Electric range is induction based.	\$ - \$\$	1
1.3.3	Refrigerator is an ENERGY STAR labeled product.	\$ - \$\$	2
1.3.4	Dishwasher is an ENERGY STAR labeled product.	\$ - \$\$	1
1.3.5	Clothes washer or combo washer dryer is an ENERGY STAR labeled product.	\$\$\$	1
1.3.6	Clothes dryer has an energy performance "auto sense" dry setting, which utilizes a humidity sensor for energy efficiency.	\$ - \$\$	1

I.4: On-Site Energy Generation

1.4.1	Home is built "solar ready", following the guidelines from either Natural Resources Canada (NRCAN) or the Canadian Solar Industries Association (CanSIA). OR	☐	\$\$	3
1.4.2	Install active solar hot water heating system, sized for 30% of DHW load (5 points), 50% (6 points), or 80% (8 points). AND/OR	☐	\$\$ - \$\$\$\$	5, 6, or 8
1.4.3	Install photovoltaic electrical generation system, sized for 30% of electric load (5 points), 50% (6 points), or 80% (8 points).	☐	\$\$\$ - \$\$\$\$\$	5, 6, or 8
1.4.4	Home is built ready for plug-in electric vehicles: 1 point for 240V plug in the vehicle parking area, 2 points for a certified charging station.	☐	\$ - \$\$	1 or 2

I.5: Lighting and Automation

1.5.1	ENERGY STAR lighting or LED used in kitchen, living room, main hallways, and main bath (1 point), or interior and exterior lighting uses ENERGY STAR bulbs or LED (2 points)	☐	\$ - \$\$	1 to 2
1.5.2	Insulated ceilings have no recessed lights, or advanced air-sealing methods are employed to ensure that recessed lights are fully air-tight.	☐	\$	1
1.5.3	Install interior motion sensor light switches. 1 point per switch, to a maximum of 3 points.	☐	\$ - \$\$	1, 2 or 3
1.5.4	Install central lighting automation system with inherent conservation features (e.g. "away" mode).	☐	\$\$ - \$\$\$\$	2
1.5.5	Install a central "all-off" switch that disables all non-essential electrical loads in the home.	☐	\$\$	2
1.5.6	Install home automation that provides a "vacation" or "away" mode, which (for 1 point each): a) turns off an "all-off" circuit; b) turns off the domestic hot water supply; and c) sets back the thermostat. One additional point may be earned if this automation can be controlled from a smart phone or via the internet, up to 4 points total.	☐	\$\$ - \$\$\$\$	4

TOTAL SECTION POINTS

0

II. MATERIALS AND METHODS

This section rewards efficient use of framing materials, alternatives to using large dimensional lumber, products, and finishes that are more durable, made with recycled content or wood products that come from sustainably managed forests. Many Building Material items also improve thermal performance and offer energy benefit.

Minimum 20 Points Required.

Relative cost

Points per item

2.1: Material Efficient Framing

2.1.1	Exterior and interior wall stud spacing at 19.2 inches on-center (1 point) or 24 inches on-center (2 points).	☐	NC	1 or 2
2.1.2	Elimination of headers at non-bearing interior and exterior walls.	☐	NC	1
2.1.3	Use of header hangers instead of jack studs.	☐	\$	1
2.1.4	Elimination of cripples on hung windows.	☐	NC	1
2.1.5	Elimination of double plates, using single plates with connectors by lining up roof framing with wall and floor framing.	☐	NC	1
2.1.6	Use of two stud corner framing with drywall clips or scrap lumber for drywall backing instead of studs.	☐	\$	1
2.1.7	Deck or veranda surfaces (1 point) and/or structure (1 point) made from a third-party certified sustainably harvested wood source (CSA, FSC, or SFI).	☐	\$\$\$	1 or 2
2.1.8	Deck or veranda surfaces (1 point) and/or structure (1 point) made from a third-party certified concrete (i.e. concrete from a source having a third-party certified reclamation plan), or from concrete containing a minimum of 25% supplementary cementitious materials.	☐	NC - \$\$\$\$	1 or 2
2.1.9	Dimensional lumber from a third-party certified, sustainably harvested source used for floor framing (CSA, FSC, or SFI).	☐	\$ - \$\$	1
2.1.10	Dimensional lumber from a third-party certified, sustainably harvested source used for wall framing (CSA, FSC, or SFI).	☐	\$\$ - \$\$\$	2
2.1.11	Dimensional lumber from a third-party certified, sustainably harvested source used for roof framing (CSA, FSC, or SFI).	☐	NC - \$\$\$\$	1
2.1.12	Use manufactured wood products for floor systems instead of dimensional lumber (1 point), from third-party certified, sustainably harvested sources (CSA, FSC, or SFI for 2 points).	☐	NC - \$\$\$	1 or 2
2.1.13	Reduce dimensional lumber use by using engineered product for all load-bearing beams and columns (1 point), from third-party certified, sustainable sources (CSA, FSC, or SFI for 2 points).	☐	\$\$ - \$\$\$\$	1 or 2

2.1.14	Reduce dimensional lumber use by using engineered products for all exterior window and door headers.	\$ - \$\$\$	1
2.1.15	Finger-jointed plate material and/or engineered plate material used for all framing plates.	\$ - \$\$\$	1
2.1.16	Reduce dimensional lumber use by using engineered stud material for 10% of structural stud wall framing.	\$ - \$\$\$	1

2.2: Environmentally Preferable Materials

2.2.1	Finger-jointed studs for 90% of non-structural (1 point) and/or 90% of structural (1 point) wall framing.	\$ - \$\$\$	1 or 2
2.2.2	Recycled and/or recovered content gypsum wallboard, minimum of 15% post-consumer recycled content.	\$\$	1
2.2.3	Recycled content exterior wall sheathing (minimum 50% pre- or post-consumer).	\$\$\$	2
2.2.4	Concrete used in home has a minimum supplementary cementing material of 25% (1 point) or 40% (2 points) within the scope of proper engineering practices.	\$ - \$\$\$	1 or 2
2.2.5	All insulation used in home is certified by a third-party to contain a minimum recycled content: 25% (1 point), 50% (2 points), or 90% (3 points).	\$\$ - \$\$\$	1, 2 or 3
2.2.6	Overhead garage door is made of 75%, or greater, recycled material.	\$\$ - \$\$\$	1
2.2.7	Carpet and underpadding:		
2.2.7.1	Install carpet that has a minimum of 50% recycled content.	NC - \$	1
2.2.7.2	Natural or 100% recycled-content carpet pad (e.g. made from textile, carpet cushion, or tire waste. Rebond qualifies).	NC - \$\$	1
2.2.8	Install ecologically preferred bamboo, cork, or hardwood flooring for a minimum of 300 ft ² (1 point), more than 50% of all indoor floors (2 points) or more than 90% of all indoor floors (3 points). Products must be third-party certified from sustainably managed forests or certified sustainable sources (e.g. Rainforest Alliance, FSC, CSA, or SFI).	\$ - \$\$\$	3
2.2.9	All ceramic tile installed in the home has a minimum of 25% recycled content.	\$\$\$	2
2.2.10	Paints or finishes are manufactured with a minimum of 20% recycled content.	\$ - \$\$	1
2.2.11	Solid countertops are made from local natural stone or from minimum 30% recycled content for all kitchen counters (2 points), or all other counter tops (1 point), or both (3 points total).	\$\$ - \$\$\$	1, 2 or 3
2.2.12	Shelving is made from 100% agricultural waste or 100% recycled wood particle board.	\$ - \$\$\$	2
2.2.13	Doors:		
2.2.13.1	Exterior doors contain minimum 15% recycled and/or recovered content.	\$	1
2.2.13.2	Interior doors contain minimum 15% recycled and/or recovered content.	\$	1
2.2.13.3	Interior doors are made from third-party certified, sustainably harvested wood (CSA, FCS, or SFI).	NC - \$\$	2
2.2.14	Windows:		
2.2.14.1	Exterior window frames contain a minimum of 10% recycled content.	\$\$	1
2.2.14.2	Exterior window frames made from third-party certified, sustainably harvested wood (CSA, FCS, or SFI).	\$\$\$	2
2.2.15	Minimum 25% recycled or reclaimed exterior cladding material for 1/3 of exterior (1 point), or more than 2/3 of exterior (2 points), or more than 90% of the exterior (for 3 points).	\$ - \$\$\$	1, 2 or 3
2.2.16	Fascia and soffit made from a minimum of 50% recycled and/or recovered content (pre- or post-consumer) (1 point for each).	\$	1 or 2
2.2.17	Exterior trim materials have recycled and/or recovered-content (minimum 50%).	\$ - \$\$\$	3
2.2.18	MDF and/or finger-jointed casing and baseboard used throughout home (1 point), and in all jambs (1 point)	\$\$	1 to 2
2.2.19	Solid hardwood trim from third-party certified, sustainably harvested sources (CSA, FSC, or SFI) approved for millwork and/or cabinets (2 points per application—maximum of 4 points).	\$ - \$\$\$	2 or 4
2.2.20	Domestic wood from reused/recovered or re-milled sources, 500 ft ² minimum for flooring or all cabinets or all millwork.	\$\$\$ - \$\$\$\$	4
2.2.21	Minimum 25% recycled-content roofing system, including underlay and finish for 1 point, 50% recycled content for 2 points.	NC - \$\$	1 or 2
2.2.22	Use of salvaged materials derived from local sources (1 point for each different product used, to maximum of 3 points).	\$ - \$\$\$\$	1, 2 or 3

2.3: Durable Construction

2.3.1	Minimum 30-year manufacturer warranty roofing material (2 points plus 1 point for each additional 5 years). "Lifetime" warranties have terms/conditions that ultimately have a limit in real years, and will not be considered unless clarified.	NC - \$\$\$\$\$	2 to 6
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2.3.2	Non-solvent based damp proofing (seasonal application).	\$ - \$\$	1
2.3.3	Use rain screen system separating cladding from the wall sheathing with a drainage plane (2 point), made from 60% or more recycled content (additional 1 point).	\$ - \$\$\$	1, 2 or 3
2.3.4	All exterior doors and windows manufactured from fiberglass (1 point for windows and/or 1 point for doors).	NC - \$\$	1 or 2
2.3.5	Natural cementitious stone/stucco/brick or fiber cement siding, or combination thereof for 25% of exterior cladding (for 1 point), 50% (for 2 points), 75% (for 3 points) or more than 90% (for 4 points).	\$\$\$	1, 2, 3 or 4
2.3.6	Fascia and/or soffit made from fiber cement (1 point each).	\$\$\$ - \$\$\$\$	1 or 2
2.3.7	Exterior trim materials made from alternatives to solid lumber.	\$ - \$\$\$\$	1
2.3.8	All exterior trim is clad with pre-finished metal (1 point over wood backings, 2 points without wood backings).	\$\$\$	1 or 2
2.3.9	Deck or veranda surfaces made from environmentally preferable low-maintenance materials (e.g. stone, concrete, tile, composites, etc.) that do not need maintenance of any kind, including painting, for a minimum of 5 years.	\$ - \$\$\$	2
2.3.10	Lifetime finish on all faucets.	NC - \$	1
2.3.11	Lifetime finish on all door hardware.	NC - \$	1
2.3.12	Install only Type 1 or 2 grade door hardware with lifetime mechanical warranty.	\$ - \$\$\$	2
2.3.13	Install durable flooring (e.g. laminate, finished concrete, tile, hardwood, etc.) in all high-traffic areas (halls, kitchen, living space) (1 point), more than 30% of all indoor flooring (2 points), more than 60% of all indoor flooring (3 points), or more than 90% of all indoor flooring (4 points).	\$\$ - \$\$\$\$	1, 2, 3 or 4

TOTAL SECTION POINTS 0

III. INDOOR AIR QUALITY

This section focuses on the quality of the air within the finished home. Products listed here include materials that are low in VOCs, products made from all natural materials, as well as various air cleaning and ventilation systems.

Minimum 15 Points Required

		Relative cost	Points per item
3.1	Air filters:		
3.1.1	Install pleated media filter on HVAC system with minimum MERV rating of 7 (for 1 point) or 12 (for 2 points).	NC - \$\$\$	1 or 2
3.1.2	Install electronic or electrostatic air cleaner on HVAC system.	\$ - \$\$	1
3.1.3	Install HEPA filtration system in conjunction with an HVAC system.	\$\$\$\$	4
3.2	Install a thermostat that indicates the need for the air filter to be changed or cleaned.	\$	1
3.3	No combustion-based fireplaces are provided, or all gas fireplaces are sealed and have electronic ignition.	\$ - \$\$	2
3.4	Provide a minimum of one Carbon Monoxide (CO) detector per floor.	\$	1
3.5	Provide soil gas/radon protection: passive sub-slab ventilation (for 1 point), or actively depressurizing the sub-slab (i.e. add a fan, for 2 points).	\$	1 or 2
3.6	Power vacuum all HVAC ducting prior to occupancy by homeowner, or keep all ducts sealed (and clean) during construction.	NC - \$	1
3.7	Prior to occupancy, but after all interior construction is substantially complete and all finishes have been installed, perform a full flush of the air within the house by running the air handler (on maximum speed, if a variable speed device) for a minimum of 48 hours (combined over not more than 4 sessions), and provide new filters in the air handler after the flush is complete.	\$	1
3.8	Central vacuum system vented to exterior as recommended by the Carpet and Rug Institute.	\$ - \$\$	1
3.9	All insulation in the home is third-party certified or certified with zero formaldehyde.	\$	2
3.10	Low formaldehyde sub floor sheathing (less than 0.18 ppm).	\$ - \$\$\$	2
3.11	Low formaldehyde underlayment is used in home (less than 0.18 ppm).	\$	1
3.12	Low formaldehyde particle board/MDF (less than 0.18 ppm) = 1 point, or zero formaldehyde particle board/MDF (2 points) used for cabinets.	\$ - \$\$	1 or 2
3.13	Low formaldehyde particle board/MDF (less than 0.18 ppm) = 1 point, or zero formaldehyde particle board/MDF (2 points) for shelving.	\$ - \$\$	1 or 2
3.14	All interior wire shelving is factory coated with low VOC, or no off-gassing coatings.	\$ - \$\$	1
3.15	Water-based urethane finishes are used on all site-finished wood floors.	\$ - \$\$	1
3.16	All hardwood flooring is factory finished.	\$	1

3.17	Water-based lacquer or paints are used on all site-built and installed millwork, including doors, casing, and baseboards (less than 200 grams/litre of VOCs).	\$\$	2
3.18	Interior paints used have low VOC content (less than 200 grams/litre of VOCs).	NC - \$	1
3.19	Interior paints used have no VOCs in base paint prior to tint (for 1 point) or in tint (for 2 additional points). Alternatively, for a full 3 points, use natural finishes, such as lime plasters (NOTE: If taking points in 3-19 also take point in 3-18).	\$\$\$	3
3.20	All ceramic tiles are installed with low VOC adhesives and plasticizer-free grout (low VOC standard is less than 150 grams/litre).	\$\$	1
3.21	All vinyl flooring is replaced with natural linoleum installed with low VOC adhesives, or other hard-surface flooring.	\$\$ - \$\$\$\$	2
3.22	Carpet and Rug Institute (CRI) IAQ label on all carpet used in home.	NC - \$\$	2
3.23	Carpet and Rug Institute (CRI) IAQ label on all underlay used in home.	NC - \$\$	1
3.24	Natural material based carpet in all living areas.	\$\$\$	2
3.25	House is carpet free: all flooring surfaces are hard (including stairs).	\$ - \$\$\$\$	2
3.26	Provide a building component (e.g. a finishing product or interior surface product such as drywall) with the capacity to permanently absorb VOC emissions from other sources without creating any residual, or other, offgassing.	NC - \$\$	1

TOTAL SECTION POINTS 0

IV. VENTILATION

This section covers the mechanical ventilation systems in the home, including filtrations and heat recovery.

Minimum 5 Points Required

Platinum Level Note: Platinum level homes must use item 4.7 as well as 4 additional points from this section.

		Relative cost	Points per item
4.1	All ductwork is thoroughly sealed along all seams, joints, connections, penetrations, etc., in accordance with local prevailing code and industry best practice (2 points) and test/verify duct leakage to be less than 8 cfm (at 25 Pa) per 100 ft ² of conditioned floor area (2 additional points).	NC - \$\$	2 or 4
4.2	Install motorized damper on all bathroom/exhaust fans.	\$\$	2
4.3	Ventilation Fans:		
4.3.1	All ventilation fans (bath or in-line type) meet or exceed the ENERGY STAR requirements.	\$	1
4.3.2	Kitchen Range Hood is ENERGY STAR certified and has a CFM rating of less than 300.	\$	1
4.4	Install a programmable timer or humidistat-controlled ventilation fan.	\$	1
4.5	Install an active Heat Recovery Ventilator or Energy Recovery Ventilator (HRV or ERV) and verify balanced installation for 1 point; 2 points for more than 65% (Sensible Recovery Efficiency); 3 points for more than 80%.	\$\$ - \$\$\$	1, 2 or 3
4.6	Install permanent (de)humidification control (ERVs are considered acceptable).	\$ - \$\$	1
4.7	Ventilation system is installed according to CSA Standard F326.	\$ - \$\$\$	4
4.8	All local bath exhaust fans used throughout home have a noise level of 1 sone or less.	NC - \$\$	2

TOTAL SECTION POINTS 0

V. WASTE MANAGEMENT

This section deals with the handling of waste materials on the construction site and encourages recycling.

Minimum 7 Points Required

		Relative cost	Points per item
5.1	Comprehensive recycling program during construction for building site, including education, site signage, and bins.	\$	2
5.2	Implement a recycling program: collection of waste materials from site by a waste management company that is a current member of a provincial recycling council or equivalent association and verifies that a minimum of 25% of the materials collected from the construction site have been recycled.	\$ - \$\$	3
5.3	Suppliers and trades recycle their own waste, including leftover material and packaging (1 point per trade—maximum 4	\$	1, 2, 3 or 4
5.4	Minimum 35% (1 point), 50% (2 points), 75% (3 points), or 90% (4 points) by weight or volume of waste materials collected from construction site is diverted from waste stream.	\$ - \$\$\$	1, 2, 3 or 4

5.5	OR Waste reduction for remote projects: for projects occurring in regions that are a minimum 100 km away from the nearest population center with minimum 30,000 residents, the project may earn 1 point if the total amount of waste produced on the construction site is less than 4 lbs/ft ² ; 2 points are available for less than 3 lbs/ft ² ; 3 points for less than 2 lbs/ft ² ; and 4 points for less than 1 lbs/ft ² .		\$ - \$\$\$	1, 2, 3 or 4
5.6	Protect trees and natural features on site during construction.		NC	1
5.7	Metal or engineered durable form systems used for concrete foundation walls.		NC - \$\$	1
5.8	Install permanent recycling center for the homeowner with two or more 26L bins (for 1 point), or four or more 26L bins (for 2 points), and/or a minimum 26L compost collection centre (for 1 point), located in or conveniently close to the kitchen. Equivalent bin configurations will be accepted where aligned with local recycling program requirements.		\$ - \$\$\$	1, 2 or 3
5.9	Provide convenient on-site composter to homeowner.		\$	1
5.10	Existing dwellings onsite are recycled (more than 50% diverted from landfill, for 3 points) or relocated (6 points) instead of demolished.		\$\$\$\$ - \$\$\$\$\$	3 or 6
TOTAL SECTION POINTS				0

VI. WATER MANAGEMENT

This section encourages a reduction in the amount of water used in the home.

Minimum 10 Points Required

			Relative cost	Points per item
6.1	Install ultra-efficient toilets with average flow rates less than, or equal to, 3L/flush for 2 points each (up to 6 points).		\$\$ - \$\$\$	2, 4 or 6
6.2	Install efficient toilets with average flow rates less than, or equal to, 4.8L/flush (1.28 GPF) for 1 point each (up to 3 points).		\$\$ - \$\$\$	1, 2 or 3
6.3	Install manufactured non-electric composting toilet (3 points each; maximum of 6 points).		\$\$\$\$	3 or 6
6.4	Install hot water recirculation system with all hot water lines insulated (2 points) with local activation/call switches installed at all points of use (additional 2 points), or point-of-use instant DHW system (1 point each; maximum 4 points).		\$\$\$ - \$\$\$\$\$	1, 2, 3 or 4
6.5	Install low flow faucets for all lavatories (less than 5.7 lpm) including kitchen (less than 6.8 lpm) for 2 points, and all showers and tub/showers (less than 7.5 lpm) for 1 additional point.		\$\$	2 or 3
6.6	Provide front-loading clothes washer (3 points); or condensing combination wash/dry unit (4 points); or top-loading clothes washer having a rated water factor of less than 25 litres per cycle per cubic foot (3 points).		\$ - \$\$\$	3 or 4
6.7	Install water-saving dishwasher that uses less than 20.0 L/water per load.		\$ - \$\$	1
6.8	Install permeable paving materials for all driveways and walkways.		\$\$\$ - \$\$\$\$\$	3
6.9	Builder supplies a minimum of 8 inches of topsoil or composted yard waste, as finish grading throughout site.		\$\$\$ - \$\$\$\$\$	2
6.10	Provide a list of drought-tolerant plants and a copy of the local municipality water usage guide to homebuyers with closing package.		NC - \$\$	1
6.11	Builder incorporates permeable landscaping that is water efficient (for 1 point), xeriscaped (50% of landscaping 2 points, 100% 4 points), or is 100% plant-free landscaping (4 points).		\$ - \$\$\$	1, 2 or 4
6.12	OR Install efficient irrigation technology including (for 1 point each, to maximum 3 points): (i) has head-to-head coverage; (ii) uses high efficiency spray heads with distribution uniformity of 0.7 or greater; (iii) uses a square spray patterns to increase efficiency and reduce overspray onto non-permeable surfaces; (iv) uses drip irrigation for minimum 50% of planting bed area, including all larger shrub bed areas; (v) includes a flow sensor, central shut-off valve, and sub meter; (vi) has a pressure regulating device; (vii) includes a moisture sensor/rain delay controller.		\$\$ - \$\$\$	1, 2 or 3
6.13	Builder attaches water barrel with insect screen to downspout. Water barrel should also have a drain spout and overflow		NC - \$\$	1
6.14	Provide a rainwater collection cistern (minimum 750L) to offset either indoor (e.g. toilet flushing) or outdoor (e.g. irrigation) domestic water usage (3 points for above grade; 5 points for below grade)		\$\$ - \$\$\$\$\$	3 or 5
6.15	Install grey water system collecting waste from sinks, shower, and/or kitchen to capture and treat for use in toilets or irrigation (6 points), rough-in for future grey water system (3 points).		\$\$\$ - \$\$\$\$\$	3 or 6
6.16	Install on-site black water treatment system or engineered wetland for reprocessing local sewage (8 points)		\$\$\$\$	8
TOTAL SECTION POINTS				0

VII. BUSINESS PRACTICE

Minimum 8 Points Required

		Relative cost	Points per item
7.1	Products used for home are manufactured within 800 km of build site (1 point for each 2 products—maximum of 5 points).	\$	1 to 5
7.2	Builder provides BUILT GREEN® homeowner manual, completed BUILT GREEN® checklist, and educational walkthrough upon closing.	\$ - \$\$	3
7.3	Builder's office and show homes purchase a minimum of 50% (1 point) or 100% (2 points) solar, wind, or other renewable energy.	\$\$	1 or 2
7.4	50% (2 points) or 100% (4 points) of electricity used during construction of home is generated by wind power or equivalent green power certificate.	\$\$\$	2 or 4
7.5	50% (2 points) or 100% (4 points) of electricity used by homeowner during first year of occupancy is generated by wind power or an equivalent renewable energy supply (prepaid by builder).	\$ - \$\$\$	2 or 4
7.6	Builder's show homes incorporate permeable landscaping that is water efficient or xeriscaped (50% of lawn for 2 points; 100% for 4 points).	\$\$ - \$\$\$\$	2 or 4
7.7	Manufacturers and/or suppliers purchase 50% or more solar, wind, or renewable electricity (1 point per supplier to a maximum	NC	1 or 2
7.8	Builder has written an environmental policy defining their commitment (must include an office recycling program, a staff education program, appropriate signage in the builder's offices, and energy efficient lighting).	NC	1
7.9	Builder's environmental policy includes and prioritizes milestones for future net zero housing developments.	\$\$\$\$	1
7.10	Manufacturer and/or supplier has a written environmental policy with defined environmental commitments (must include an office recycling program and energy efficient lighting). (1 point per supplier/manufacturer—maximum of 2 points).	\$\$\$\$	1 or 2
7.11	Builders' company vehicles are electric, hybrid, or bio-diesel vehicles (1 point per vehicle—maximum of 3 points).	\$\$\$\$	1, 2 or 3
7.12	Builder's primary place of business (i.e. office) is certified via a recognized third-party best practice program.	\$	3
7.13	Builder agrees to construct and label a minimum of 50% of all homes to the BUILT GREEN® standard per calendar year. (3 points for 50%; 5 points for 100%).	\$ - \$\$	3 or 5
7.14	For this house, the builder conducts an air-tightness inspection at the pre-drywall stage (1 point) with optional door-fan depressurization test (1 additional point).	\$	1 or 2
7.15	Training:		
7.15.1	Contracted trades, suppliers, and/or supporting design professionals have successfully taken and maintained BUILT GREEN® Training: Program Fundamentals, Module 1, or Building Science Training endorsed by Built Green Canada (e.g. NRCan's CEA or R-2000 courses, or related formal schooling). BUILT GREEN® training must be updated every two years. (1 point per trade organization-maximum 5).	\$	1 to 5
7.15.2	Builder's site superintendent has successfully taken and maintained BUILT GREEN® Training: Program Fundamentals, Module 1 (1 point), and/or Building Science Training endorsed by Built Green Canada (e.g. NRCan's CEA or R-2000 courses, or related formal schooling) (2 additional points). BUILT GREEN® training must be updated every two years.	\$	1, 2 or 3
7.16	Builder's construction site and sales office signage clearly display the BUILT GREEN® logo and promote the fact that the project is registered as a BUILT GREEN® project.	\$	1

TOTAL SECTION POINTS 0

TOTAL CHECKLIST POINTS 0

Notes on proposed updates...

Comments / Notes

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Formerly 1-1

Comments / Notes

updated: clarified R values; formerly 1-2

formerly 1-3

formerly 1-4

formerly 1-5

formerly 1-6

formerly 1-7

formerly 1-8

formerly 1-9

formerly 1-10

formerly 1-11
updated; replaces 1-12
formerly 1-13
formerly 1-14
combined former 1-15 and 1-16
formerly 1-17
formerly 1-18
updated from former 1-19

Comments / Notes

Formerly 1-20
Formerly 1-21
Formerly 1-22
formerly 1-23
formerly 1-24

formerly 1-25
updated efficiencies from former 1-26
formerly 1-27
formerly 1-28
formerly 1-29
updated from former 1-30
formerly 1-32
updated from former 1-33
updated from former 1-34

Comments / Notes

correct "range" to "oven": formerly 1-35
NEW
formerly 1-36
formerly 1-37
formerly 1-38
formerly 1-39

Comments / Notes

	formerly 1-40
	formerly 1-41
	formerly 1-42
	NEW

Comments / Notes

	updated; formerly 1-43
	updated; formerly 1-44
	formerly 1-45
	formerly 1-46
	formerly 1-47
	formerly 1-48
	corrected to account for OR's

Comments / Notes

	formerly 2-1
	formerly 2-2
	formerly 2-3
	formerly 2-4
	formerly 2-5
	formerly 2-6
	formerly 2-7
	formerly 2-8
	formerly 2-9
	formerly 2-10
	formerly 2-11
	formerly 2-12
	formerly 2-13

formerly 2-14

formerly 2-15

formerly 2-16

Comments / Notes

formerly 2-17

formerly 2-18

formerly 2-19

formerly 2-20

updated from former 2-21

formerly 2-22

Comments / Notes

updated point value; formerly 2-23

updated point value; formerly 2-24
former 2-25 deleted

updated; formerly 2-26

formerly 2-27

former 2-28 moved to section 2.3 below
formerly 2-29; Explain 90% rule in ref guide

updated; formerly 2-30

formerly 2-31; Explain 90% rule in ref guide

Comments / Notes

formerly 2-32

formerly 2-33

formerly 2-34

Comments / Notes

formerly 2-35

formerly 2-36

formerly 2-37

formerly 2-38

formerly 2-39

formerly 2-40

formerly 2-41

formerly 2-42

formerly 2-43

formerly 5-5

Comments / Notes

--

clarified "lifetime"; formerly 2-44

reduced point value: see 2-28 for complimentary benefit

NEW

Comments / Notes

updated

updated

NEW

updated

updated

Comments / Notes

updated "by weight or volume"

