



Built Green Canada Database of Requests for Information or Interpretation (RFI's) for SFNH

RFI #	Inquiry				Draft Response	Status	Status Date	Checklist Updated / Errata Issue
	Point No.	Point No. Description & Point Value	Date	Inquiry Description				
Sample	EE 1-1		01/01/2012	Can I use EnerGuide instead of going through the whole list of points in the Energy and Envelope category?	Yes. See Energy and Envelope point 1-0.	Approved	2012.01.01	06/07/1905
2012-001	EE 1-12		2012.02.23	This refers to using spray foam to seal windows/doors - in the lower Mainland of BC it is very typical to use backer rod and caulking to air-seal windows and doors. Can a builder get a point if rod/caulk is used?	Yes, backer rod and caulking will be accepted as an equivalent alternative to foam, on the condition that there is adequate air seal.	Approved	2012.03.21	for 2014 Ref Guide
2012-002	EE 1-25/27		2012.02.23	Can a builder only claim one or the other (1-25 or 1-27)? Or is 1-27 only for combo/combi systems?	A builder may claim one or the other. Items 1-25 to 1-28 are intended to be exclusive of each other.	Denied	2012.03.21	2014: checklist updated to
2012-003			2012.01.30	Clarification on cost savings for various BG levels, i.e.. Platinum is 40% more efficient than Gold		Waiting		
2012-004	EE 1-2		17-Apr-12	Incoming Vancouver code requirements increase thermal performance to R22 including a thermal break layer of insulation and in our case: rain screen. If we add another 2 inches as per the BG requirement we end up with an overly thick wall for this tight infill project. Therefore we propose to use spray Polyurethane foam as illustrated in the wall assemblies sketch attached. Description of product attached. We still have the thermal break between the studs and the rain screen. We have improved the thermal performance by over 20% above the incoming higher code requirements.	Inquiry references item 2-33 from the 2011 checklist. Reference item 1-2 of the new 2012 checklist instead. The intent of these items is to recognize additional R-value outside of the wall cavity. Regardless of wall assembly, additional R-value outside the wall cavity will be respected and accorded the points listed. Additional 1.5" is worth 1 point, additional 2" is worth 3 points. The project in question provides 1.5" of exterior rigid insulation, and will therefore earn 1 point. For future, consider revising item 1-2 similar to 1-8 to clearly list intended R-values associated with each point level (eg: R5 for 1 point, R10 for 3 pts).	Approved	2012.04.18	2014
2012-005	2-7, 2-35, 2-36, App. A Single Family Guide		05-May-12	Appendix A includes a reference to Metafora that is inappropriate. Instead, include a simple environmental statement that BGC encourages/rewards all wood products that come from responsibly managed forests and supports the following certification programs; SFI, FSC, CSA...and then refer them to the www.certificationcanada.org web site for additional information. I strongly discourage you to attempt to compare systems...You don't want to embark in that political arena.	This is a moot point. Action Items 2-7, 2-35, and 2-36 already accord equal credit to FSC, SFI, and CSA certified wood. Refer to the Checklist and Reference Guide for further detail. The next release of the Built Green Single Family New Home reference guide will include appropriate updates to Appendix A.	Draft	2012.06.20	2014 Ref Guide to be clarified
2012-006	App. A Single Family Guide		05-May-12	Paragraph 1 claims there are 4 forest certification systems. Actually there are dozens worldwide. Canada operates with 3 SFI, FSC, and CSA	The next release of the Built Green Single Family New Home reference guide will be updated appropriately.	Draft	2012.06.20	See 2012-005
2012-007	App. A Single Family Guide		05-May-12	The link at the bottom of the appendix does not work. That website has been down for years. Suggest the following link: www.certificationcanada.org	The next release of the Built Green Single Family New Home reference guide will be updated appropriately.	Draft	2012.06.20	See 2012-005
2012-008	5-7		01-Jun-12	The inquiry describes several challenges the rural project is having with Waste Management Action Items 5-2, 5-5, 5-10, and then makes this specific request: "The area that I have a question on relates to 5-7 for the use of recyclable forms for foundation walls. They cannot do this as they are installing ICFs which require no forms and I would like to take the point for this checklist item."	Item 5-7 has intent to encourage use of better form systems, thus reducing waste associated with dimensional lumber commonly used in formwork. Any foundation system which uses durable and metal forming systems (including metal braces and scaffolds for ICF projects), and does not use lumber, will comply with the intent of this item.	Approved	2012.06.20	2014 Ref Guide to be clarified

2012-009	6-11		07-Jun-12	The TWCA is the Turfgrass Water Conservation Alliance that does research to qualify the seed of which Water Star by Pennington is one. www.tgwca.org for more information, and refer to the provided Water Star brochure. Their turf/seed is drought tolerant: avoids the need for an irrigation system and will provide 30-50% water savings because the grass consumes that much less to stay green. Is our water saving turf/seed a fit for Built Green?	The Reference Guide clarifies that "Xeriscaping (or drought resistant landscaping) plans and options can be obtained from professional landscaping contractors, and once a xeriscaping landscape is in place, it requires no manual watering. The plan should be prepared by a landscape professional, biologist, or other qualified professional. Rain barrel usage and astro turf measures are ineligible for credit." If the landscape designer responsible for specifying TWCA product is willing to sign and vouch that the product is xeriscaped (i.e.: installed appropriately in a climate zone for which it is suited, and thus will not need irrigating), then the TWCA product will be eligible for this point.	Approved	2012.09.19	2014 Ref Guide to be clarified
2012-010	Section 5		20-Jun-12	For rural project locations, consider adding flexibility to the Waste Management category to better enable them to participate in Built Green and achieve the minimum required 7 points in this category.	Projects occurring in regions that are minimum 200km away from the nearest population center with minimum 30,000 residents shall be permitted to pursue an additional point for waste reduction. If the total amount of waste produced on the construction site is less than ___ lbs./ft2, then the project shall be graded 1 point. 2 points are available for reducing waste below ___ lbs./ft2, and 3 points for reducing waste below ___ lbs./ft2.	Approved	08-Oct-13	06-Jul-05
2012-011	6-8	Install permeable paving materials for all driveways and walkways (3 points).	09-Nov-12	Can you clarify what is a supplementary cementing material. Concrete company thinks it is the cement powder.	The materials in question is most often flyash (there are other klinkers as well) the byproduct of the coal burning industry. The product is added to reduce the amount of cement. The amount required for the point is 20% which is often not the case. The concrete supplier can often, but not always tell you what the content is. Please remember that the point needs to be substantiated if it is called to be verified. The supplier should provide you with a document or product sheet outlining the flyash content %.			2014 Ref Guide to be clarified
2012-012	6-8	Install permeable paving materials for all driveways and walkways (3 points).	09-Nov-12	Can you clarify 6-8? What is a supplementary cementing material? Concrete company thinks it is the cement powder.	The materials in question is most often flyash (there are other klinkers as well) the byproduct of the coal burning industry. The product is added to reduce the amount of cement. The amount required for the point is 20% which is often not the case. The concrete supplier can often, but not always tell you what the content is. Please remember that the point needs to be substantiated if it is called to be verified. The supplier should provide you with a document or product sheet outlining the flyash content %.		Annual Review in Fall 2013	2014 Ref Guide to be clarified
2012-013	2-9	Dimensional lumber from a third-party certified sustainably harvested source used for floor framing (CSA, FSC, or SFI) ((1 point).	09-Nov-12	Can you expand on this please?	This has to do with the overall strategy of Optimal Value Engineering (aka Advanced Framing Techniques). If a 24" building grid is applied and the windows are sized and placed within the grid, then some of the cripples are eliminated. For example using a 24" oc wall assembly, a 4' wide window is placed within the 24" oc x 2 stud width then there will not be any need to put cripples on the inside of the stud under the window framing. The only support (cripples) required is between, enough to support the window. In this case two cripples are saved from being used.		Annual Review in Fall 2013	2014 Ref Guide to be clarified

2012-014	[proposed new]		10-Nov-12	Consider referencing the use of fungicide/pesticide products within the checklists, as mold and insect infestations affect indoor air quality.	Fungicides and pesticides are not credited in the checklists. Proper envelope construction should eliminate the need for relying on fungicides and pesticides.	Denied	21-Nov-12	No change
2012-015	3-29?	Physical Vapor Disposition (PVD) provides a more durable product; no toxic wastes are produced making it.	16-Nov-12	I think it should be Physical Vapor Deposition. Disposition would be an inclination towards something. Deposition would be depositing something like a coating. http://www.azom.com/article.aspx?ArticleID=1558	Denied. Lifetime warranties only.	Denied	Annual Review in Fall 2013	No change
2012-016	1-12	Advances sealing package, non HCFC expanding foam around window and door openings and all exterior wall penetrations (1 point).	20-Nov-12	1-12 refers to using spray foam around windows; some of the window manufacturers are voiding their warranty if the foam is used. If the builder uses rod and caulk, would this be a justified alternative?	Air barrier aligned rod and caulk are acceptable measures to comply	Approved	21-Nov-12	2014 checklist: item deleted
2012-017	Section 3	Indoor Air Quality	21-Nov-12	Section 3 refers to filters in HVAC systems. Here we have a lot of projects with either baseboard heating or radiant floor heating but incorporate an HRV, the only place where a filter would be present. Would the quality of this filter factor into this point - for example using the HEPA?	Projects with non-ducted space heating systems are eligible for points if their ventilation system incorporates an air filter meeting the specified MERV ratings	Approved	21-Nov-12	No change
2012-018	7-14	Contracted trades and/or suppliers have successfully taken and maintained Built Green® Training status (1 point per trade organization, Max 5).	21-Nov-12	Points are allocated for trades and organizations having taken and maintained the BG training; can points be taken for the architect and/or builder as well?	It is assumed standard practice for builders and architects to be taking BG training. It is also an eligibility criteria for participation in the program. The intention is to encourage training among those less likely (i.e. suppliers and trades) to take it.	Approved	21-Nov-12	No change
2013-019	2-7, 2-9 - 2-13	Under Section 2, Materials and Methods, these items refer to third-party certified sustainably harvest wood source (CSA, FSC or SFI). Associated points range from 1 or 2.	Ongoing	Request from SFI was for updates to both the checklist and reference guide.	It was communicated this would be done for the guide when the next round of updates are made.	Approved	Annual Review in Fall 2013	Redundant: see 2012-005
2013-020	1-30	Install drain water heat recovery units on the main drainage stack 3 foot stack (1 point); 6 foot stack that is insulated (2 points).	41340	Request that the length requirement be removed for Drain water heat Recovery. There is dispute as to whether a 6' will pick up more heat than a 3'.	TSC to review the length requirement on the checklist. Note: EcoInnovation is the only manufacturer that meets the plumbing code for DWHR certification. The requirement is newly released CSA 55.1 and 55.2 certification designed specifically for DWHR technology. http://oee.nrcan.gc.ca/pml-imp/index.cfm?language_langue=en&action=app.search-recherche&appliance=DWHR&attr=0	Waiting	Annual Review in Fall 2013 (see below)	2014 Ref Guide to be clarified

2013-20 con't	1-30	Change to: Install drain water heat recovery units on the main drainage stack. 3 foot stack (1 point), 6 foot stack that is insulated (2 points).	02-Aug-13	Proposal: Install drain water heat recovery units on the main drainage stack. Product must be CSA certified to B55.1 and B55.2. For less than 42% efficiency (1 point), for efficiency over 42% (2 points). Where two showers exist, both showers must collectively pass through a drain water heat recovery unit for full points. If only one passes through, only half the points are allocated. Where only one shows exists in the same, full points apply.	Rationale: Drain water heat recovery is measured by efficiency and not by length. Currently, in all other programs, this technology is given credit based on the following: number of showers, number of showers draining through a drain water heat recovery unit and the 3rd party verified efficiency of the drain water heat recovery unit. some manufacturers have drain water heat recovery units that meet the current two point category and recovery just as much heat as another manufacturer's product that only gets 1 point. Reference Natural Resources Canada website on 3rd party test results for drain water heat recovery efficiency. More, water cycles DX-5058 is 60" long and is less efficient (42% non CSA tested). In other words, the unit getting 1 point is recovering more energy than the unit that is getting 2 points under the current system.	Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-20 con	1-30	RFI Ruling provides credit to DWHR, based on their % efficiencies rather than simply their lengths.	01-Feb-14	That DWHR credits are based on % efficiencies rather than simply lengths.	Any DWHR units that are > 42% efficient get 2 points, whereas any that are < 42% efficient only get 1 point. Note: For further reference please see NRCar's "New Housing Programs' 2012 Energy Credits" document listing the % efficiencies of the various DWHR models available on the market, and/or CSA 55.1 testing results.	Approved	01-Feb-14	Effective as of February 2014 and to be reflected on 2015 Checklist
2013-021	6-6	Provide front loading clothes washer (3 points), or Condensing Combination wash/dry unit (4 points).	04-Apr-13	Do top-loading high efficient washing machines qualify for 6-6?	TSC discussed and at this point, the answer was no; however, the committee would consider this for next round updates providing the machine demonstrate itself as more efficient that the existing 6-6 checklist item. TSC determined in order to earn points for 6-6, the clothes washer must be front loading, or alternatively must have a water Factor rating of less than 6 (gallons per cycle per cubic foot).	Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-022	Section 7	[proposed new]	15-Apr-13	Suggestion that points be included for Electric Vehicle Plug-ins under Section 7, Business Practices.	TSC discussed this and were interested in the suggestion w/ further consideration as part of the next round of checklist updates.	Approved	Annual Review in Fall 2013	2014
2013-023	1-24	Install HVAC appliance with variable speed fan (ECM) (1 point).	30-Apr-13	Does the HVAC appliance fan motor refer to any DC motor, or specifically to variable speed motors? There is confusion amongst builders wrt "variable speed"? Reference link: http://yorkcentraltechtalk.wordpress.com/2012/10/27/x-13-motors-what-are-they/	The motor does not yet beat the BGC standard; however, this will be reviewed again when the checklist is revised. At that point, if the motor still does not meet the standard, the wording on the checklist will be reviewed and updated as required to ensure greater clarity. Further, TSC requested suggestions... there may be a requirement for another category. Perhaps the X13 motor can be 1 point and the variable speed motor can be worth 2 points. Additional info attached to support the recommendation for including these motors in the BG checklist (X13 DC motors).	Waiting	Annual Review in Fall 2013	2014
2013-024	1-12	Advanced sealing package, non HCFC expanding foam around window and door openings and all exterior wall penetrations.	14-May-13	I wonder if item 1-12 (Advanced sealing package, non HCFC expanding foam around window and door openings and all exterior wall penetrations) can be revised to include the use of backer rod and caulking since that is what is used in the Lower Mainland/Vancouver Island. We have long since had approval for the use of rod-caulk but all local builders ask about it since it is not listed in the checklist item.	Yes, we can use. TSC wants to include in the next round of checklist updates.	Approved	Annual Review in Fall 2013	2014: deleted

2013-025	2-44	Minimum 30-year manufacturer warranty roofing material (2 points plus 1 point for each additional 5 years).	20-Jun-13	We are using an asphalt shingle with a lifetime warranty. Does this count for the full six points?	TSC requested further information/proof on how "lifetime" was defined. Further information was provided and points were approved. Wording of checklist item to be reviewed.	Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-026	4-6	Install permanent (de)humidification control (ERV's are considered acceptable (1 point)	20-Jun-13	Originally query was for points to be awarded for a humidifier. TSC agreed this is for controls and not the humidifier itself ~ not wanting to award points for efficient humidification if there is no evidence it was required (i.e., it is more energy efficient to not humidify). Further discussion led to the conclusion the guide is quite explicit in recognizing both dehumidifier and humidifier systems. With either system, by default, will require some level of control to activate the system...	The loop was closed on the query; however, may warrant further discussion at annual review. Kyle to speak to this in September.	Waiting	September TSC Meeting and Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-027	5-8	Install permanent recycling center for the homeowner with two or more bins (1 point), or four or more bins (2 points).	22-Jul-13	Is there a certain size of recycle bin that we could supply in our homes which would be large enough to get us 1 point (rather than 2 small bins)? And, do the dimensions of the bin matter, or simply the quantity of bins?	One recycling bin is fine as long as there is "mixed recycling" program available in the area, i.e. the bins installed should suit water programs being practice by that particular municipality. WRT size, some discretion is available here, though probably no less than half the size (in volume) of a standard blue box.	Waiting	Annual Review in Fall 2013 (see below)	2014 Ref Guide to be clarified
2013-028 con't	5-8	Change to: Install permanent recycling centre designed to hold 52L of recycling in or adjacent to the kitchen (1 point).	26-Jul-13	Add: Number of bins must e determined by local recycling facilities. 1 bin for commingled recycling of 52L, 2 for separated materials of 26L each is considered acceptable."	Lower credit due to how common this is. 26L is a typical 12x15x15 recycling bin, so 52L provides for 2 bins. Must be near the kitchen for easy use. This allows for kitchen or pantry cabinet, mud room or garage depending on house design.	Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-029	1-17	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).	30-Jul-13	They have permanent shading that overhangs over every window. Is this acceptable.	Has the overhang been designed to provide passive shading and solar heating? Builder to provide solar study to ensure overhangs provide shading on June 21 and on December 21. Are the eaves oversized proven better than typical? 2' or better. No points for standard construction hip roof as that is just a design decision not a green improvement.	Waiting	September TSC Meeting	2014 Ref Guide to be clarified
2013-030	2-52	Deck or veranda surfaces made from low maintenance materials - deck surfaces do not need maintenance of any kind, including painting for a minimum of 5 years (2 points).	30-Jul-13	Does pressure treated wood apply?	[Mixed responses from TSC]	Waiting	September TSC Meeting	No change
2013-031	5-9	Provide composter to homeowner (1 point).	30-Jul-13	Is sufficient that the Municipality of Jasper provides a composter centre close to the house? Or does the builder need to provide an individual composting bin to the homeowner?	How close, back of the property? Again it has be very convenient to capture and deposit compostables. "Down the block" does not meet the intent here. No.	Waiting	Annual Review in Fall 2013	2014

2013-032	2-7	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 points)	30-Jul-13	The home will be built using a double-stud exterior wall. If advances framing techniques are used on the inside part of the double stud wall and not on the outside part of the double stud wall, can this checklist item be claimed?	Incorrect reference: should reference 2-9	Denied	September TSC Meeting	No change
2013-032 cont'd	2-8	[deleted]				Denied		
2013-032 cont'd	2-9	Dimensional lumber from a third-party certified sustainably harvested sources used for floor framing (CSA, FSC, or SFI)	30-Jul-13	The home will be built using a double-stud exterior wall. If advances framing techniques are used on the inside part of the double stud wall and not on the outside part of the double stud wall, can this checklist item be claimed?	Denied: the intent is ALL dimensional lumber.	Denied	September TSC Meeting	No change
2013-032 cont'd	2-10	Dimensional lumber from a third-party certified sustainably harvested sources used for wall framing (CSA, FSC, or SFI)	30-Jul-13	The home will be built using a double-stud exterior wall. If advances framing techniques are used on the inside part of the double stud wall and not on the outside part of the double stud wall, can this checklist item be claimed?	Denied: the intent is ALL dimensional lumber.	Denied	September TSC Meeting	No change
2013-033	2-30	Local natural stone or recycled content (30%) solid countertops for all kitchen counters (2 points), all other counter tops (1 point).	30-Jul-13	Townhouse project: About 2/3 of the units will be built over an underground parkade. Would the builder need to spray foam the entire ceiling of the parkade (which would be the underside of the lowest floor or the townhouse units) in order to claim item 2-30 with respect to "exposed floors"? The builder is hoping to claim credit for insulating the concrete ceiling of the garage below the townhouse units with a spray product, which is not foam (It's spray in-place fiberglass I believe). I propose that the spray application will provide the benefits of full insulation coverage while the concrete suspended slab (i.e. the garage ceiling) will provide the benefit of a good air barrier; hence the item 2-30 "should" be claimed. We are using the 2011 checklist since this project was enrolled near the end of 2012. Einar	[old project using old 2011 checklist] Point is given for insulating exposed floors. For units over a parking garage, their floor is exposed in the garage, thus insulating the garage ceiling is insulating the exposed floor.	Approved	September TSC Meeting	[old project using old checklist]
2013-033 cont'	2-30	Con't	30-Jul-13	Further to the above, if the builder uses a spray-on insulation, which is not a foam product can they get the 2 points for insulating "exposed floors"?	TSC is not concerned about what type of insulation, as long as it performs and is CSA rated.	Approved	August 9 Complete	
2013-034	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 (not required to be consecutive), and provide new filters in the air handler after the flush is complete (1 point).	08-Aug-13	What is the best way to provide evidence in support of this checklist item (wrt an audit)?		Waiting	September TSC Meeting	2014 Ref Guide to be clarified

2013-034	1-31	All gas fireplaces are sealed and have electronic ignition, or no combustion - based fireplaces are provided (2 points)	08-Aug-13	Inquiry was around the language used here. Their interpretation is that if you don't provide a combustion based fireplace that you can have these points.	No fireplace gets 2 points, good fireplace gets 2 points, recirc fan gets 2 points - these are all separate ideas that should be kept separate and rewarded separately, and are cumulative when used together. It would be good to revisit how many points each of these items is worth when we next review the checklist, and to review whether we've missed anything and need to consider adding other items.	Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-035	1-33	Install fireplace fan kit to circulate warm air into room (1 point per fan, maximum 2 points)	08-Aug-13	Inquiry here as well is about language. Fireplaces are typically a very inefficient way of heating your home.		Waiting	Annual Review in Fall 2013	2014 Ref Guide to be clarified
2013-036	1-22	Install a ground/water (min 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 1-2 (5 points).	09-Aug-13	This is the relevant category for most SunPumps that come with radiant space heating. The incumbent two categories of Geo and Air, GSHP + ASHP, should have the wording amended to add an in between category called Solar Source Heat Pumps, or SSHP. COP should be above 3. A Cold Climate Heat Pump (one using EVI compressor or able to have COP>1.2 at -25C) should receive extra points for the improved performance.	Several had not heard of your product until now and were wondering about some of the savings number is the pdf you supplied but thought it was a way of achieving two things: (1) solar air heating (which is not well represented in our current checklist, and is worth revisiting when we update the list) and (2) integrated water/air conditioning, which presently isn't explicit in our list, but is somewhat implicit behind 1-22 and 1-28. Revised Sept. 2013: Invalid product claims. This is an uncertified solar collector and ASHP.	Denied	September TSC Meeting and Annual Review in Fall 2013	No change
2013-037	1-28	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.	09-Aug-13	This is the relevant category for most SunPumps that only provide DHW, so they are the same as the Heat Pump Hot Water Tank, except in the possible format of being a split unit with an outdoor panel connected by a line set as a replacement to two supply/return air ducts for the modern HP-HWT. The Energy Factor (COP), will be above 2.0	Anticipate this as a go. This is also the relevant category for integrated units which provide both space and DHW heating: you can sometimes take credit for one product in multiple places, and integrated heat pump system being an example of this (spanning both 1-22 and 1-28). Revised Sept. 2013: Invalid product claims. This is an uncertified solar collector and ASHP.	Denied	September TSC Meeting and Annual Review in Fall 2013	No change
2013-038	1-41	Install active solar hot water heating system. Sized for 30% of DHW load (5 points), 50% (6 points), 80% (8 points) (5, 6, or 8 points).	09-Aug-13	This is relevant to the purpose of recognizing site generated solar thermal energy. The SunPump with solar thermal panels is a natural fit in this category, and would typically supply 90-100% of the DHW load. Some wording change that recognize "solar evaporator panels" would suffice to add this emerging category.	Anticipate this as a go. No change required. Revised Sept. 2013: Invalid product claims. This is an uncertified solar collector and ASHP.	Denied	September TSC Meeting.	No change
2013-039	1-42	Install photovoltaic electrical generation system. Sized for 30% of electric load (4 points), 50% (6 points), 80% (8 points) (4, 6 or 8 points).	09-Aug-13	This is relevant when the SunPump is using the option of a Photovoltaic Thermal hybrid panel, that generates both DC voltage and Thermal energy, in kWp and kWt.	See 2013-039	Denied	September TSC Meeting.	No change

2013-040	1-22, 1-28, 1-41, 1-42 con't	Con't		Applying these categories could involve the following combinations that are available in the market: (a) Sun Pump basic - DHW with Solar thermal panels, would qualify for both 1-28 and 1-41(b) SunPump plus - Space Heating and DHW with Solar thermal panels, would qualify for 1-22, 1-28 and 1-41, and (c) SunPump PV plus - Space Heating and DHW with Solar PV + Thermal panels, would qualify for 1-22, 1-28, 1-41 and 1-42.	SunPump Plus - I don't anticipate this will be a go as 1-22 does not presently recognize a solar heat pump for air heating. This is a change we can consider for the next round of checklist revisions. There was some agreement on eligibility for 1-28 and 1-41. SunPump PV plus - This one was also not agreed to as 1-22 does not presently recognize a solar heat pump for air heating. This is a change we can consider for the next round of checklist revisions. There was some agreement on 1-28, 1-41 and 1-42.	Denied	September TSC Meeting and Annual Review in Fall 2013	No change
2013-048	7-15	Builder's Site Superintendent has successfully taken and maintained Built Green® Training Status (2 points).	05-Sep-13	Board of Director's motion to change training requirements and encourage Building Science training by rewarding points. This impacts 7-14 and 7-15.		Waiting	Annual Review in Fall 2013	No change
2013-049	1-2	Install additional rigid insulation on exterior of above grade walls, above code required framing cavity insulation. 1.5" (1 point) or 2" (3 points).	08-Sep-13	Is Roxul Comfortboard considered to be rigid? I feel this product is environmentally better than the rigid foam boards. There is no issue with trapping moisture in the wall cavities as the product is breathable (Attached).	Item is limited to the wording used. Change the wording to "appropriate insulation product"	Waiting	Annual Review in Fall 2013	2014
2013-050	1-5	Insulated Concrete Form (ICF) system used for 75% of above grade house walls (3 points).	08-Sep-13	As the production of cement is a big polluter of the atmosphere I think there should only be fewer points awarded for ICF unless there is a minimum amount of recycled content in place of portland cement. The R value of ICF blocks can easily be obtained using timber walls and although "thermal mass" is often quoted by manufacturers as a plus point there is no evidence that this is of any use in the Canadian climate. Thermal mass, to be effective, should also be inside the insulation which, clearly, is not the case. ICF is, however, good for durability and air tightness although, again, good attention to detail can produce air tightness results in a wood built house that are comparable with ICF (Attached).	The embodied energy in creating concrete is high, but the material lasts for 100+ years. The issue is the cycle of the housing industry. It also has other benefits for example no form work required.	Denied	Annual Review in Fall 2013	No change
2013-051	1-7	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).	08-Sep-13	To use polyurethane spray foam in walls is not likely to be very cost effective and, unless exterior insulation is used, there would still be a thermal loss through the studs. In addition to this there are still concerns regarding the use of this foam, off gassing, blowing agents, etc. Maybe a few points less for using it in walls?	Built Green is not a cost benefit analysis tool. The insulative value and the airtightness (albeit no long term data available as it ages or the wood dries...) capabilities can not be entirely ignored.	Denied	Annual Review in Fall 2013	No change
2013-052	1-15	Attach garage overhead door is insulated with R8 to R12 (1 point) or greater than R12 (2 points).	08-Sep-13	Unless the garage is heated there is little value in an insulated garage door. The doors have big air leakage and are often installed in a garage with no underslab insulation. The garage would normally be outside of the thermal envelope of the house (Article attached).		Waiting	Annual Review in Fall 2013	2014
2013-053	1-18	All windows in home are Energy Star labelled (or equivalent) for the climatic zone of the home (1 point). Or for a higher zone (ex. zone C windows on a home in zone B) (for 2 points).	08-Sep-13	I believe the climate zones will be changing in February 2015. Will this be taken into account in the new checklist? http://oee.nrcan.gc.ca/equipment/manufacturers/specifications/18325 . I would also like you to consider awarding points for the use of triple glazed windows as they perform much better.	Re-evaluate late 2014. Not yet relevant	Waiting	Annual Review in Fall 2013	Defer to 2015

2013-054	1-24	Install HVAC appliance with variable speed fan (ECM).	08-Sep-13	I would like consideration given for extra point(s) if the motor to the furnace is DC. In the Livesmart BC incentive programme there was a stipulation for the DC motor to be able to get the grant.	This is a wording issue. Brushless DC motors are also known as ECM	Waiting	Annual Review in Fall 2013	2014
2013-055	1-26	Install Energy Star rated "tankless" hot water heater (EF between 0.70 and 0.85 for 2 points, EF>0.85 for 3 points).	08-Sep-13	Consider reducing the points awarded as there can sometimes be a reasonable amount of water wastage with these units. Some newer models have been improved but many still have a 'lag time' to product hot water at the faucet.	This could be addressed in the water efficiency section. The unit still is more effective enrgy wise than a tank system	Waiting	Annual Review in Fall 2013	2014
2013-056	1-28	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.	08-Sep-13	Serious thought should be given before installing a heat pump water heater, particularly an air source unit. Unless the tank is situated in an unconditional space, or the supply and exhaust air ducted to the outside, there will be an energy penalty to pay. The tank will be using heated air in the winter months which will have to be replaced by the heating system, thus negating some of the advantages for hot water heating. The tank will also give off cold air, as any other heat pump would and this may cause discomfort issues with the homeowner. They are, perhaps, better suited in a hot climate zone. Again, going back to Livesmart BC, they would not pay a grant unless there installation conditions were met.	The only time there is an energy penalty is when the heat pump is outside the conditioned space. If inside, the minor loss turns into heat in the space anyway (ie: it is not truly lost). This is what heat pumps are intended for: they move heat (in this case from the air around the tank into the tank): especially for heat pumps with COP>1, the impact will be positive.	Denied	Annual Review in Fall 2013	No change
2013-057	2-32	Exterior doors with a minimum of 15% recycled and/or recovered content.	08-Sep-13	Both of these items (this and below) may now be affected by the NAFSO8+ Canadian Supplement due to take effect this coming December. Clarification is needed please.	Always need to meet the national/regional codes first. If the product does not meet then don't use. The manufacturer will likely respond to the code changes. Some already have.	Denied	Annual Review in Fall 2013	No change
2013-058	2-35	Exterior window frames contain a minimum of 10% recycled content.	08-Sep-13	See above.	See above	Denied	Annual Review in Fall 2013	No change
2013-059	2-46	Use rain screen system separating cladding from the wall sheathing with a drainage plane (2 points), 60% or more recycled content (additional 1 point).	08-Sep-13	Is this not a code item in BC? If so, then perhaps the points should be reduced or phased out. I have always thought that Built Green should be considerably better than code and that there should be little, if any, advantage in using code items to get checklist points.	If it is code then the item is not to be used. Built Green is about being above minimum code requirements and building a better house. If the builder is using points that are already code then it needs to be addressed in a memo and in the future training.	Approved	Annual Review in Fall 2013	No change
2013-060	6-1	Install a dual flush or pressure assisted toilet in one ore more bathrooms (3 points for first, 1 additional point for each after to maximum 5 points) or	08-Sep-13	Same observations at 2-46.	Not part of NBC.	Denied	Annual Review in Fall 2013	No change
2013-061	6-2	Install a 1.28 GPF toilet in one ore more bathrooms (2 points for first, 1 additional point for each after)	08-Sep-13	Same observations at 2-46.	Not part of NBC.	Waiting	Annual Review in Fall 2013	No change
2013-062	6-5	Install low flow faucets for all kitchen faucets and lavatories (2 points), all showers and tub/showers (additional 1 point).	08-Sep-13	Same observations at 2-46.	Not part of NBC.	Waiting	Annual Review in Fall 2013	No change

2013-063	6-4	Install hot water recirculation system with all hot water lines insulated (4 points), or point-of-use instant DHW system (1 point each, max. 4).	08-Sep-13	The recirculation system should not be continuously operated in order to qualify for these points as this is not an efficient way to get instant hot water. The circulation pump is better operated by a switch activated in the kitchen and bathroom for when hot water is needed. There are several makes of these switches and pumps available.	Um good point.	Waiting	Annual Review in Fall 2013	
2013-064	Cover Page	n/a	01-Oct-13	The title 'Single-Family' seems like a misnomer, unless we're lumping Part 9 MURBs (i.e. low-rise multi-family) with the HD program.	We are.	Waiting	Annual Review in Fall 2013	No change
2013-065	1-25 through 1-28	All related to DHW equipment, 2-3 pts	01-Oct-13	Should these be labeled as mutually exclusive (perhaps combined into one credit?) since they all pertain to the type of DHW system installed?		Waiting	Annual Review in Fall 2013	2014: added "OR"s
2013-066	4-5	Install an active Heat Recovery Ventilator or Energy Recovery Ventilator (HRV or ERV) and verify balanced installation. (2 pts)	01-Oct-13	Should more points be given for high efficiency HRV's?		Waiting	Annual Review in Fall 2013	2014
2013-067	4-7	Ventilation system is installed according to CSA Standard F326, as recommended by the Heating, Refrigeration and Air Conditioning Institute of Canada (HRAI). (4 pts)	01-Oct-13	Should CSA F326 really be given credit (i.e. isn't this referenced in Building Code in all provinces?); can we swap this with more efficient HRV, as discussed above?		Denied	Annual Review in Fall 2013	2014
2013-068	6-5	Install low flow faucets for all kitchen faucets and lavatories (2 points), all showers & tub/showers (additional 1 point).	01-Oct-13	Re-word to be more specific about flow rates, consider giving more credit to showerhead than to faucets, and consider removing credit for kitchen faucet (which many feel doesn't actually save water)		Approved	Annual Review in Fall 2013	2014
2013-069	6-1, 6-2, 6-3	All toilet related (2-6 pts)	01-Oct-13	To simplify, can we combine these three into 1 Action Item, since they are all toilet related		Approved	Annual Review in Fall 2013	2014
2013-070	3-9	All insulation in the home is third-party certified or certified with low or zero formaldehyde. (2 pts)	01-Oct-13	3-9 should have number attached to specify what 'low' means (see 3-10 through 3-13 for example)	Deleted references to "low"	Approved	Annual Review in Fall 2013	2014
2013-071	Section III	General comment for Sect. III	01-Oct-13	Should include credit for installing CO monitors in section III	Fire safety code covers this. Did the inquirant intend to refer to CO2?	Approved	Annual Review in Fall 2013	2014
2013-072	Section III or IV	General comment for Sect. III / IV	01-Oct-13	Maybe consider creating incentives for soil gas / radon protection in Section III or IV (i.e. 1 pt. for passive, 2 pts for active, and 1 additional pt for testing)?		Approved	Annual Review in Fall 2013	2014
2013-073	#2-17	Finger-jointed studs for 90% of non-structural (1 point) and/or 90% of structural (1 point) wall framing.	01-Oct-13	2-17 belongs in material efficient framing section (i.e. Section 2.1, not 2.2)	Finger joint is EPP because it uses makes use of what would otherwise be waste wood (ie: it's not recycled, but is EPP), and it does not enable the use of less wood, so it is not really related to efficient framing methods.	Denied	Annual Review in Fall 2013	no change

2013-074	#2-25, 2-26, and 2-28	All flooring-related	01-Oct-13	Specifying an area for points here seems arbitrary; should be based on % of flooring area in home instead.	Adjusted to %'s	Approved	Annual Review in Fall 2013	2014
2013-075	#5-5	Use of salvaged materials derived from local sources (1 point for each different product used, to max. of 3).	01-Oct-13	5-5 belongs in Section 2.2, since it is not a waste management strategy from the project in question, but rather a use of environmentally preferable materials (the supplier of the salvaged material on the other hand, could be commended for responsible waste management)	Good point.	Draft	Annual Review in Fall 2013	2014: item moved and renumbered
2013-076	Section III & IV	General comment regarding Section III & IV	01-Oct-13	Given how much overlap there is between the goals of the 2 sections, and how small Section IV currently is, could we consider combining Section IV - Ventilation, with Section III - Indoor Air Quality? I feel this would help simplify the checklist overall.	It may also be good optically. Schedule for discussion at TSC meeting.	Denied	Annual Review in Fall 2013	2014
2013-077	#4-5	Install an active Heat Recovery Ventilator or Energy Recovery Ventilator (HRV or ERV) and verify balanced installation.	01-Oct-13	Consider separating this Action Item into two AIs: 1 would recognize systems with balanced/continuous ventilation (kept with the other ventilation credits, pertains to IAQ), and the other would recognize systems with heat recovery (which could be moved to Section 1, as it pertains to energy conservation)		Denied	Annual Review in Fall 2013	2014
2013-078	#4-2	Install motorized damper on fresh air inlet (must be interlocked with furnace system), in accordance with CSA F326. (2 pts)	01-Oct-13	Seems redundant with 4-7, which again seems redundant with Building Code in most provinces and heavily weighted in points. At most, 1 pt should be awarded for designing a ventilation system that complies with CSA F326, 1 additional point should be awarded for designing a system with continuous ventilation (as opposed to exhaust-only or supply-only), and 1 or 2 additional points should be awarded for heater recovery of ventilation air (this last AI should be placed in Section I)		Approved	Annual Review in Fall 2013	2014
2013-079	Cover Page	General Comment	01-Oct-13	The cover pages of all checklists should include the building type in the heading (i.e. Single Family Checklist should not just have the heading "BUILT GREEN Checklist" on the cover page, but "Single Family" or "Low Rise" Built Green Checklist		Approved	Annual Review in Fall 2013	2014
2013-080	General	General Comment	01-Oct-13	Consider ordering the checklist sections in order of higher to lowest environmental impact (i.e. highest impact meaning sections with the highest number of points appear at the start, working gradually down to the sections with the lowest number of points, or least amount of environmental impact). This would just better highlight the "greenest" impact categories first.	Interesting for discussion, but certain to renumber most items and create difficulty when cross-referencing to older checklists.	Denied	Annual Review in Fall 2013	No change
2013-081	Section VI	Title of Section VI	01-Oct-13	Title of section should be changed from "Water Conservation" to "Water Management" since some of the AIs aren't necessarily about reducing water using, but better managing it outside the home (eg. Permeable pavers, topsoil, etc.) or simply making use of unconventional sources (i.e. greywater or rainwater).	Accepted.	Approved	Annual Review in Fall 2013	2014
2013-082	#2-1	Exterior and interior wall stud spacing at 19.2" on-center (1 point) or 24" on-center (2 points) .	17-Oct-13	All exterior walls are concrete sanveg panels. Interior walls are 24" OC framed. Am I able to take 2 points here?	1 point will be awarded for achieving 24" centres for interior walls.			
2013-083	#2-6	Use of two stud corner framing with drywall clips or scrap lumber for drywall backing instead of studs.	17-Oct-13	How do I show proof for reclaimed/ scrap wood used here? Will pictures do?	Pictures will be accepted.			
2013-084	#2-16	Reduce dimensional lumber use by using engineered stud material for 10% of structural stud wall framing.	17-Oct-13	Can concrete panels considered as engineered product to replace studs in structural wall framing	No.			

2013-085	#2-21	All insulation used in home is certified by a third-party to contain a minimum recycled content: 25% (1 point) or 50% (2 points).	17-Oct-13	The home has EPS type 2 inside the walls, and Geo-foam under slabs and footing. Roof insulation is spray foam and fiberglass batt hybrid(non vented cathedral style). Do I need to check EPS, Sprayfoam and batts for this?	Yes.			
2013-086	#2-30	Local natural stone or recycled content (30% of content) solid countertops for all kitchen counters (2 points), all other counter tops (1 point).	17-Oct-13	Kitchen and 1 vanity used quartz caesarstone. 2 counters use concrete countertops cast on site. Do I get any points at all here?	If documentation can be provided by the vendor to demonstrate that the countertop content is recycled or natural, then yes. Please provide manufacturer documentation.			
2013-087	#2-33	Interior doors with a minimum of 15% recycled and/or recovered content.	17-Oct-13	Does reclaimed wood from the trees cut down in the site count?	No, but please refer to item 7-1 instead. Trees re-used from the site to build interior doors will qualify for 1 point under item 7-1.			
2013-088	#2-37	Minimum 25% recycled or reclaimed exterior cladding material for 1/3 of exterior (1 point), or >2/3 of exterior (2 points), or >90% of the exterior (for 3 points).	17-Oct-13	The wall system has a 2" layer acting as cladding and concrete we used has more than 25 % recycled/ reclaimed material. And this is for 100% of exterior. Points in this section for us?	Yes.			
2013-089	#2-38	Recycled and/or recovered-content fascia and soffit (minimum 50% pre- or post-consumer) (1 point for each).	17-Oct-13	All soffit and fascia wood is reclaimed form the site trees. Points?	Yes.			
2013-090	#2-40	MDF and/or finger jointed casing and baseboard used throughout home (1 point), and all jambs (1 point)	17-Oct-13	No casing. Baseboards are finger joined. All jambs are reclaimed from site trees. Points?	Yes.			
2013-091	#2-47	All exterior doors and windows manufactured from fiberglass (1 point for windows, 1 point for doors, 2 points for both).	17-Oct-13	Euroline windows call it hybrid fiberglass extrusions, made of fiberglass mainly and use of uPVC at places where a weld is required for sealing.	No. There are several reasons why uPVC is not preferred: this item seeks to award 100% pure fibreglass.			
2013-092	#2-48	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 >90% (for 4 points).	17-Oct-13	Concrete wall system has fiber admixtures in it. Will it be accepted as fiber cement siding?	No, but it will be accepted as equivalent to cementitious stone/stucco/brick.			

2013-093	#2-51	All exterior trim is clad with pre-finished metal (1 point over wood backings, 2 points without wood backings).	17-Oct-13	Trims eliminated with engineered concrete walls. Any points here?	Maybe: the intent of this action item is to ensure a durable exterior trim solution. Please explain how your proposed solution is durable. Photos would be helpful with your explanation.			
2013-094	#3-4	Install HEPA filtration system in conjunction with an HVAC system.	17-Oct-13	HRV installed. Client wants to use portable hepa indoor filter but this efficient HRV does not call for separate systems. Does portable air filters count?	No.			
2013-095	#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 VOC's)	17-Oct-13	Low voc paint used on baseboards, all millwork including doors, casings and jambs are reclaimed wood from trees on site and sealed with boiled linseed oil. Any points in this section?	Paints not based on water will be treated the same as those based on water (ie: "Water-based ... or paints..."): Check the VOC content for the proposed paints (refer to their MSDS sheets, or ask the supplier): if less than 200g/L VOC, then you earn this point.			
2013-096	#4-1	All ductwork joints and penetrations sealed with low toxic mastic or aerosolized sealant system.	17-Oct-13	All hrv ducting are jointless flexible ducts homerun to the hrv unit. Just the dryer vent is metal and it is sealed as required. Take points here?	All joints must be sealed. Where joints do not exist, sealant is not required. If all joints are sealed, then yes, the point is achieved.			
2013-097	#4-8	All bath fans used throughout home have a noise level of 1 some or less	17-Oct-13	HRV return lines are home run too and Zehnder system uses booster switch for using the hrv as primary exhaust without need for fans.	Yes: this solution achieves the intent of the point.			
2013-098	#5-4	Minimum 35% (1 point), 50% (2 points), 75% (3 points), or 90% (4 points)	17-Oct-13	Whatever minimal waste we had in this project were separated and 90% of the recyclable waste were dropped at north Saanich green waste and recycle facility, and rest at alpine disposal.	If documentation can be provided to demonstrate that a certain level of recycling has been achieved (by whatever means), then the point will be awarded.			
2013-099	#5-5	Use of salvaged materials derived from local sources (1 point for each different product used, to max. of 3).	17-Oct-13	Reclaimed wood from onsite trees count? Treed were taken down only because asked by north Saanich since the site has a fire safety related covenant in the title. Since the treed had to come down anyways, using them to eliminate products and minimize waste should carry weightage everywhere. Are we able to take points here?	This is eligible for points in 7-1 as a locally sourced material, however does not meet the criteria as being salvaged			
2013-100	#6-16	Install on-site black water treatment system or engineered wetland for processing local sewage	17-Oct-13	Sewer treatment plant and an engineered wetland installed. Supplier is wetlands pacific. Full 8 points?	Provide more detail about water treatment plans, and make sure to keep adequate documentation of system for future audit purposes.			
2013-041H	#7-1	Products used for home are manufactured within 800 km (1 point for each 2 products - maximum of 5 points).	17-Oct-13	Cement manufacturing is in Vancouver but all mixing and aggregates are from the island. Engineered truss package is from boise, which is about 1250kms into states. Does millwork done on site count? Countertops , barbeque islands, doors, were all made on site. Do they count?	Refer to Program Guide for building components that are eligible for points.			
2013-101	#7-6	Builder's show homes incorporate permeable landscaping which is water efficient or xeriscaped (50% of lawn 2 points)	17-Oct-13	No show home. Just one home and it has permeable driveway and landscaping. Points here?	No points are awarded for 7-6 in this case, however points may be awarded in 6-11			

2013-102	#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%).	17-Oct-13	As a custom builder, we build about one home a year and have completed few projects under green built before. This project at ain road is the only project for 2013 and the next project starts next month which is again a green built home. Considered as 100%? How does this section work?	If 100% of homes are labeled, even if a builder is only building one, then full points are awarded.			
2013-103	Section I	Envelope & Energy Systems	08-Nov-13	We are working on a Built Green Project that has been required by the Municipal Authority to meet ASHRAE 90.1 2010. I am wondering if by showing an x% improvement over ASHRAE 2010 could we assume an additional y% improvement over ASHRAE 90.1-2007 for energy purposes. That is only have to generate one energy model for the project to prove savings of x% beyond ASHRAE 2010 and not have to create two energy models. I have attached a Curt Hepting analysis on ASHRAE 2004 vs ASHRAE 2010 for your reference, I have yet to find a 2007 vs 2010 model which would be most helpful, it seems ASHRAE 90.1 2010 will be approximately 10% more stringent from Heptings report, therefore proving 20% better than ASHRAE 2010 would also prove 30% better than ASHRAE 2007, BG Gold requirement. The Province of BC new energy requirement for Part 3 buildings is ASHRAE 2010 (see link), so I am wondering how this will work moving forward with Built Green projects. (http://www.boabc.org/assets/Latest-News/Information%20Bulletin%20-%20New%20Energy%20Requirements%20-%202013.pdf). Refer to attachment, "Summary Review of Energy Performance Code". Curtis Dorosh	For clarity, the question is understood to be asking whether they can get a ruling from Built Green Canada that accepts an ASHRAE 90.1-2010 model as being a fixed % better than an ASHRAE 90.1-2007 model. Built Green Canada is not comfortable making such an assertion. If the project proponent is able to demonstrate the energy gains of the 2010 model over 2007 without performing another full energy model, and to get a formal signoff from a P.Eng. or other suitably qualified professional, then this will be considered on merit.	Denied	41233	
2014-104	2-35	2-35: Exterior window frames contain a minimum of 10% recycled content (1 point).	13-Feb-14	Our wood is not certified sustainably harvested. The PVC for the window frames can occasionally have a portion of pre-consumer recycled material but it depends on the die and whether or not the extruder is able to mix in the regrind and still get a quality product. Is the percentage recycled content calculated by value or by mass? By volume?				
2014-105	2-21	2-21 All insulation used in home is certified by a third-party to contain a minimum recycled content: 25% (1 point) or 50% (2 points).	13-Mar-14	I'm wondering if 2-21 might have a "wherever possible" caveat to it. It does say "All insulation", but if it's meant to include spray foam and rigid foam board products I don't believe there are any readily available options on the market which comply with either 25% or 50% recycled content. We are dealing with houses where fiberglass batts will be used in the walls, blown-in fiberglass will be used in the attic, and a small amount of spray foam will be used in joist headers and exposed floors. The spray foam might account for 5% of the total amount of insulation used. But if there is no available option for getting spray foam with 25% recycled content and if "all insulation" does indeed mean all types of insulation used throughout the house, then the builder cannot get any points for 2-21 even if 95% of the insulation were say fiberglass with 50%+ recycled content. Can we get a "ruling" on if "all" does indeed mean "all"?	This will be approved so long as the builder ensures 95% of the insulation honours the intent of the item around recycled content.	Approved	19-Mar-14	Suggest this be considered for text updates to clarify intent for 2015 checklist.
2014-106	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 points).	24-Nov-14	What would be the definition of "recycling" in item 5-2? Einar	This is defined as "diverted for reuse" using a company to recycle said materials for a minimum of 25%.			

2014-107	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)	24-Nov-14	Can a builder get points in both item 5-2 and 5-4 if he "recycles" enough of the material he "diverts from the waste stream"? Einar	Yes, 5.2 is about the implementation of a recycling program (minimum of 25%) and 5.4 is based on quantity of materials over and above the 25% threshold. The amount would need to be provable with back-up documentation.			
2014-108	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.	23-Dec-14	Would you please clarify wording "26 L" compost bin in or near kitchen. This is extremely large for indoors. Most indoor kitchen compost containers are from 1.5 to 2 gal. I do believe a bin of this size should be OUTSIDE ONLY to eliminate any hazard due to potential of offgassing of the biodegradable matter within the house. The majority of kitchen compost containers are approximately 2.5 litres and are emptied frequently to a larger outdoor compost bin. This is where wording needs to be more concise and simple. Can you not simply state x number of points for 2-3 litre interior kitchen compost bin and x number of points for 25 litre or higher exterior compost bin. Seems quite simple and not confusing. Gael Cooper	A 26L bin for compost in the back yard, side of the house, garage or what have you will be acceptable (or complies with local recycling programs). Regarding the recycling aspect of this point, there needs to be a permanent system for the bin. As an example of an optional waste centre with compost bins: B24SWC / Richelieu 361460100. This includes 2 -35 litre grey plastic waste bins, 2 - 8.5L compost bins with lids.			
2014-109	Energy	In-floor Radiant Heat	30-Dec-14	We have constructed a single floor home with in-floor radiant heat in concrete (no basement or crawlspace) and a ductless mini split air conditioner/heat pump system. There is an HRV so there is minimal ductwork from bath fans as well as dryer and range hood venting. There is no carpet, just hardwood and tile. Having carpet can get you up to 5 points, not having it gets 2. It has drywall return so there is no trim around the doors or windows but I was able to take some points for the baseboard. This setup gets few points since there is no furnace.	It appears there would be quite a few points for this (5 for the air source heat pump, 1-3 for the HRV, plus many for the woods and coatings).			
2014-110	Energy	Insulation	30-Dec-14	We also upgraded the home to 2x8 plates with 2x4 offset studs to allow for extra insulation. More and more of our clients are requesting this option now. Can you tell me where I can take points for this upgrade.	Excellent. These would come from the Energy section. Under the various insulation items.			
2014-111	Building Materials	Countertops	30-Dec-14	Things like solid countertops no longer get points unless is from local sources or recycled in some way. Caesarstone doesn't appear to qualify unless I can take the points for it being supplied locally.	This isn't a recent change to the checklist. Saying that, we would look at the content and see if it were made up of mostly recycled or recovered content.			
2014-112	Building Materials	Window and Exterior Door Requirement	30-Dec-14	In BC with the new window & exterior door requirements in the Building Code most are now vinyl. Are there points here?	For this, we would ask the same question as above; specifically, what the contents are.			
2014-113	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 (1 pt.).		Can you give me an example of a product that qualifies for 3.26 that absorbs VOC emissions. It mentions drywall but all houses these days have drywall don't they?	Yes, please check this one out: http://www.builtgreencanada.ca/certainiteed-gypsum-insulation			

2015-114	2.1.13	Reduce dimensional lumber use by using engineered product for all load bearing beams and columns from third-party certified sustainable sources.	09-Jan-15	Are the load bearing beams and columns in the interior of the home the only beams and columns that should be considered for these points? Walkout deck columns and front porch roof columns are also load bearing, but they are decorative features only, not a structural component of the home. Does having these items in our elevations mean the points are lost for the engineered products that are being used in the home? Gael Cooper	We will clarify here that this point is for "within the building enclosure".			
2015-115	3.3	No combustion-based fireplaces are provided or all gas fireplaces are sealed and have electronic ignition.	09-Jan-15	Does not installing a fireplace qualify as 'no combustion based fireplaces are provided'? Not having a fireplace seems to be the ideal solution since no fuel is being consumed. Gael Cooper	Yes, that is correct.			
2015-116	3.12-3.13	Low formaldehyde MDF or zero formaldehyde MDF used for cabinets/shelving.	09-Jan-15	Why are these points limited to cabinets and shelving only? MDF is used in the home for several other items (ie stubwall capping, baseboards and casings) which can add up to a lot of MDF in a home. Gael Cooper	There is another point that pertains to casing and baseboard (2.2.18), which is here: MDF and/or finger-jointed casing and baseboard used throughout home (1 point), and in all jambs (1 point). I also wanted to clarify your focus is addressed in 2.2.18 as the Indoor Air Quality section looks at low formaldehyde.			
2015-117	4.3.2	Kitchen Range Hood is ENERGY STAR certified and has a CFM rating of less than 300.	09-Jan-15	Our standard spec is an OTR not a range hood, but it is used as a hood fan, meeting building code, and has a CFM rating of less than 300 CFM. OTRs cannot be ENERGY STAR certified (as confirmed by our supplier), so perhaps this item should be revised to read 'Kitchen Range Hood is ENERGY STAR certified and has CFM rating of less than 300 OR OTR has CFM rating of less than 300 CFM'. Gael Cooper	The Technical Standards Committee did not want to change this. A 300 CFM is the cut-off from Natural Resources Canada and is basic building science—it is nothing over and above building code from an energy efficiency perspective.			
2015-118	7.15.2	Builder's site superintendent has successfully taken and maintained Built Green Training (1 point) and/or Building Science Training, or related formal schooling (additional 2 points. Built Green training must be updated every 2 year).	09-Jan-15	Why are points given for site superintendents only? Sales staff, estimators, purchasers, product development are all departments that also have a significant impact on the design, construction and selling of the home and should qualify for these points as well. Gael Cooper	There is another checklist point related to training (7.15.1), which accommodates others in the organization that you have cited. Here it is: 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 updates every two years (1 point per trade organization—maximum 5).			
2015-119	Energy & Envelope	Energy Star Washer & Dryer	19-Jan-15	We can earn a number of points for providing an Energy Star, front-loading washer and dryer. The washer and dryer are usually selected after possession, but if we inform the customers that their selection must meet the Built Green criteria, are we eligible for these points? Or do we need to purchase and install the washer and dryer to fulfill these requirements?	if the customer is supplying their own appliances after possession, we would accept an invoice from a legitimate supplier as confirmation and points would then be achieved.			
2015-120	6.10	Provide a list of drought tolerant plants and a copy of the local municipality water usage guide to the homebuyers with closing package (1 pt.).	21-Jan-15	I'm working on a rental building. Can the client use this item if they have chosen a list of drought tolerant plants even though there won't be homebuyers?	If it was provided to the building owner/manager (or whoever manages the landscape), that would be the equivalent to providing it to the homeowners in a rental scenario.			

2015-121	1.1.14	Attached garage is fully insulated, has no provision for future heating, and overhead door is insulated to minimum R8 (1 point).	23-Feb-15	On the 2015 checklist, item 1.1.14 gives a point for the attached garage being fully insulated and an overhead door insulated to a minimum R8. For our laned homes, we do not provide an attached garage, so are we not eligible for this point? Or, is it like the fireplace point in that since it is more energy efficient to not build a garage at all, we can still claim this point on our laned homes? If you wouldn't mind clarifying for us, that would be great.	The answer is no, a point cannot be claimed on this; however, included are some of the responses from TSC to hopefully shed some further light on intent and where they're coming from. - I don't think they should receive the point for not having a garage at all; unlike in LEED where the absence of a garage is awarded strictly for the purposes of indoor air quality credit, in this instance points are being awarded strictly for increased energy performance. It can be argued that having a garage is more energy efficient (extra storage space without the need for space conditioning, buffers the temperature gradient to adjacent floors and walls), than not having a garage, so my feeling is that this Action Item is not eligible for projects without garages. - As there is no garage, therefore no garage door, and therefore no points—there are plenty to choose from. - I don't see a point here. Not every project is eligible for every point, if a building does not have an attached garage, then this point cannot be pursued.			
2015-122	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).	23-Feb-15	Could we use rigid foam insulation, put it in between the rim joist area to fit loosely, then use hand spray foam to seal around the edges, and get these checklist points? The CEA says this will provide all the insulation value they need, and do a better job at air sealing, though it's not all spray foam, as specified in the checklist point. It sounds like the hang up is that the checklist point is currently specific to spray foam, but the insulation is just as good and to note this is in British Columbia.	Yes, if it is shown to be equivalent to spray. To note, rigid foam board with appropriate sealing around the edges can excellent strategy; it's more time intensive than spraying the foam, but the materials are cheaper. I would say it definitely trumps stapling poly over fiberglass batt.			
2015-123	1.4.1	Home is built "solar ready", following the guidelines from either Natural Resources Canada (NRCan) or the Canadian Solar Industries Association (CanSIA) (3 points).	25-Feb-15	According to the requirements we are no longer eligible for the Solar Ready point because we do not have 120 sqft of clearance on all of our roof plans. I believe some still meet this requirement, but with some of the developer's requirements for slopes, decorative features, etc., it is not always possible. That being said, we still want solar to be an option for our customers, so we are going to continue to install the conduit, the RI in the mechanical room, and load the trusses to prepare for additional weight. The clearance may impact how many panels they can put up, but in most instances, the clearance is close enough to 120sqft that they still could have some sort of smaller system installed. Would just having the conduit and hookup make us eligible for any points? The house is still technically "solar ready" just not enough space for the system that CANSIA specifies.				
2015-124	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).	06-Aug-15	The section is 1.2.1.b which requires zoning separate systems through separate programmable thermostats. We have a single dwelling with two furnaces. Each furnace would have its own programmable thermostat and would serve different floors. My understanding is that this would qualify for two points, but it was brought up by the developer that they didn't think it would count. Can you confirm that we would be eligible for two points, please? Reinbold Engineering Group	Yes, this would be eligible for two points.			
2015-125	6.7	Install water-saving dishwasher that uses less than 20.0 L/water per load.	25-Aug-15	The guide says "...use as little as 3.9 gallons per cycle at the economy setting." 3.9 gallons (imperial) = 17.7 liters. On the light setting your dishwashers run at 17 liters which is less than the 20 liters stated in the checklist and also less than what the guide states for the most efficient dishwashers. The question is can we say that the light setting is an economy setting?	Yes, this will be accepted.			

2015-126	1.2 / 1.4	Mechanical Systems / On-Site Energy Generation	22-Dec-15	Has there been any discussion as to how to classify geothermal (or ground source) systems? It is currently listed under Mechanical Systems, but perhaps fits better under On-Site Energy Generation. Also, I would like to get more insight on how the number of points get awarded.	This is not included under On-Site Energy Generation because it is using a heat exchange. Regarding points, these are already awarded in energy modelling and are determined based on environmental merit. Geothermal can be very efficient, but is dependent on location. For example, in Alberta it is carbon intensive. On individual projects, if there is compelling evidence, we encourage folks to follow-up as these will be reviewed on a case-by-case basis and points awarded accordingly. Should a third-party, independent study be conducted, TSC will review this again.			
2015-127	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).	31-Dec-15	This project will have siding that is at least 75 percent of acrylic stucco, and knowing this material is maintenance free and very resilient, I have not seen any point for this, other than cementuous stucco. Should I apply full points on stucco at 2.3.5?	This is under the Durable Construction category. Acrylic is not an equivalent product for this checklist item. It is not a natural product; however, if you're able to show the acrylic product you're using has a similar fire rating & warranty (as those products referenced in the checklist item above) then this would be accepted.			
2016-128	1.1.7	Install additional exterior insulations system on exterior of foundation, R Value of 7.5 (1 point), R10 (2 points), or R15 (3 points), above code required interior insulation level.	15-Mar-16	We're putting 2" SM R-10 insulation on interior of our slab on grade foundations before backfill, this is above code! Do we get the 2 points? It states on exterior of foundation. We find there's too much damage and hard to finish if it's a little above grade when put on exterior of walls.	An interior detail, it does exceed code; however, it does nothing to benefit the intent of the exterior clad unsulation, which is thermal bridging of exterior conditions towards the interior. In this scenario, no points are awarded since the action item is intended to award exterior insulation of foundation walls. Certainly in favour of the detail, nevertheless.			
2016-129	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).	20-Apr-16	I am a Certified Energy Advisor based in BC. I notice that the current checklist is still using the obsolete A, B, C, D ENERGY STAR ratings for windows. Have you plans to update this in the current 1, 2, 3 qualifications? Nick	Yes, we will update for our 2017 checklists and in the interim, Zone A = Zone 1, Zone B = Zone 2, and Zone C – Zone 3.			
2016-130	1.1.17	Install doors that are minimum R6, and any doors with glass (including french or sliding doors) that are minimum	See above	See above.	As above.			
2016-131	1.1.5 / 1.1.7 / 1.1.8?	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). 1.1.7: Install	05-May-16	I am wondering if points for insulated footings can be given under checklist items 1.1.5, 1.1.7, or 1.1.8 or would there be consideration to expand on one of these to accommodate or create a new checklist item for this?	This was discussed and under normal construction, TSC cannot see how this would affect energy in a way that would translate into significant energy savings. However, if there is some construction system that we don't understand, it should be captured in the energy model. We would welcome more information on this and are keen to learn more.			
2016-132	1.1.16	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	05-May-16	Regarding window, the glazing checklist items currently identify with the ENERGY STAR rating scale. I am more familiar with U-values and solar heat gain coefficient numbers (SHGC) as a guide to window selection. And so, if the glazing used is more than double efficiency of ES values, could I take double the points for this checklist item or, how can this be accounted for? Would you consider U-values / SHGC numbers added into an existing checklist item for additional points?	ENERGY STAR (ES) labels come with U-values; therefore, please refer to the requirements of the climate zones. If the window type is not available under ENERGY STAR and it can be shown to meet the equivalent of ES, it will be accepted.			

2016-133	3.22 / 3.23	3.22: Carpet and Rug Institute (CRI) IAQ label on all carpet used in home. 3.23: Carpet and Rug Institute (CRI) IAQ label on all underlay used in home.	05-May-16	I am wondering about the way BG recognizes environmental testing, specifically about accepting GUT testing OR CRI testing. I note BG accepts CRI and am wondering if GUT is accepted? For example, carpet and underlay are things being tested/labelled. GUT has become more stringent than CRI. CRI = The Carpet and Rug Institute www.carpet-rug.org GUT = GUT test system for VOC-emissions and chemicals: www.pro-dis.info/gut.html	Yes, GUT will be recognized.			
2016-134	2.2.11	Insulation used in walls, roofs, and exposed floors is certified to contain a minimum of 25% recycled content.	19-Aug-16	There are several types of insulation being used in the construction assemblies. Some, but not all have recycled content. For eg. Rigid insulation, used in exterior applications, is all new material. 1. Is this credit still valid when most of the insulation (the batt filling all of the exterior framed walls + some inside walls for acoustic purposes) has 25% recycled content, or does the No recycled content in the rigid exterior portion make this point unattainable? 2. I have seen some rigid insulation from Owen's Corning up to 20% recycled content. Do you know of any rigid products that would achieve the minimum of 25%? If not, would the points be granted if all fibreglass batt applications have recycled content? Emma	1. If all insulation in the project achieves 25% recycled content overall, the intent is met. Some types of insulation could contain zero recycled content provided other insulation types have >25% to compensate. 2a. Semi-rigid from roxul can contain up to 93% recycled content. 2b. If the fibreglass batts are >25% recycled content the points may be achievable. Could be documented via cost, volume or weight.			
2016-135	3.2.6	Insulation used is Zero Formaldehyde Insulation	19-Aug-16	1. Again, are these points still attainable if most insulation is Formaldehyde Free, BUT there is some insulation with small amount of Formaldehyde, such as mineral wool? 2a. Again, are these points still attainable if most insulation is Formaldehyde Free, BUT there is some insulation with small amount of Formaldehyde, such as mineral wool? 2b. Could insulation on the exterior have some formaldehyde content as it would not be effecting the interior air quality? Emma	1. No. The intent is to prevent introduction of formaldehyde into the building, and drive the market for safer alternatives. 2a. We believe this could be considered if outside of a continuous air/vapour barrier membrane (e.g. peel and stick, or sprayed a/v barrier). 2b. Could be considered if outside of a continuous air/vapour barrier membrane. Insulation installed between wall studs would not comply if it contains formaldehyde.			
2016-136	1.4.3	Install photovoltaic electrical generation system, sized for 30% of electric load (5 points), 50% (6 points), or 80% (8 points).	23-Aug-16	Do 'Built Green' homes include safety features such as fire suppression sprinklers?	Fire suppression sprinklers are great, though not within the scope of environmental stewardship and sustainability (Built Green Canada's focus), rather they fall into the category of life and safety. Fire protection is regulated in provincial building code.			