



Multi-Family Residential New Construction Certification Checklist

Please indicate:

- Preliminary checklist (for enrollment)
- Final checklist (for certification review)

Project Address

Company Name

Check items you will be including in this project to qualify for a BUILT GREEN® star rating. Version 2009

Action Item Number	Possible Points	CREDITS	Total Points	Comments
WO-STAR REQUIREMENTS (200 points minimum)				
	required	Program Orientation (one time only)	★	
	required	Section 1: Build to Program Requirements and Green Codes / Regulations	★	
	required	Achieve 30 points from each section	★	
TREE-STAR REQUIREMENTS (300 points minimum)				
	required	Meet 2-Star requirements	★	
	required	Achieve a minimum of 40 points from each section	★	
FOUR-STAR REQUIREMENTS (400 points minimum)				
	required	Meet 3-Star requirements	★	
	required	3 rd party verification required	★	
Site & Water	required	Amend disturbed soil with compost to a depth of 8 to 10 inches or better than code to restore soil environmental functions (See Action Item 2-17)	★	
Site & Water	required	Landscape with plants appropriate for site topography and soil types, emphasizing use of plants with low watering requirements [drought tolerant] (See Action Item 2-44)	★	
Site & Water	required	Install ALL bathroom faucets with GPM 1.5 or better (See Action Item 2-51)	★	
Site & Water	required	Install ALL showerheads with GPM less than code (See Action Item 2-53)	★	
Energy	required	Building Modeled to have 15% better performance than energy code	★	
Energy	required	Prewire for future PV for all common areas*	★	
IAQ	required	Use only low-VOC /low-toxic interior paints, primers, and finishes for large surface areas (See Action Item 4-31)	★	
IAQ	required	Provide permanently installed track-off mats and/or shoe grates at common entryways to building (See Action Item 4-79)	★	
IAQ	required	Do not install a wood-burning fireplace inside unit or building (See Action Item 4-82)	★	
Materials	required	Practice waste prevention and recycling and buy recycled products (See Action Item 5-1)	★	
Materials	required	Achieve a minimum of 70 points from each section	★	
FIVE-STAR REQUIREMENTS (600 points minimum)				
	required	Meet 4-Star requirements	★	
Site & Water	required	Preserve existing native vegetation as landscaping (See Action Item 2-8)	★	
Site & Water	required	Use pervious materials for at least one-third of total area for hardscapes (See Action Item 2-24)	★	
Energy	required	Alternate: Demonstrate building energy performance 30% beyond code per (See Action Item 3-2)	★	
Energy	required	Install LED, Energy Star® compliant fixtures, or demonstrated energy equivalent in units and in common areas (See Action Item 3-67)	★	
IAQ	required	Use plywood and composites of exterior grade with no added urea formaldehyde (for interior use) (See Action Item 4-18)	★	
Materials	required	Achieve a minimum recycling rate of 90% of waste by weight (See Action Item 5-31 for reference)	★	
Materials	required	Use a minimum of 10 materials with recycled content per unit (See Action Items in Section 5)	★	
Materials	required	Achieve a minimum of 100 points from each section	★	
*exception will be made if PV is installed				
SECTION ONE: BUILD TO PROGRAM REQUIREMENTS AND GREEN CODES/REGULATIONS				
1-1	★	Provide owner with an environmentally friendly operations and maintenance kit		
1-2	★	Take extra precautions to not dispose of topsoil in lowlands or wetlands	★	
1-3	★	When construction is complete, leave no part of the disturbed site uncovered or unstabilized	★	
1-4	★	Prepare jobsite recycling plan and post on site	★	
1-5	★	If using can lights, use Energy Star® can lights or can lights approved by Washington Energy Code for all can light applications	★	
1-6	★	2-4 Star: Install CO detector for all units (hardwired preferred) with a combustion device or attached garage	★	
1-7	★	5 Star: Install CO detector for all units (hardwired required) with a combustion device	★	
1-8	★	Prohibit burying demolition and/or construction waste	★	
1-9	★	Dispose of non-recyclable hazardous waste at legally permitted facilities	★	
1-10	★	Meet all applicable state and local codes, regulations, and development standards	★	
CODES SECTION TOTALS			ALL	

SECTION TWO: SITE AND WATER			
SITE PROTECTION			
Overall			
2-1	10	Build on an infill lot to take advantage of existing infrastructure and reduce development of virgin sites	
2-2	10	Build in a planned Built Green® development	
2-3	20	Build on a previously developed site (greyfield or brownfield)	
2-4	30	Create a Low Impact Development	
2-5	5-50	Meet City of Seattle's Green Factor standards	
2-6	5	For each acre of development, set aside an equal amount of land as a conservation easement or transfer the development rights	
Subtotal			0
Protect Site's Natural Features			
2-7	3	Avoid soil compaction by limiting heavy equipment use to building footprint and construction entrance	
2-8	3	Preserve existing native vegetation as landscaping	
2-9	4	Retain 30% of trees on site or retain arborist to determine tree retention plan for site	
2-10	4	Do not build on or adjacent to sensitive ecological areas: wetlands, shorelines, bluffs, old growth forests, or other critical areas	
2-11	2	If building near sensitive ecological areas, limit development footprint and preserve and protect beyond code	
2-12	5 or 7 or 10	Restore percentage of site outside the footprint for the life of the building -10% - 20% - 35%	
Subtotal			0
Protect Natural Processes On-Site			
2-13	2	Install and maintain temporary erosion control devices that significantly reduce sediment discharge from the site beyond code requirements	
2-14	3	Use compost to stabilize disturbed slopes	
2-15	3	Retain all native topsoil and protect stockpiles from erosion	
2-16	3	Balance cut and fill, while minimizing change to original topography	
2-17	4	Amend disturbed soil with compost to a depth of 8 to 10 inches (or better than code) to restore soil environmental functions	
2-18	2	Replant or donate removed vegetation for immediate reuse	
2-19	2	Use plants salvaged from another site	
2-20	3	Grind land clearing wood and stumps for reuse	
2-21	3	Use a water management system that allows groundwater to recharge	
2-22	10 or 20 or 30	Manage specified percentage of stormwater and building water discharge on site by 60%, 80%, or 100%	
Subtotal			0
Hardscapes			
2-23	5 or 10 or 15	Design to achieve 50%, 75%, or 90% effective pervious surface outside of building footprint	
2-24	3	Use pervious materials for at least one-third of total area for hardscapes	
2-25	10 or 15 or 25	Install vegetated roof system (e.g. eco-roof) to reduce impervious surface on 25%, 50%, or 90%+ of total roof surface	
2-26	1	Integrate landscaping with parking area beyond code	
2-27	3	For an urban infill, replace impervious surfaces with permanent pervious surfaces outside building footprint	
Subtotal			0
Reduce Urban Heat Island Effect			
2-28	7	Install a high albedo or light colored roof	
2-29	7	Provide shading for 30% of hardscapes by using landscape, landscape features, or overhangs	
2-30	7	For all exterior hardscape, including surface parking, use only light colored pavement for 90% of project area	
Subtotal			0
Eliminate Water Pollutants			
2-31	1	Wash out concrete trucks in slab or pavement subbase areas	
2-32	1	Establish and post clean up procedures for spills to prevent illegal discharges	
2-33	1	Reduce hazardous waste through good jobsite housekeeping	
2-34	2	Construct tire wash, establish and post clean up protocol for tire wash	
2-35	2	Use slow-release organic fertilizers to establish vegetation	
2-36	2	Use less toxic form releasers	
2-37	4	Provide an infiltration system for rooftop runoff	
2-38	3	Use non-toxic or low-toxic outdoor materials for landscaping (e.g. plastic, least-toxic treated wood)	
2-39	5	No clearing or grading during wet weather periods	
2-40	25 or 50	On-site wastewater treatment for greywater only or for blackwater and greywater	
Subtotal			0
WATER CONSERVATION			
Outdoor Conservation			
2-41	2	Mulch landscape beds with 2 inches organic mulch	
2-42	1	Use grass type requiring less irrigation and minimal maintenance	
2-43	5	Limit use of turf grass to 25% or less of landscaped area	
2-44	10	No turf grass	
2-45	5	Landscape with plants appropriate for site topography and soil types, emphasizing use of plants with low watering requirements (drought tolerant)	
2-46	5	Install intelligent irrigation system	
2-47	2	Install sub-surface or drip systems for irrigation with timers	
2-48	10	Install landscaping that requires no potable water for irrigation whatsoever after initial establishment period (approximately 2 years)	
2-49	1-15	Install rainwater collection system (cistern) that reduces water consumption for irrigation by 50% annually	
2-50	50	Provide 100% of building and landscaping water use with captured precipitation or reused water purified without the use of chemicals	
Subtotal			0

Indoor Conservation			
2-51	3	Install ALL bathroom faucets with GPM 1.5 or better	
2-52	3	Install motion-sensor for bathroom faucets - one per unit and in all common areas	
2-53	3	Install ALL kitchen faucets with GPM less than code	
2-54	5	Install ALL showerheads with GPM less than code	
2-55	5	Stub-in plumbing to use greywater for toilet flushing	
2-56	20	Use greywater or rainwater for toilet flushing	
2-57	3	Provide water sub-metering for each unit	
2-58	8	Install high efficiency toilets in highest use area and at least one per unit in all units	
2-59	2	Install no-cartridge waterless urinals or 1/8 gallon urinals and high efficiency toilets in all common areas	
2-60	4	Install point-source, on-demand (tankless), or recirculation pump hot water systems (where appropriate)	
Subtotal			0
Eliminate Water Pollutants			
2-61	3	Develop and provide a building-wide food waste disposal strategy	
2-62	1	Do not install garbage disposal	
Subtotal			0
ESIGN ALTERNATIVES			
2-63	10	Follow comprehensive integrated design plan for site and structure (as described in the Handbook)	
2-64	5	Hold design charrette during various stages including pre-design, schematic design, design development, and construction documents	
2-65	5	Provide community common areas accessible to all building occupants	
2-66	2	Take advantage of parking reduction credits that are available in your jurisdiction	
2-67	5 or 10	Provide structured parking within the proposed building footprint at a 50% minimum or 100% with no surface parking	
Subtotal			0
TRANSPORTATION			
2-68	25	Create a transit-oriented development	
2-69	4	Build within ¼ mile of a transit stop or Park and Ride	
2-70	8+	Create a "mixed-use" building	
2-71	2-4	Provide subsidized bus passes	
2-72	2	Provide bicycle lockers or bicycle storage beyond code	
2-73	2	Provide bus shelters	
2-74	5+	Points for B20 biodiesel or better equipment	
2-75	5+	Provide dedicated parking spots for carpool or car-share vehicles	
2-76	1+	Provide a hardwire outlet(s) for electric vehicles	
2-77	2	Provide a link to community trails	
2-78	15	Provide alternative fueling station	
Subtotal			0
RAINING AND EDUCATION			
2-79	2	Prepare an environmentally friendly operations and maintenance plan for common area facilities	
2-80	2	Prepare an environmentally friendly landscape operations and maintenance plan	
2-81	3	Conduct training sessions for maintenance staff and/or occupants	
2-82	5	Provide educational materials designed for the public that highlight the green building features and their performance that are included in the project	
Subtotal			0
XTRA CREDIT / INNOVATION for Site and Water			
2-83	1-10	Extra credit / innovation for Site and Water	
Subtotal			0
SITE & WATER SECTION TOTALS			0
ACTION THREE: ENERGY EFFICIENCY			
3-1	5 or 15	Building systems commissioning beyond code	
Subtotal			0
ENVELOPE			
Thermal Performance			
3-2	10, 20, 30, 40	Document envelope improvements beyond code (component performance approach) by 10%, 20%, 50%, or 75%	
3-3	1-70	Document envelope improvements beyond code minimum (prescriptive approach)	
3-4	50	Build a zero net energy building that draws zero outside power or fuel on a net annual basis	
3-5	5	Use dense packed cellulose (over 2.5 lbs/inch) or wet blown cellulose or blown in foam	
3-6	3	For concrete walls - use perimeter insulation for exterior slab edges	
3-7	6	Increase roof insulation 20% beyond code	
3-8	8	Participate in a program that provides third-party review and inspection	
Subtotal			0
Air Sealing			
3-9	3	Airtight drywall approach for framed structures	
3-10	3	Use airtight building method, such as SIP or ICF	
3-11	3	Eliminate or airtight seal all air pathways between floors and units	
3-12	5 or 10	Conduct blower door test for a sampling of units with results better than 0.30 ACH or 0.25 ACH	
Subtotal			0
Reduce Thermal Bridging			
3-13	1	Use rigid insulation as thermal break in headers	
3-14	1	Fully insulate corners at intersecting exterior walls	
3-15	1	Fully insulate at interior/exterior wall intersection by open cavity framing	
3-16	3	Use energy heels of 6 in. or more on trusses and stick frame roofs to allow added insulation over top plate	
3-17	2	Use insulated exterior sheathing	
3-18	5	Use advanced wall framing - 24-inch OC, with double top plate	
Subtotal			0
Solar Design Features			
3-19	6	Passive solar design, <i>basic</i> features installed	
3-20	12	Passive solar design, <i>advanced</i> features installed	
3-21	5	Model solar design features using approved modeling software	
3-22	2	Use landscaping plans that reduce heating/cooling loads naturally	
Subtotal			0

EATING/COOLING		
Distribution		
3-23	1	Centrally locate heating / cooling system to reduce the size of the distribution system
3-24	3	Install ceiling fans in all units - minimum one per unit
3-25	2	Use advanced sealing of ducts using low-toxic mastic
3-26	10	Third-party performance air leakage test using prescribed sampling method for each unit type meets certification
3-27	5	Third-party duct test results less than 6% loss of floor area to outside/total flow
3-28	2	All ducts are in conditioned space
3-29	4	Locate heating / cooling equipment inside the conditioned space
		Subtotal
		0
Controls		
3-30	1	Install thermostat with on-switch for furnace fan to circulate air
3-31	1	Install thermostat with one degree dead-band (electronic or vapor diaphragm) for non-ducted electric heat
3-32	2	Install 60-minute timers or humidistat for bathroom and laundry room fans
3-33	2	Install programmable thermostats
3-34	1	Provide separate switching for bathrooms fan/heat lamp and fan/light combination fixtures
3-35	3	Provide electricity and/or natural gas direct metering for each unit
3-36	5	Install heat systems with separate zones for sleeping and living areas (not including electric resistance heating)
		Subtotal
		0
Heat Recovery		
3-37	7	Install a heat recovery ventilator or an energy recovery ventilator
		Subtotal
		0
Equipment		
3-38	3	Select high efficiency heat pumps
3-39	3	Select Energy Star® heating / cooling equipment or equivalent
3-40	2	No gas fireplaces, or use direct vent gas or propane hearth product (AFUE rating)
3-41	7	No air conditioner
3-42	5	Direct use of natural gas, i.e., centralized boiler with hydronic heating system units <u>or</u> units with fan coil system that can do both heating and cooling
3-43	10 or 15	Install whole building hydronic heating for heating in all units, point range based on boiler efficiency - 85% or 92%
3-44	10	Install geothermal heat pumps
		Subtotal
		0
WATER HEATING		
Overall		
3-45	5	Install drainwater heat recovery system (DHR)
3-46	2	Install whole building recirculation pump
3-47	2	Passive or on-demand hot water delivery system installed at farthest location from water heater
3-48	2	Install on-demand (tankless) hot water heater
3-49	3	Upgrade electric water efficiency above code
3-50	2 or 4	Upgrade gas or propane water heater efficiency to 0.61 or 0.81
3-51	2	Install the water heater inside the heated space (electric, direct vent, or sealed venting only)
3-52	4	Upgrade electric water heater to an exhaust air heat pump water heater or de-superheater: EF 1.9
3-53	3	Install a timer to regulate standby hot water loss in hot water heater
3-54	3	Ultra high efficiency central water heating
3-55	5	Solar water heating system for common facilities
3-56	5	Install Solar Hot Water Heating
		Subtotal
		0
Distribution		
3-57	2	Locate water heater within 20 pipe feet of highest use
3-58	1	Insulate all hot water pipes and install cold inlet heat traps on hot water heater
		Subtotal
		0
LIGHTING		
Natural Light		
3-59	1	Light-colored interior finishes
3-60	2	Use clerestory for natural lighting
3-61	5	Maximize daylighting for all units
		Subtotal
		0
Efficient Lighting		
3-62	2	Install low-mercury T-8 lamps
3-63	1	Halogen lighting substituted for incandescent downlights
3-64	3	Install lighting dimmer, photo cells, timers, and/or motion detectors (interior) for high efficiency fixtures
3-65	2	Install photo cells, timers, motion detectors (exterior) for 90% of fixtures
3-66	3-5	Install LED or Energy Star® compliant CFL bulbs or demonstrated energy equivalent in all units and common areas.
3-67	1-10	Install LED, Energy Star® compliant fixtures, or demonstrated energy equivalent in all units and common areas
3-68	5	Avoid excessive outdoor light levels while maintaining adequate light for security and safe access, meet IESNA Levels
		Subtotal
		0
APPLIANCES		
3-69	4	Install gas clothes dryer in common laundry or in all units
3-70	2	Install a water-saving, energy-efficient washing machine in all units
3-71	5	Install common laundry facilities instead of in each unit with water-saving, energy-efficient washers
3-72	1	Install a water-saving, energy-efficient dishwasher in all units
3-73	2	Install Energy Star® refrigerator in all units
3-74	2	Install gas stove/cooktop in all units
3-75	2	Install biofuel appliances
3-76	2	Install Energy Star® exhaust fans in all units
		Subtotal
		0

ALTERNATIVE ENERGY BONUS POINTS			
3-77	2-5	Participate in the local utility's electricity program for renewable electricity sources	
3-78	1	Solar-powered or low-voltage walkway or outdoor area lighting	
3-79	10	More than 2% of building powered by photovoltaic	
3-80	5-25	Install photovoltaic system, minimum 1 kW	
3-81	5 or 10 or 25	Install innovative non-solar renewable power systems that produce a minimum of 15%, 30%, or 50% of the common area's total annual energy	
Subtotal			0
EXTRA CREDIT / INNOVATION for Energy Efficiency			
3-82	1--10	Extra credit / innovation for Energy Efficiency	
Subtotal			0
ENERGY EFFICIENCY SECTION TOTALS			0
SECTION 4: HEALTH AND INDOOR AIR QUALITY			
OVERALL			
4-1	5	Builder or architect certified to have taken American Lung Association (ALA) of Washington "Healthy House Professional Training" course, or equivalent approved by Director	
4-2	15	Certify building under an IAQ program approved by Director	
4-3	5	Building is designated non-smoking	
4-4	2	Provide tenants or homeowners with maintenance checklists	
Subtotal			0
ON-SITE OPERATIONS			
4-5	1	Use less-toxic cleaners	
4-6	1	Require workers to use VOC-safe masks when applying VOC containing wet products and N-95 dust masks when generating dust	
4-7	3 or 5	Take measures during construction operations to avoid moisture problems later (see Handbook for Basic or Expanded levels)	
4-8	2	Take measures to avoid problems due to construction dust by performing all items listed in the handbook	
4-9	3	Ventilate during all new wet finish applications	
4-10	2	No use of unvented heaters during construction	
4-11	3	Clean duct and furnace thoroughly before occupancy	
4-12	2	Train subs in implementing a healthy building jobsite plan for the project	
4-13	2	Cover all duct openings during construction	
Subtotal			0
LAYOUT AND MATERIAL SELECTION			
4-14		Inside the building envelope use only low-VOC, low-toxic, water-based, solvent-free sealers, grouts, mortars, drywall mud, caulks, and adhesives for:	
4-14a	2	Tiling	
4-14b	2	Framing	
4-14c	4	Flooring	
4-14d	2	Plumbing	
4-14e	2	HVAC	
4-14f	2	Insulating	
4-14g	2	Drywalling	
4-15	5	Use an alternative to fiberglass insulation	
4-16	3	Use urea formaldehyde-free insulation or Greenguard certified product	
4-17	1	Do not install insulation or carpet padding that contains brominated flame retardant	
4-18	3	Use plywood and composites of exterior grade with no added urea formaldehyde (for interior use)	
4-19	5	Use only shelving, window trim, door trim, base molding, etc., with no added urea formaldehyde	
4-20	5	Install cabinets made with board with no added urea formaldehyde and low-toxic finish	
4-21	1	Use pre-finished flooring	
4-22	3	Use ceramic tile flooring	
4-23	18	Bonus Points: No carpet in units	
4-24	3	Limit use of carpet to one-third of unit's square footage	
4-25	2	If installing carpet system (carpet, pad, and adhesive), specify CRI Green Label Plus or Greenguard	
4-26	3	If using carpet, install by dry method	
4-27	2	Install low pile or less allergen-attracting carpet and pad	
4-28	2	Install natural fiber carpet	
4-29	2	Avoid carpet in environments where it can get wet	
4-30	2 or 6	Optimize air quality in family bedrooms to basic or advanced level by completing items listed in handbook	
4-31	5	Use only low-VOC / low-toxic interior paints, primers, and finishes for large surface areas	
4-32	7	Use only low-VOC / low toxic interior paints and finishes for all surface areas (including doors, windows, trim)	
4-33	30	Select materials such that the building is free from the following materials/chemicals: added formaldehyde, halogenated flame retardants, PVC, mercury, CFCs, HCFCs, neoprene (chloroprene), cadmium, chlorinated polyethylene, xylene, toluene	
Subtotal			0
MOISTURE CONTROL			
Overall			
4-34	4	Use Building Envelope Consultant during design	
4-35	1	Grade to drain away from buildings	
4-36	4	Envelope inspection at various stages of envelope installation by a qualified professional	
Roof			
4-37	6	Provide 50% minimum 2 inch 12 pitch sloped roof surface	
4-38	10	Provide 100% minimum 2 inch 12 pitch sloped roof surface	
Walls - Above Grade			
4-39	3	Provide continuous weather resistive barrier and continuous air seal barrier with manufacturer's recommended termination (seal or tape)	
4-40	3	Use self-adhering membrane flashing and counter-flashing at all inside and outside corners and at exterior siding materials transitions	
4-41	6	Install an enhanced drainage plane with an air space to allow ventilation between the weather barrier and cladding and include weep control system	
4-42	3 or 7	Use moisture test to ensure that wood framing contains less than 15% moisture content prior to installation of any interior finish	
4-43	3	In wood-framed structures, use low-toxic mold-inhibitor product	

Below Grade			
4-44	3	For slab on grade, use 10 mil polyethylene vapor barrier or equivalent performance, under slab	
4-45	2	Perform moisture test for any slab on grade prior to installing any finish to manufacturer's specifications	
4-46	2	Install working mechanical vent system to eliminate potential moisture, methane, and radon problems in crawl space or under slabs on grade	
4-47	1	Install a rigid perforated footing drain at foundation perimeter, not connected to roof drain system	
4-48	3	Install moisture management system for below grade walls beyond code, i.e., drainage mat	
Openings			
4-49	3	Provide appropriately sized overhangs at 25% of openings	
4-50	6	Provide appropriately sized overhangs on 100% south and/or west side openings	
4-51	1	Properly seal building openings and penetrations against moisture and air leaks as specified in handbook	
4-52		Install additional moisture control measures:	
4-52a	1	sill pans with back dams at windows	
4-52b	7	door pans with back dams at doors	
4-52c	3	sill protection at windows	
4-52d	3	threshold protection at doors	
4-52e	1	metal head flashing at windows	
4-52f	1	metal head flashing at doors	
4-53	3	Provide hose testing or negative pressurization testing to pre-installed sample of each window type to test assembly for moisture control protection	
Subtotal			0
IR DISTRIBUTION AND FILTRATION			
4-54	1	Provide ideal relative humidity and air circulation to prevent IAQ problems	
4-55	1	Ensure ceiling plenums contain no hazardous/unhealthy materials	
4-56	2	No stud or joist cavities used as plenums	
4-57	2	Do not install electronic, metal mesh, horse hair, or non-pleated fiberglass filters	
4-58	1	Make sure air intakes are placed to avoid intake from air pollutant sources that go beyond code	
4-59	1	No parking within 40 feet of building air intakes	
4-60		Use effective air filter:	
4-60a	1	Use medium efficiency pleated filter, MERV 10	
4-60b	5	Use high efficiency pleated filter, MERV 12 or better, or HEPA	
4-61	2	Install operable windows in all occupied spaces to allow for cross ventilation and daylighting	
4-62		Install CO detector (hardwired) for all units with a combustion device	
4-63	3	Separately ventilate all janitorial spaces, copy rooms, and chemical storage areas	
4-64	2	Install CO ₂ detectors in community rooms	
Subtotal			0
VAC EQUIPMENT			
4-65	1	Design to ensure accessibility of all system components	
4-66	1	Design to prevent standing water in HVAC system	
4-67	1	Flow test all spot ventilation fans in units	
4-68	1	Use heating system controls that are free of mercury	
4-69	1	Limit kitchen exhaust fan to 300 cfm maximum	
4-70	1	Install a 60-minute timer or humidistat for bath exhaust fans	
4-71	2	Install quiet (≤0.8 sone) bath fan with smooth ducting, minimum 4 inch	
4-72	1	Reduced or zero use of ozone-depleting compounds in refrigeration and fire suppression systems	
4-73	1	No sound insulation or other fibrous materials installed inside ducting	
4-74	3	Install sealed combustion heating and hot water equipment	
Subtotal			0
HEALTH AND INDOOR AIR QUALITY			
4-75	1	Build a lockable storage closet for hazardous cleaning and maintenance products, separate from occupied space	
4-76	1	Install biodegradable carbon filter at sink	
4-77	3	Install showerhead filter in all units, include information in the tenant handbook	
4-78	3	Provide permanently installed track-off mats and/or shoe grates at common entryways to building	
4-79	2	Provide track-off mats at exterior unit main entrances to each unit and a shoe storage area	
4-80	3	Design a shoe removal vestibule at major entrances to units	
4-81	3	Do not install a wood-burning fireplace inside unit or building	
4-82	1	Do not install gas-burning appliances inside unit or building	
4-83	1	Install floor drain or catch basin with drain under washing machine	
Subtotal			0
EXTRA CREDIT / INNOVATION for Health and Indoor Air Quality			
4-84	1-10	Extra credit / innovation for Health and Indoor Air Quality	
Subtotal			0
HEALTH AND INDOOR AIR QUALITY SECTION TOTALS			0
SECTION FIVE: MATERIALS EFFICIENCY			
OVERALL			
5-1	10	Practice waste prevention and recycling and buy recycled products	
5-2	5 or 7 or 9	Design and build for deconstruction concept - 50%, 75%, or 90%	
5-3	1-5	Eliminate materials and systems that require finishes or finish materials on a minimum of 100 square feet in common areas- 1 pt per 100 sf - 5 pts max	
Subtotal			0
ON-SITE OPERATIONS			
5-4	3	Provide weather protection for stored materials	
5-5	1	Substitute products that require solvent-based cleaning methods with solvent-free or water-based methods	
5-6	5	Purchase a one-time carbon offset to account for construction carbon footprint	
Subtotal			0
WASTE REDUCTION			
5-7	2	Create detailed take-off and provide as cut list to framer	
5-8	2	Use central cutting area or cut packs	
5-9	3	Require subcontractors and contractor's employees to participate in waste reduction efforts	
Subtotal			0

reuse			
5-10	2 or 10 or 20	Use deconstruction to dismantle and reuse existing building(s) on site	
5-11	1	Sell or give away wood scraps, lumber and land clearing debris	
5-12	1	Donate, give away, or sell reusable finish items	
5-13		Re-use materials:	
5-13a	1	doors	
5-13b	1	flooring	
5-13c	1	windows	
5-13d	1	appliances	
5-13e	1	fixtures	
5-13f	1	hardware	
5-13g	1	cabinets	
5-13h	1	siding	
5-13i	1	decking	
5-13j	1	trim	
5-13k	2	framing lumber	
5-14	1-10	Bonus points for reuse of salvaged materials	
Subtotal			0
recycle			
Source Separation Recycling			
5-15	1	Recycle cardboard by source separation, 90% minimum recycling rate	
5-16	2	Recycle metal scraps by source separation, 90% minimum recycling rate	
5-17	5	Recycle clean scrap wood and broken pallets by source separation, 90% minimum recycling rate	
5-18	2	Recycle package wrap and pallet wrap by source separation, 90% minimum recycling rate	
5-19	3	Recycle drywall by source separation, 90% minimum recycling rate	
5-20	2	Recycle concrete/asphalt rubble, masonry materials, or porcelain by source separation, 90% minimum recycling rate	
5-21	1	Recycle paint by source separation, 90% minimum recycling rate	
5-22	4	Recycle asphalt roofing by source separation, 90% minimum recycling rate	
5-23	2	Recycle carpet padding by source separation, 90% minimum recycling rate	
5-24	2	Recycle carpet by source separation, 90% minimum recycling rate	
5-25	1	Recycle glass by source separation, 90% minimum recycling rate	
5-26	3	Recycle land clearing and yard waste, soil and sod by source separation, 90% minimum recycling rate	
5-27	1	Recycle batteries	
5-28	4	Comingle recycle at least 50% of remaining jobsite debris, and take to a facility with a minimum recycling rate of 50%	
Subtotal			0
Comingle Recycling			
5-29	5 or 10	Send less than 1lb per square foot of gross construction waste to land fill, or less than ½ lb per square foot to land fill (does not include deconstruction)	
5-30	10	Send at least 85% of jobsite waste (by weight excluding concrete) to a commingled recycling facility with 50% recycling rate	
5-31	18	Send at least 85% of jobsite waste (by weight excluding concrete) to a commingled recycling facility with 75% recycling rate	
5-32	24	Send at least 85% of jobsite waste (by weight excluding concrete) to a commingled recycling facility with 90% recycling rate	
Subtotal			0
ESIGN AND MATERIAL SELECTION			
Overall			
5-33	1	Use standard dimensions in design of structure	
5-34	10	Design and install recycling stations on each floor, including a maintenance service plan	
5-35	1	Install materials with longer life cycles	
5-36	1	Install locally/regionally produced materials	
5-37	10	Install locally/regionally produced materials, minimum 5 materials used in all units	
5-38	5	Use salvaged lumber, minimum of 1,000 board feet	
5-39	1	Use any amount of rapidly renewable building materials and products made from plants harvested within a ten-year cycle or shorter	
5-40	3	In three applications, use rapidly renewable building materials and products made from plants harvested within a ten-year cycle or shorter	
5-41	3	Use no endangered wood species	
5-42	2	Use environmentally preferable products with third-party certifications	
5-43	3	Use no PVC or CPVC piping for plumbing or sprinkler within the building envelope	
Subtotal			0
Framing			
5-44	10	Use dimensional lumber that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-45	6	Use dimensional lumber that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-46	7	Use sheathing that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-47	4	Use sheathing that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-48	5	Use beams that are third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-49	3	Use beams that are third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-50	3	Use factory framed wall panels (panelized wall construction)	
5-51	3	Use engineered structural products and use no 2xs larger than 2x8, and no 4xs larger than 4x8	
5-52	1	For interior walls, use steel studs with minimum 50% recycled content	
5-53	4	Use structural insulated panels (SIPs)	
5-54	2	Use insulated concrete forms (ICFs)	
5-55	1	Use finger-jointed framing material (e.g. studs)	
5-56	5	Use advanced system framing with double top plate	
Subtotal			0

oundation			
5-57	1 or 3	Use at least 90% regionally or locally produced block	
5-58	3 or 6	Use regionally produced flyash or blast furnace slag for 25% by weight of cementitious materials for all concrete (20% for flat work), if available	
5-59	2	Use recycled concrete, asphalt, or glass cullet for base or fill	
			Subtotal
			0
ub-Floor			
5-60	1	Use recycled content sub-floor	
			Subtotal
			0
doors			
5-61	2	Use domestically-grown wood interior doors	
			Subtotal
			0
inish Floor			
5-62	1	If using vinyl flooring, use product with recycled content	
5-63	4	No vinyl flooring	
5-64	1	Use any amount of rapidly renewable flooring products made from plants harvested within a ten-year cycle or shorter (excluding carpet)	
5-65	3	On more than 250 square feet per unit, use rapidly renewable flooring products made from plants harvested within a ten-year cycle or shorter (excluding carpet)	
5-66	1	Use recycled content carpet pad	
5-67	1	Use recycled content or renewed carpet	
5-68	2 or 4	Use replaceable carpet tile for 50% of carpeted area or 100% of carpeted area	
5-69	5	If using tile, use 75% of tile that is 40% recycled content	
5-70	5	Use natural linoleum	
5-71	1 or 3 or 5	If using wood flooring, use locally salvaged wood flooring on 25%, 50% or 90%+ of total flooring	
5-72	5	Use flooring that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-73	3	Use flooring that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-74	1	Use spot repairable floor finish	
			Subtotal
			0
terior Walls			
5-75	4	Use drywall with a minimum of 90% recycled content gypsum or flue gas substitute for recycled gypsum	
5-76	2 or 3	Use recycled or "reworked" paint and finishes on main surfaces or all surfaces	
5-77	1	Use recycled newspaper or cork expansion joint filler	
5-78	2	Use natural wall finishes, like lime paint and clay	
5-79	2	Reduce interior walls through open plan for kitchen, dining and living areas	
5-80	2	Install toilet/shower partitions with recycled content	
			Subtotal
			0
eilings			
5-81	1	If installing acoustical ceiling, select a recycled content product	
			Subtotal
			0
xterior Walls			
5-82	2	Use recycled content sheathing (OSB does not apply)	
5-83	3	Use exterior cladding with reclaimed or recycled material on at least 20% of solid wall surface	
5-84	4	No vinyl siding or exterior trim	
5-85	3	Use salvaged masonry brick or block, 50% minimum	
5-86	2	Use regionally produced stone or brick	
5-87	2	Use 50-year siding product	
5-88	5	Use wood siding that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook on at least 20% of solid wall surface	
5-89	3	Use wood siding that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook on at least 20% of solid wall surface	
			Subtotal
			0
indows			
5-90	3	Use wood, composite, or fiberglass windows	
5-91	4	No vinyl windows	
5-92	1	Use finger-jointed wood windows	
5-93	2	Use regionally produced windows	
			Subtotal
			0
rim			
		If using wood trim:	
5-94a	1	Use regional products, 50% minimum	
5-94b	3	Use domestic hardwood trim that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-94c	2	Use domestic hardwood trim that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-94d	3	Use third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-94e	2	Use third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-95	3	Use finger-jointed or MDF trim with no added urea formaldehyde, 90% minimum	
5-96	1	Use wood veneers that are third-party certified sustainably harvested woods that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-97	1	Use wood veneers that are third-party certified sustainably harvested woods that meets the Tier 2 requirements outlined in the Handbook, 75% minimum	
			Subtotal
			0

abinetry			
5-98		For cabinets:	
5-98a	2	Use regional products, 90% minimum	
5-98b	2	Use domestic hardwood that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-98c	1	Use domestic hardwood that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-98d	2	Use third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook, 50% minimum	
5-98e	1	Use third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook, 50% minimum	
5-98f	2 or 3	Use cabinet casework and shelving constructed of agricultural fiber ("strawboard" or "wheatboard") with no added urea formaldehyde for 50% or 90% of all casework	
5-99	1	Use resource efficient countertop material in lobby/reception areas	
5-100	4	Use countertops that are salvaged, recycled, or third-party certified sustainably harvested wood with a chain of custody in all units	
Subtotal			0
roof			
5-101	2	Use recycled content roofing material	
5-102	3	Upgrade material quality and durability (metal is better than torch down)	
5-103	2	Use 30-year warranted roofing material	
5-104	4	Use 40-year warranted roofing material	
5-105	6	Use 50-year warranted roofing material	
5-106	7	Use solar shingles	
5-107	3	Install a metal roof	
Subtotal			0
Insulation			
5-108	2	All insulation to have a minimum of 40% recycled content	
5-109	3	Use environmentally friendly foam building products (formaldehyde-free, CFC-free, HCFC-free)	
5-110	3	Use backer rod around windows for infiltration sealing	
Subtotal			0
Other Exterior			
5-111	2	Use reclaimed or salvaged material for landscaping walls	
5-112	3	Use 100% recycled content HDPE, salvaged lumber, or lumber that is third-party certified sustainably harvested wood that meets the Tier 1 requirements outlined in the Handbook for decking and porches	
5-113	2	Use 100% recycled content HDPE, salvaged lumber, or lumber that is third-party certified sustainably harvested wood that meets the Tier 2 requirements outlined in the Handbook for decking and porches	
5-114	2	Use recycled content lumber for decking (e.g., Trex)	
5-115	4	If lumber is used, use no pressure treated lumber	
5-116	1	If using pressure-treated lumber, use CAB	
Subtotal			0
XTRA CREDIT / INNOVATION for Materials Efficiency			
5-117	1-10	Extra credit / innovation for Materials Efficiency	
Subtotal			0
MATERIALS EFFICIENCY SECTION TOTALS			0
PROJECT SCORING TOTAL			0
PROJECT SUMMARIES			
One	PROGRAM REQUIREMENTS AND CODES / REGULATIONS		X
Two	SITE & WATER SECTION TOTALS		0
Three	ENERGY EFFICIENCY SECTION TOTALS		0
Four	HEALTH & INDOOR AIR QUALITY SECTION TOTALS		0
Five	MATERIAL EFFICIENCY SECTION TOTALS		0

_____ **Total Points for Project**

Program Level Obtained

2-Star ★★ 3-Star ★★★

4-Star ★★★★ 5-Star ★★★★★

By my signature, I certify that I have performed all Action Items checked above.

X _____

(Home Builder Signature and Date)