



HOME BUILDER Self-Certification Checklist

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

Requirements to Qualify at 1-Star Level

(All items plus orientation)

- Program Orientation (one time only)
- Section 1: Build to “Green” Codes & Regulations
- Earn 25 points from Sections 2 through 6, any items
- Prepare/post a jobsite recycling plan (Action Item 5-19)
- Provide an Operations & Maintenance Kit (Action Item 6-1)

Requirements to Qualify at 2-Star Level (100 points minimum)

- Meet 1-Star requirements
- Earn 75 additional points from Sections 2 through 6, with at least 6 points from each Section
- Attend a BUILT GREEN™ approved workshop within past 12 months prior to certification

Requirements to Qualify at 3-Star Level (180 points minimum)

- Meet 2-Star requirements plus 105 additional points

Section One: Build to Green Codes/Regulations

- () 1-1. Meet Washington State Wtr Use Effic Std
- () 1-2. Meet Stormwater/Site Development Stds
- () 1-3. Meet Washington State Energy Code
- () 1-4. Meet Washington State Ventilation/IAQ Code

Section Two: Site and Water

SITE PROTECTION

Overall

- (3) 2-1. Build on an infill lot to take advantage of existing infrastructure and reduce development of virgin sites
- (10) 2-2. Build in a BUILT GREEN™ development

Protect Site's Natural Features

- (3) 2-3. Limit heavy equipment use zone to limit soil compaction
- (3) 2-4. Preserve existing native vegetation as landscaping
- (3) 2-5. Take extra precautions to protect trees during construction

- (3) 2-6. Preserve and protect wetlands, shorelines, bluffs, and other critical areas during construction
- (5-10) 2-7. Set aside percentage of site to be left undisturbed

Protect Natural Processes On-Site

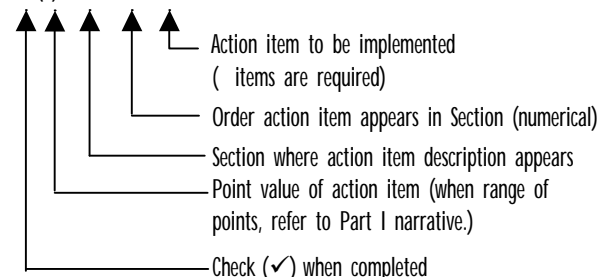
- (1) 2-8. Install temporary erosion control devices and optimally maintain them
- (1) 2-9. Use compost to stabilize disturbed slopes
- (1) 2-10. Protect topsoil with mulch or plastic
- (3) 2-11. Balance cut and fill, while maintaining original topography
- (3) 2-12. Limit grading to 20 ft outside building footprint
- (4) 2-13. Amend disturbed soil to a depth of 8 to 10 inches to restore soil environmental functions
- (5) 2-14. Replant or donate removed vegetation for immediate reuse
- (5) 2-15. Grind landclearing wood and stumps for reuse
- (5) 2-16. Use a water management system that allows groundwater to recharge
- (5) 2-17. Design to achieve effective impervious surface equivalent to 0% for 5 acres and above; <10% for less than 5 acres
- (5) 2-18. Use pervious materials for at least one-third of total area for driveways, walkways, patios
- (10) 2-19. Bonus Points: Install vegetated roof system (e.g. eco-roof) to reduce impervious surface
- (10) 2-20. Bonus Points: Construct no impervious surfaces outside house footprint

Eliminate Water Pollutants

- (1) 2-21. Take extra care to establish and maintain a single stabilized construction entrance (quarry spall or crushed rock)
- (1) 2-22. Take extra precautions to install and maintain sediment traps

HOW TO USE THE CHECKLIST

(2) 2—33. Construct tire wash



- (1) 2-23. Establish and post clean up protocol for tire wash
- (1) 2-24. Take extra precautions to not dispose of topsoil in lowlands or wetlands
- (1) 2-25. Wash out concrete trucks in slab or pavement subbase areas
- (1) 2-26. Prohibit burying construction waste
- (1) 2-27. When construction is complete, leave no part of the disturbed site uncovered or unstabilized
- (1) 2-28. Recycle antifreeze, oil, and oil filters at appropriate outlets
- (1) 2-29. Dispose of non-recyclable hazardous waste at legally permitted facilities
- (1) 2-30. Establish and post clean up procedures for spills to prevent illegal discharges
- (2) 2-31. Reduce hazardous waste through good jobsite housekeeping
- (2) 2-32. Provide an infiltration system for rooftop runoff
- (2) 2-33. Construct tire wash
- (2) 2-34. Use slow-release organic fertilizers to establish vegetation
- (2) 2-35. Use less toxic form releasers
- (3) 2-36. Use non-toxic or low-toxic outdoor lumber for landscaping (e.g. plastic, least-toxic treated wood)
- (4) 2-37. Phase construction so that no more than 60% of site is disturbed at a time and to prevent adverse impacts on adjoining properties or critical areas
- (5) 2-38. No clearing or grading during winter months
- (5) 2-39. No zinc galvanized ridge caps, copper flashing or copper wires for moss prevention

DESIGN ALTERNATIVES

- (5) 2-40. Bonus Points: Provide an accessory dwelling unit or accessory living quarters
- (5) 2-41. Bonus Points: Build north area of the lot first, retaining south area for outdoor activities
- (5) 2-42. Bonus Points: Provide a front porch
- (5) 2-43. Bonus Points: Position garage so it is not in front of house
- (2-5) 2-44. Bonus Points: Minimize garage size

_____ Subtotal for Section Two

Section 3: Energy Efficiency

ENVELOPE

Thermal Performance

- (10-40) 3-1. Document envelope improvements beyond code (component performance approach)
- (1-55) 3-2. Document envelope improvements beyond code (prescriptive approach)
- (5) 3-3. Bonus Points: Participate in a program that provides third-party plan review and inspection (e.g., ENERGY STAR®, BUILT SMART)

Air Sealing

- (1) 3-4. House wrapped with an exterior air infiltration barrier to manufacturer's specifications
- (2) 3-5. Airtight Drywall Approach for framed structures
- (2) 3-6. Use airtight building method, such as SIP or ICF
- (2) 3-7. Blower door test

Reduce Thermal Bridging

- (1) 3-8. Use insulated headers
- (1) 3-9. Fully insulate corners (requires 2-stud instead of 3-stud corners)
- (1) 3-10. Fully insulate at interior/exterior wall intersection
- (1) 3-11. Use energy heels of 6 in. or more on trusses to allow added insulation over top plate
- (2) 3-12. Use structural insulated panels
- (2) 3-13. Use insulated exterior sheathing
- (3) 3-14. Use advanced wall framing—24-in OC, w/double top plate

Solar Design Features

- (2) 3-15. Provide south shading—install properly sized overhangs on south facing glazing
- (2) 3-16. Orient windows to make the best use of passive solar
- (2) 3-17. Provide east and west shading—use glazing with solar heat gain coefficient less than 0.40 or provide natural shading with landscaping
- (1-4) 3-18. Demonstrate a reduction in space conditioning energy, using approved energy modeling software

HEATING/COOLING

Distribution

- (1) 3-19. Centrally locate heating / cooling system to reduce the size of the distribution system
- (1) 3-20. Two properly supported ceiling fan pre-wires
- (3) 3-21. Use advanced sealing of ducts using low toxic mastic
- (3) 3-22. Performance test duct for air leakage meets third-party review and certification
- (5) 3-23. Locate heating / cooling equipment and the distribution system inside the heated space

Controls

- (1) 3-24. Install thermostat with on-switch for furnace fan to circulate air
- (1) 3-25. Install 60-minute timers or humidistat for bathroom and laundry room fans
- (2) 3-26. Install programmable thermostats

Heat Recovery

- (3) 3-27. Install a heat recovery ventilator

WATER HEATING**Distribution**

- (1) 3-28. Locate water heater within 20 pipe feet of highest use
- (1) 3-29. Insulate hot and cold water pipes within 3 feet of the hot water heater

Drainwater Heat Recovery

- (3) 3-30. Drainwater heat recovery system (DHR)

LIGHTING**Natural Light**

- (1) 3-31. Light-colored interior finishes
- (2) 3-32. Use clerestory for natural lighting
- (2) 3-33. Use light tubes for natural lighting and to reduce electric lighting

Solar Powered Lighting

- (1) 3-34. Solar-powered walkway or outdoor area lighting

EFFICIENT DESIGN

- (3) 3-35. Use building and landscaping plans that reduce heating/cooling loads naturally

ALTERNATIVE SYSTEMS (Bonus Points)

- (5) 3-36. Bonus Points: Solar water heating system
- (10) 3-37. Bonus Points: More than 2% of house powered by photovoltaic

_____ Subtotal for Section Three

Section 4: Health and Indoor Air Quality**OVERALL**

- (5) 4-1. Assist homeowners with chemical sensitivities to identify preferred IAQ measures and finishes
- (5) 4-2. Bonus Points: Builder certified to have taken American Lung Association (ALA) of Washington "Healthy House Professional Training" course
- (15) 4-3. Bonus Points: Certify house under ALA Health House Program

JOB-SITE OPERATIONS

- (1) 4-4. Use less-toxic cleaners
- (1) 4-5. Require workers to use VOC-safe masks
- (2) 4-6. Take measures during construction operations to avoid moisture problems later
- (2) 4-7. Take measures to avoid problems due to construction dust
- (3) 4-8. Ventilate with fans after each new finish is applied
- (3) 4-9. No use of unvented heaters during construction
- (3) 4-10. Clean duct and furnace thoroughly just before owners move in
- (4) 4-11. Involve subs in implementing a healthy building job-site plan for the project

LAYOUT AND MATERIAL SELECTION

- (1) 4-12. If using carpet, specify CRI IAQ label
- (1) 4-13. Install low pile or less allergen-attracting carpet and pad
- (3) 4-14. Limit use of carpet to one-third of home's square footage
- (3) 4-15. Optimize air quality in family bedrooms
- (3) 4-16. If using carpet, install by tacking (no glue)
- (3) 4-17. Detached or no garage OR garage air-sealed from house with automatic exhaust fan
- (3) 4-18. Use formaldehyde-free fiberglass insulation
- (3) 4-19. Use Low-VOC, low-toxic, water-based, solvent-free sealers, grouts, mortars, caulks and adhesives inside the house
- (3) 4-20. Use plywood and composites of exterior grade or formaldehyde-free (for interior use)
- (3) 4-21. Install cabinets made with formaldehyde-free board and low-toxic finish
- (3) 4-22. Use ceramic tile for flooring
- (3) 4-23. Use polyethylene piping for plumbing (no PVC)
- (3) 4-24. Install natural fiber carpet (e.g. jute, sisal, wool)
- (5) 4-25. Use low-VOC /low-toxic interior paints and finishes for large surface areas
- (10) 4-26. Bonus Points: No carpet

MOISTURE CONTROL

- (1) 4-27. Grade to drain away from buildings
- (1) 4-28. Seal at doors, windows, plumbing and electrical penetrations against moisture and air leaks
- (1) 4-29. If slab is used, install poly barrier properly; if no slab, bottom of floor is sufficient height above backfilled dirt
- (1) 4-30. Vent attic over code requirements to reduce moisture buildup
- (1) 4-31. Use roof gutters to drain out onto splash blocks or approved system to drain water away from building
- (1) 4-32. Roofs are pitched and flashed properly
- (1) 4-33. Design wall system to allow water to drain out in the event of possible water penetration
- (2) 4-34. Install "radon" type vent system to eliminate potential moisture problems

AIR DISTRIBUTION AND FILTRATION

- (1) 4-35. Prohibit use of electronic filter
- (1) 4-36. Install return-air ducts in every bedroom
- (1) 4-37. Install ducting/damper for fresh air intake
- (3) 4-38. Use medium-efficiency pleated filter or better
- (3) 4-39. Balance airflow system based on filter being used
- (3) 4-40. Install furnace and/or duct-mounted air cleaner or high efficiency air filter (non-electronic)
- (3) 4-41. Install central vacuum, exhausted to outside
- (3) 4-42. Provide for cross ventilation using operable windows
- (3) 4-43. Install CO detector

HVAC EQUIPMENT

- (1) 4-44. Install and test bath, laundry, pool, hot tub, and kitchen exhaust fans (if range top and/or oven are gas fired), vented to outside
- (1) 4-45. Install crank timer switches for bath exhaust fans
- (1) 4-46. Install bath fan with smooth ducting, minimum 4 in. diameter
- (2) 4-47. Install exhaust fans in rooms where office equipment is used
- (2) 4-48. Install sealed combustion heating and hot water equipment
- (2) 4-49. Install power venting for combustion furnaces and water heating equipment
- (2) 4-50. Install exhaust fan in attached garage on timer or wired to door opener
- (4) 4-51. Install whole house fan
- (5) 4-52. Bonus Points: Provide balanced or slightly positive indoor pressure using controlled ventilation
- (10) 4-53. Bonus Points: Seal the forced air heating system with mastic OR install a ductless heating system

Subtotal for Section Four

Section Five: Materials Efficiency

OVERALL

- (5) 5-1. Enroll project in King County *ConstructionWorks* program at "Regular" level OR in Snohomish County, meets equivalent criteria
- (10) 5-2. Enroll project in King County *ConstructionWorks* Program at "Distinguished" level OR in Snohomish County, meets equivalent criteria
- (5-25) 5-3. Limit project size

JOBSITE OPERATIONS

Reduce

- (1) 5-4. Use suppliers who offer reusable or recyclable packaging
- (1) 5-5. Provide weather protection for stored materials
- (2) 5-6. Create detailed take-off and provide as cut list to framer
- (2) 5-7. Use central cutting area or cut packs
- (3) 5-8. Require subcontractors to participate in waste reduction efforts

Reuse

- (1) 5-9. Reuse building materials
- (1) 5-10. Reuse dimensional lumber
- (1) 5-11. Use reusable supplies for operations, such as construction fences, tarps, refillable propane tanks
- (1) 5-12. Move leftover materials to next job or provide to owner
- (1) 5-13. Reuse spent solvent for cleaning
- (1) 5-14. Sell or give away wood scraps
- (1) 5-15. Sell or donate reusable items
- (2) 5-16. Use reusable forms
- (2) 5-17. Purchase used building materials for your job
- (2) 5-18. Save and reuse site topsoil

Recycle

- () 5-19. Prepare jobsite recycling plan and post on site
- (3) 5-20. Require subcontractors to participate in recycling efforts
- (1) 5-21. Recycle cardboard
- (2) 5-22. Recycle metal scraps
- (3) 5-23. Recycle wood scrap and broken pallets
- (3) 5-24. Recycle packaging
- (3) 5-25. Recycle drywall
- (3) 5-26. Recycle concrete/asphalt rubble, rock, and brick
- (3) 5-27. Recycle paint
- (4) 5-28. Recycle asphalt roofing
- (5) 5-29. Recycle carpet/carpet padding and upholstery foam
- (5) 5-30. Recycle fluorescent lights and ballasts
- (5) 5-31. Recycle landclearing and yard waste, soil and sod

DESIGN AND MATERIAL SELECTION

Overall

- (1) 5-32. Use standard dimensions in design of structure
- (1) 5-33. Install materials with longer life cycles
- (2) 5-34. Install locally produced materials
- (3) 5-35. Use re-milled salvaged lumber
- (3) 5-36. Use wood products certified by FSC or other recognized agency as "sustainable"

Framing

- (1) 5-37. Use stacked floor plans
- (1) 5-38. Use engineered structural products
- (2) 5-39. Use structural insulated panels
- (3) 5-40. Use cementitious foam-formed walls with flyash concrete
- (3) 5-41. Use finger-jointed framing material (e.g. plates and studs)
- (3) 5-42. Use (R-19) 2x6 intermediate framing
- (6) 5-43. At least 50% of dimensional lumber is certified sustainable wood (FSC or equal)
- (10) 5-44. At least 90% of dimensional lumber and 50% of sheathing is certified sustainable wood (FSC or equal)

Foundation

- (1) 5-45. Use regionally produced block
- (1) 5-46. Use flyash in concrete
- (2) 5-47. Use recycled concrete, asphalt, or glass cullet for base or fill

Sub-Floor

- (1) 5-48. Use recycled-content underlayment

Doors

- (1) 5-49. Use reconstituted or recycled-content doors
- (2) 5-50. No luan doors
- (2) 5-51. Use domestically-grown wood interior doors

Finish Floor

- (1) 5-52. If using vinyl flooring, use product with recycled content
- (1) 5-53. Use recycled-content carpet pad
- (3) 5-54. Use recycled-content or renewed carpet
- (5) 5-55. Use recycled-content ceramic tile
- (5) 5-56. Use linoleum, cork, or bamboo flooring

Interior Walls

- (1) 5-57. Use drywall with recycled-content gypsum
- (1) 5-58. Use recycled or "reworked" paint and finishes

Exterior Walls

- (1) 5-59. Use recycled-content sheathing
- (1) 5-60. Use siding with reclaimed or recycled material
- (2) 5-61. Use 50-year siding product
- (2) 5-62. Use salvaged masonry brick or block
- (2) 5-63. Use locally-produced stone or brick

Windows

- (1) 5-64. Use wood/composite windows
- (1) 5-65. Use finger-jointed wood windows

Cabinetry and Trim

- (2) 5-66. If using hardwood trim, use domestic products
- (2) 5-67. Use finger-jointed trim
- (5) 5-68. Use tropical hardwood trim or cabinets only if FSC certified or equal as "sustainable"
- (3) 5-69. Use domestic hardwood trim that is FSC certified or equal

ROOF

- (2) 5-70. Use recycled-content roofing material
- (2) 5-71. Use 30-year roofing material
- (3) 5-72. Use 40-year roof material

INSULATION

- (1) 5-73. Use recycled-content insulation
- (4) 5-74. Use environmentally friendly foam building products (formaldehyde-free, CFC-free, HCFC-free)

OTHER EXTERIOR

- (2) 5-75. Use reclaimed or salvaged material for landscaping walls
- (3) 5-76. Use recycled-content plastic or wood polymer lumber for decks and porches
- (5) 5-77. Bonus points: Use least toxic pressure treatment for pressure-treated wood (no CCA)

_____ Subtotal for Section Five

**Section Six: Promote Environmentally Friendly
Homeowner O&M**

HOMEOWNER'S KIT

- () 6-1. Provide owner with operations & maintenance kit

WATER PROTECTION

Outdoor Conservation

- (1) 6-2. Mulch landscape beds with 2 in. organic mulch
- (1) 6-3. Use grass type requiring less irrigation and minimal maintenance
- (3) 6-4. Use compost soil amendments to establish turf and other vegetation with less irrigation
- (3) 6-5. Limit use of turf grass to 25% of landscaped area
- (3) 6-6. Landscape with plants appropriate for site topography and soil types, emphasizing use of plants with low watering requirements
- (4) 6-7. Plumb for greywater irrigation
- (5) 6-8. Install rainwater collection system (cistern) for reuse
- (10) 6-9. Bonus Points: Install irrigation system using recycled water
- (10) 6-10. Bonus points: No turf grass

Indoor Conservation

- (1) 6-11. Select bathroom faucets with GPM less than code
- (1) 6-12. Select kitchen faucets with GPM less than code
- (1) 6-13. Select toilets that meet code, work with the first flush
- (3) 6-14. Install (tankless) instant hot water systems (where appropriate)
- (5) 6-15. Bonus points: Stub-in plumbing to use greywater water for toilet flushing
- (10) 6-16. Bonus points: Use greywater water for toilet flushing
- (10) 6-17. Bonus points: Install composting toilets

Eliminate Water Pollutants

- (1) 6-18. Educate homeowners about fish-friendly moss control
- (4) 6-19. Provide food waste chutes and compost or worm bins instead of a food garbage disposal

ENERGY

Heating/Cooling

- (2) 6-20. Select ENERGY STAR® heating / cooling equipment
- (2) 6-21. No gas fireplaces, Use direct vent gas or propane hearth product (AFUE rating)
- (2) 6-22. No fireplaces or only high efficiency units (Rumsford or Russian fireplace, masonry heater)
- (3) 6-23. No air conditioner

Water Heating

- (1) 6-24. Passive or on-demand hot water delivery system installed at farthest location from water heater
- (3) 6-25. Upgrade electric water heater efficiency from EF of .88 to .93

- (3) 6-26. Upgrade gas or propane water heater efficiency from EF of .55 to .60
- (4) 6-27. Install the water heater inside the heated space (electric, direct vent, or sealed venting only)
- (4) 6-28. Upgrade electric water heater to exhaust air heat pump water heater or de-superheater: EF 1.9
- (4) 6-29. Upgrade gas or propane water heater from EF of .55 to .83

Appliances

- (1) 6-30. Provide an outdoor clothesline
- (1) 6-31. Install gas clothes dryer
- (2) 6-32. Install a horizontal-axis or ENERGY STAR® washing machine
- (3) 6-33. Install an extra-efficient dishwasher (ENERGY STAR®)
- (3) 6-34. Install ENERGY STAR® refrigerator

Efficient Lighting

- (1) 6-35. Furnish four compact fluorescent light bulbs to owners (req'd if installing screw-in compacts, See Action Item 6-38)
- (1) 6-36. Halogen lighting substituted for incandescent down-lights
- (2) 6-37. Install ltg dimmer, timers, and/or motion detectors
- (2-5) 6-38. Use compact fluorescent bulbs, ballast, or fixtures in three high-use locations (kitchen, porch/outdoors, and one other location)

Health and Indoor Air Quality

- (1) 6-39. Build a lockable storage closet for hazardous cleaning & maint. products, separate from occupied space
- (1) 6-40. If installing water filter at sink, select one with biodegradable carbon filter
- (1) 6-41. Install showerhead filter

Recycling

- (2) 6-42. Provide garage sorting bins for recyclable materials
- (4) 6-43. Provide built-in kitchen or utility room recycling ctr

_____ Subtotal for Section Six

_____ **Total Points for Project**

Program Level Obtained:

1-Star 2-Star 3-Star

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

(Home Builder Signature and Date)