



Whistler Green: Project Checklist

(Detached and duplex dwellings)

Whistler Green is our community standard for healthy homes that use energy and resources efficiently in a mountain setting. Considered early in the home planning and design process, many of the measures in this checklist are easily incorporated and cost no more than conventional practices. Benefits include reduced energy and maintenance costs, and a more comfortable home.

If you require more information to determine whether your plans meet the standard, or how many points would be awarded for credit, refer to the Whistler Green [Program Guide](#), speak with an RMOW Community Planning staff member, or consult an architect or builder.

Tag	Title	Definition and Target	Max pts	Points
Site and Landscape (SL)				
SL1	Trees	Protect all mature and unique trees and shrubs not immediately affected by the building footprint or to be removed for solar access or safety reasons.		
SL2	Soils	Protect, save and reuse existing topsoils. Follow Metro Vancouver or equivalent guidelines for erosion and sediment control.		
SL3	Stormwater	Mimic natural or pre-development hydrology by absorbing stormwater on the site. Target 90% effective impermeability and/or no new flow to storm drains.	Required	
SL4	Landscape Plants	Use only regionally appropriate trees, plants and shrubs for landscaping; refer to "Plant Materials Suitable for the Whistler Climate".		
SL5	Outdoor Lighting	Minimize light pollution by using only full cut-off fixtures for outdoor lights (no more than 10% of lamp lumens between 80 - 90 degrees of nadir).		
SL6	Site Selection	Build on a previously disturbed site (1 point); no utility or road extensions required (1 point); 30-minute year round bus service and neighbourhood retail within 500m of site centre (1 point).	3	
SL7	Compact Footprint	The footprint of all buildings, deck and porches is less than 150 m ² (1 point); less than 100 m ² (2 points).	2	
SL8	Solar Access	Sunlight strikes one or more walls of principal rooms at window sill height for 3 hours (1 point); or 5 hours (2 points). Measured on November 7th.	2	
SL9	Habitat	Protect natural habitat beyond the building footprint. Restore disturbed areas to provide food, water and shelter suitable for desirable local fauna.	1	
SL10	Restoration	Restore to native habitat value a previously disturbed site that is equal in area to the footprint of all buildings and hard surfaces.	1	
SL11	Fill	The total volume of soils exported and imported during excavation and grading is less than the building foundation area multiplied by 1 cubic metre.	1	
SL12	Green Roof	60% or more of roof area is vegetated (2 points), or structure, membrane and drainage are designed to accommodate future planting (1 point).	2	
<i>SL Total</i>			8	0

Energy (E)

E1	Energuide	The home is certified Energuide 78		
E2	Fuel Heaters	Gas fireplaces have electronic ignition (no pilot flame) and solid fuel devices comply with applicable CSA or EPA standards.		
E3	Furnace and Boiler	Use Energy Star certified products for fuel fired space heating and hot water.		
E4	Hot Tub	Hot tubs incorporate at least heater and pumping efficiency measures, or advanced features such as indoor water storage.	Required	
E5	Air Conditioning	Any independent air conditioning system is high-efficiency (COP >3).		
E6	Lighting	Use lighting fixtures with energy efficient lamps for at least 40% of permanent lighting (nominal rating > 35 lumens/watt).		
E7	Space Heating	Primary space heating uses forced air or low temperature liquid (<55 C). Electric resistance heating is no more than 700W for the home.		
E9	Enhanced Performance	Energuide Rating: 79 (1 point); 80 (2 pts); 81 (3 pts); 82 (4 pts); 83 (5 pts)		5
E10	Passive Solar Heating	Use building orientation, window design and thermal mass to achieve passive solar heating. Calculate usable solar gains fraction: >15% (1 point); >25% (2 points); >35% (3 points); >45% (4 points).		4
E11	Passive Cooling	Occupied rooms with one outside wall have operable windows equal to at least 4% of floor area; occupied rooms with two or more outside walls have operable windows equal to at least 2.5% of floor area.		1
E12	Solar Thermal	Designate south-facing roof and wall areas for solar devices and install conduit and pipe connections (1 point); solar devices provide >20% of space heating (1 point), >40% of water heating (1 point).		3
E13	Heat Pump Performance	Verify heat pump efficiency for space and water heating: COP > 2.8 (1 point); COP > 3.0 (2 points); COP > 3.4 (3 points); COP > 3.8 (4 points).		4
E15	Greywater Heat	Install an approved greywater heat recovery unit.		1
E16	Outdoor Lighting	Except as required for safety and security, control all outdoor lights with motion detectors.		1
E17	Renewable Electricity	Install systems that produce electricity from renewable sources (3 points per kWh of installed capacity).		6
	<i>Subtotal</i>			0
E19	Home Size	Enter a home size multiplier from the table in Appendix A.		
<i>E Total</i>			15	0

Water (Wa)

Wa 1	Water Appliances	Provide only Energy Star certified products for water-consuming appliances.		
Wa 2	Irrigation	Design any installed irrigation system to reduce potable water use by 50% compared to conventional systems.	Required	
Wa 3	Landscape Mulch	Cover soil in all landscape planting areas with a mulch layer.		
Wa 4	Advanced Irrigation	Install rainwater/snowmelt collection equipment (1 point); no irrigation system, or irrigation system requires no potable water (1 point).	2	
Wa 5	Water Fixtures	All water fixtures meet the following flow rates: faucets < 6.5 L/minute at 415 kPa (1 point); showerheads < 7.5L/minute at 550kPa (1 point)	2	
Wa 6	Greywater Reuse	Separate toilet and kitchen sink drains from all other drains to point of exit (1 point); install an approved greywater reuse system (2 points).	3	
Wa 7	Dual Flush Toilets	At least 2 toilets are dual flush, maximum 6L per flush (1 point); all toilets are dual flush, maximum 6L per flush (2 points).	2	
<i>Wa Total</i>			6	0

Indoor Environment (IE)

Ie 1	Safe Liquid Materials	Paints and coatings meet GreenSeal VOC requirements; adhesives and sealants meet South Coast Air Quality Management District standards.		
Ie 2	Safe Solid Materials	Floor coverings meet CRI-Green Label standards; interior panel products contain no added urea formaldehyde.	Required	
Ie 3	Air Filters	All furnace and ventilation air filters are rated minimum MERV 4.		
Ie 4	Flush Out	Maximum ventilation operates for 7 days after final painting and finishing, prior to occupancy.		
Ie 5	Ventilation	Install an HRV/ERV with supply ducted to all occupied rooms and exhaust from all wet rooms.	2	
Ie 6	Isolate Garage	Fit attached garages with a carbon monoxide alarm, and an exhaust fan capable of maintaining a 10 Pa pressure difference from the home with doors closed.	1	
Ie 7	Advanced Air Filtration	All furnace and ventilation air filters are rated minimum MERV 6.	1	
Ie 8	Healthy Flooring	Hard surface or resilient flooring covers 50% (1 point) or 75% (2 points) of the livable net floor area (does not include unfinished basements and garages).	2	
<i>Ie Total</i>			5	0

Materials (Ma)

Ma 1	Resource Efficient	Use engineered structural materials for two major applications (each application covers >10% of floor area, or >3% of total material costs).		
Ma 2	Recycled Content	Two materials (each covers a main surface, >10% of floor area, or >3% of material costs excluding plumbing and wiring) are certified for recycled content.		Required
Ma 3	Framing	Employ at least 3 advanced framing methods described in the CHBA builders manual, to reduce unnecessary lumber and sheathing.		
Ma 4	Reused Materials	1 point for each major building element made from >50% salvaged material, or for each 3% of new material costs substituted by salvaged materials.	3	
Ma 5	Reuse Building	Use foundation, floor and >50% of walls from existing buildings for >20% (1 point), >40% (2 points), or >60% (3 points) of the new project's floor area.	3	
Ma 6	Building Disassembly	Deconstruct >50% (1 point) or >75% (2 points) of existing buildings for material salvage.	2	
Ma 7	Advanced Recycled	Four materials (each covers a main surface, >10% of floor area, or >3% of material costs excluding plumbing and wiring) are certified for recycled content.	1	
Ma 8	Durable Materials	1 point for each of the following warranty requirements: roofing >35 years; majority of cladding >40 years; >30% of floor area material >10 years.	3	
Ma 9	Renewable Content	Use one major material made from plant fibre with less than 10 year rotation (e.g. straw, bamboo, cotton).	1	
Ma 10	Locally Sourced	Use 5 major materials (e.g. exterior walls or floors, windows, doors) and/or systems (e.g. insulated panels, lighting, heating) produced in BC.	1	
Ma 11	Fire Resistant	Roofing is Class A, non-combustible (1 point); cladding is BC Fire smart rated not greater than +1 (1 point).	2	
Ma 12	FlexHousing	Incorporate specific features to create adaptable, expandable and accessible homes. 3 features (1 point); 5 features (2 points).	2	
Ma 13	Certified Wood	Use certified sustainably harvested wood for one major structural or finishing application (e.g. framing, plywood, floors).	1	
	<i>Subtotal</i>			0
Ma 15	Home Size	Enter a home size multiplier from the table in Appendix A.		
<i>Ma Total</i>			10	0

Waste (Ws)

Ws 1	Recyclables Collection	Provide a recycling area no less than 0.3 m ³ located in or adjacent to the kitchen and equipped with at least 3 collection bins.	Required
Ws 2	Ozone Protection	Where a cooling system or heat pump is used, refrigerants must be chlorine free, with zero ozone depletion potential (R410 or R407 refrigerants comply).	
Ws 4	Hazardous Spills	Adopt a hazardous spills cleanup plan to BC MWLAP standards, or follow an environmental management system that complies with ISO 14000.	1
Ws 5	Construction Waste	Submit receipts indicating recycling of construction waste by volume: >50% (1 point); >65% (2 points); >80% (3 points).	3
Ws 6	Organics	Provide bear-proof household composting (2 points), or an in-sink disposal system (garburetor) (1 point) for organic waste.	2
<i>Ws Total</i>			4 0

Owner and Public Education (OE)

OE 1	Owner's Manual	Provide a comprehensive owner's manual including: a product list, maintenance and warranty information, Whistler It's Our Nature household toolkit, and waterwise gardening information.	Required
OE 2	Open House	Offer and advertise an open house with educational tours and literature on green features, for at least 2 weekend days and 3 evenings.	1
OE 3	Controls and Monitoring	Install a system of home controls and monitoring that, at minimum, manages energy use and provides feedback to occupants.	2
<i>OE Total</i>			2 0

Innovation (In)

In 1	Innovation	Any innovative feature(s) or system(s) to reduce the environmental impact of site works, construction and operation of the home.	5
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WHISTLER GREEN TOTAL	50 0
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Whistler Green ADOPTER	25 points
Whistler Green ACHIEVER	35 points
Whistler Green INNOVATOR	40 points

Whistler Green is a new initiative. If you have suggestions to improve its content, format or application, please contact the RMOW Community Planning Department on 604 935 8170.

Thank you for completing the checklist.

Appendix A - Home Size Multiplier

Calculate gross inhabited floor area from building permit drawings, not including self-contained suites with full kitchen and private entrance. Apply a multiplier to the point subtotals for Energy, and for Materials, as follows:

Unit Type	Base Size
Studio	550
1 bedroom	650
2 bedroom	1000
3 bedroom	1400
4+ bedroom	1900

% of base size	Multiplier
<70	1.4
<80	1.25
<90	1.1
<100	1
<125	0.9
<150	0.8
<175	0.7
<200	0.6
<250	0.5
>250	0.3