GREEN BUILT HOME

C H E C K L I S T



Green Built Home™ is a national award-winning green building initiative that reviews and certifies new homes and remodeling projects that meet sustainable building and energy standards.



Green Built Home is implemented in partnership with the Madison Area Builders Association in cooperation with other participating builders associations, leading utilities and organizations that promote green building.

www.greenbuilthome.org

Green Built Home Remodeling Project Registration

Company Name			
Address			
City	State	Zip	
Contact	Phone	Fax _	
Email	Web site		
S	ubmittal Requireme	ents per Proiect	
		per 1 10 j eec	
Project Address:		City:	
Project title (i.e. kitchen remodel):			
Project start date:	Project Comp	etion Date:	
Has a Green Built Home Remodelin	a project been certified at this sam	a address hefore?	es 🗇 NO
□ Architectural Cross Sect□ Show cross section to provid□ Product/Materials Information	nd fully dimensioned. eaves and overhangs. (if applicable to project): e. sed finished elevation of floor and leions (if applicable to project) le internal detail to evaluate construmation: ed for this project (e.g. paints, solve	et): uction technique and material ents, adhesives, etc.)	
	Fee Sche	dule	
Please circle one Project Registration Fee	NARI or HBA member \$50 per project	Non-member \$75 per project	
TOTAL FEE:	\$	\$	_
Please mail form submitts	als and navment to:		

Please mail form, submittals, and payment to:

Green Built Home

16 N. Carroll Street, Suite 840 Madison, WI 53703 P.608-280-0360 F.608-280-0361 WWW.GreenBuiltHome.org

Here's how Green Built Remodeled Home works...

Each contractor must register annually as a participating Green Built Home Remodeler. If you have not already registered, complete and submit the Remodeler Enrollment Form. Homeowners completing the work themselves (DIY) are not required to submit the Remodeler Enrollment Form. However, for each project, the contractor or homeowner must complete and submit the Green Built Home Remodeling Checklist.

For more information or to download forms, please see our website at www.greenbuilthome.org or call 608-280-0360.

Quality Control:

Green Built Home and/or its partners will review completed Checklists, plans, and other submittals as well as work with participants to verify that all Basic Requirements are met for every project entered into the program. Contractors or homeowners whose projects do not initially meet program standards will be expected to take corrective action before these projects are certified.

Green Built Home and/or its partners will randomly verify at least 10% of registered projects to maintain quality control and program credibility. Verification may include testing and may also require that the contractors or homeowners provide information such as: rating certificates, spec sheets, invoices, labels, product literature, and material safety data sheets (MSDS) as documentation. Contractors and homeowners will also have the opportunity to request a site visit of their registered home at any time.

PLEASE NOTE, Green Built Home is only certifying individual remodeling projects, not the entire home. No claims are being made other than the remodeling project named on the Project Registration Form meets the requirements outlined in this Checklist. Homes that incorporate certified Green Built Home Remodeling projects may contain other elements that are not considered green.

Contractor Responsibilities

Contractors will certify to the homeowner that each registered project meets the minimum standards as set forth by the Checklist by providing: 1) a signed copy of the completed Checklist or 2) a fact sheet or Green Built Specifications document that establishes that all the Basic Requirements and features earning the minimum number of points required for certification have been incorporated into the home.

Valuable Green Built Home Resources:

Want to learn more about "green" building practices? Have a question about a Checklist item? Looking for a particular "green" building product? Browse the **Green Built Home**Interactive Checklist located at www.greenbuilthome.org for technical details, explanations, and more information.

The Green Built Home **Buyer's Guide** is also a valuable resource. It provides a priority ranking of measures to reduce the environmental impact of home building and lets you know where you might get the best environmental result for the money.

The Green Built Home **Project Guide** outlines environmentally responsible solutions for nine common building and remodeling scenarios such as: **building a new home or addition**, **installing flooring**, **installing a new roof**, **painting a room**, **installing insulation**, **replacing windows**, **re-siding your house**, **remodeling a kitchen or bath**, **and landscaping with native plants**.

Interested in learning more about green new home building? Green Built Home features information and resources for **homeowners and builders of new homes** at www.greenbuilthome.org.

Qualifications:

To qualify as a certified Green Built Home Remodeling Project, each project must earn the minimum number of points outlined in the table below.

Replacements	Projects limited to the replacement of existing elements such as flooring, windows, siding, roofing, mechanical equipment, fixtures, cabinetry, etc.	10 points required
Remodels	Projects that may involve the replacement of existing elements but which also involve the alteration or reconfiguration of existing spaces without adding a new foundation or footings.	30 points required
Additions	New living space is added on a new foundation or footings.	60 points required

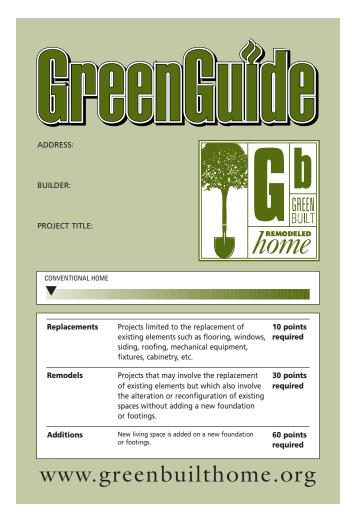
Existing Conditions:

Points cannot be earned for existing conditions, products, materials or systems in Replacement Projects. However, points can be claimed for existing conditions, products, materials or systems in Remodels and Additions. Please contact the program office for clarification.

GreenGuide Label:

A GreenGuide label will be provided for each project certified by the Green Built Home program. This label, similar to the yellow Energy Guide labels found on appliances, will provide the homeowner with information on the number of points earned from the Checklist.

Please enter the point totals for each criteria selected on the line provided and enter the subtotals as directed.



Basic Requirements (no points)

1. ENERGY STAR® APPLIANCES

All new appliances (clothes washer, dishwasher and refrigerator) added or replaced are ENERGY STAR qualified or each appliance performs in the top 50% of its Energy Guide rating. If appliances are not included a list of ENERGY STAR-qualified appliances is provided. For lists of ENERGY STAR rated appliances see www.energystar.gov.

2. EROSION CONTROL:

Contractor or homeowner must submit the erosion control plan required for building permits by the local municipality, or no site disturbance must occur.

3. RECYCLING:

Contractor or homeowner must recycle cardboard and other materials as required by state law.

4. TROPICAL HARDWOODS:

No Luan or other tropical hardwoods (plywood, doors, flooring, etc.) are allowed to be added unless certified by Forest Stewardship Council, Smart Wood or approved "third party" organization.

5. PRESENT "GREEN BUILT HOMEOWNER HANDBOOK" TO HOMEOWNER:

This handbook will be prepared by the GBH program and provided to the contractor or homeowner as part of the home project process.

6. PROVIDE CERTIFICATION PLAQUE AND GREEN GUIDE LABEL:

This wood plaque and label will be prepared by the GBH program and provided to the contractor or homeowner as part of the project registration process.

7. MERCURY THERMOSTATS:

No permanently installed mercury thermostats are allowed. Existing mercury thermostats must be removed and disposed of properly. All thermostats must be programmable set-back models with an "on" switch for furnace fan to circulate air.

RASIC	KEQUIKEIVIEN 15	Suptotai	N/A

	If the project is a REPLACEMENT , it must include a minimum of 10 points from the categories listed below (no points allowed for existing conditions).
	If the project is a REMODEL , it must include a minimum of 30 additional points from the categories listed below (points are allowed for existing conditions).
	If the project if an ADDITION , it must include a minimum of 60 additional points from the categories listed below (points are allowed for existing conditions).
	item is valued at (1) , (2) , (3) , (4) , or (5) points. Please call that apply and note the point totals on the lines ded.
SEC	CTION A: SITING AND LAND USE
	1. (1) Home located within 0.5 miles of a bus stop, bike route, or transit stop.
	2. (1) Home located within 0.5 miles of shopping/offices/retail.
	3. (1) Home located within 0.5 miles of a school.
	4. (1) Patio, porch or deck located on south side of house to create sunny, wind sheltered outdoor space.
	5. (1) Screened porch is provided to create an unconditioned, sheltered outdoor space.
	6. (1-5) Utilize an approach not listed that meets the goals of this section.
SECT	TION A Subtotal
SEC	TION B: LANDSCAPE
	NSERVATION AND STORMWATER NAGEMENT
1 .	(1) Use of redundant straw bale and silt fencing in areas with steep slopes (greater than 12% grade) or areas of concentrated runoff flow if site disturbance occurs.
2 .	(1) Protect on-site storm sewer inlets with straw bales, silt fencing or equivalent measures if site disturbance occurs.
3 .	(1) Save and reuse all site topsoil if site disturbance occurs.
4 .	(1) Trees and natural features on site protected during construction if site disturbance occurs.
5 .	(1) Placement of addition saves east and south lot areas for outdoor use.
\ 6.	(1) Chip and reuse site-cleared wood and brush as mulch.
7.	(1) Wash out concrete trucks in slab or pavement sub-base areas.

8. (1) Balance cut and fill to eliminate earth removal	SECTION C: ENERGY EFFICIENCY
from site if site disturbance occurs.	HOME PERFORMANCE WITH ENERGY STAR
9. (2) Replant or donate live trees from the site.	☐ 1. (4) A Home Performance with ENERGY STAR
☐ 10. (2) Site disturbance limited to within 20 feet of structures and paved areas.	in-home evaluation was conducted prior to work being done.
☐ 11. (1) Permeable materials such as brick pavers, flagstones, porous paving or limestone fines for 40% of all walkways, patios and driveways.	☐ 2. (2) A post-performance evaluation and inspection was conducted after construction.
12. (1) Grass that uses less water such as blue gamma, fescue, or 'no-mow' min. 75% of turf areas.	SITE DESIGN
List type/supplier 13. (1) Native landscape plantings min. 20% of	☐ 3. (2) Addition and/or home oriented with long dimension facing within 15 degrees of south.
non-paved areas.	4. (1) Massing of addition and/or home respects solar
List landscape contractor	access of adjacent properties.
☐ 14. (2) Native landscape plantings min. 40% of non-paved areas. List landscape contractor	☐ 5. (1) Garage sited between house and prevailing winter winds to act as a buffer (garage to the north or west of house).
☐ 15. (3) Native landscape planting min. 60% of	☐ 6. (1) Deciduous tree(s) provided on south side or
non-paved areas. List landscape contractor	evergreens on west side of house such that when
☐ 16. (1) Rainwater recovery from roof for watering, min.	mature they will shade the house. Native species,
50 gal. storage capacity.	min. 2.5" caliper, 3'-0" high.
☐ 17. (3) Infiltration system for rooftop run off (e.g. rain gardens, drain tile, bioswales, ponds, etc.).	 7. (1-5) Utilize an approach not listed that meets the goals of this section. List approach
☐ 18. (1) Edible landscape planting/food garden.	List approach
19. (1) Provide a list of native, non-invasive plants to	INSULATION AND AIR SEALING
homeowners.	☐ 8. (1) Energy heels of 7" or more on trusses.
☐ 20. (1) Limit turf grass other than 'no mow' mixes or prairies to 25% of landscaped area.	☐ 9. (1) Advanced sealing package in addition to basic
☐ 21. (2) No turf grass other than 'no mow' mixes or prairies.	sealing practices (sealing at top and bottom plates, corners and between cavities at penetrations).
22. (1) Provide information to homeowners on how to minimize fertilizer and pesticide use.	☐ 10. (2) Blower door test indicating air leakage reduction of at least 20%.
☐ 23. (1) Installed irrigation system includes a soil moisture or rain sensor or is a drip type system.	☐ 11. (3) Blower door test indicating air leakage reduction of at least 30%.
24. (1) Installed irrigation system is zoned separately for turf and bedding areas.	☐ 12. (4) Blower door test indicating air leakage reduction of at least 40%.
25. (2) Restore damaged ecosystem such as existing prairies or wetlands.	☐ 13. (1) Sill plate sealed with caulk (sill plate to foundation and rim to sill plate).
☐ 26. (1) Participate in a wildlife conservation program.	lacksquare 14. (1) Gaps between can light housings and drywall
☐ 27. (4) Vegetated or "green" roof system, min. 100 sq. ft.	caulked. 15. (1) Gaps between exhaust fan housings and drywall
☐ 28. (1) Provide onsite supervision and coordination	caulked.
during site clearing, grading, trenching, paving, and installation of utilities to ensure that green building measures are implemented.	☐ 16. (1) All penetrations to the exterior are sealed both inside and outside.
☐ 29. (1) Use of recycled materials in lieu of silt fencing.	☐ 17. (2) Can lights in insulated ceilings are sealed and
☐ 30. (1-5) Utilize an approach not listed that meets the goals of this section.	insulated. 18. (3) Temporarily remove attic insulation and seal top
List approach	plates. 19. (2) Insulate existing attic to code.
	☐ 20. (3) Insulate new or existing attic to code.
SECTION B Subtotal	20. (3) insulate new or existing actic to fill. N-50.

1 21.	(4) Fill existing sidewalls to capacity with insulation.	40. ((1) Furnace located to minimize total length of duct
2 2.	(1) Insulate attic knee walls in existing structures.		runs.
2 3.	(1) Insulate floors over basements or crawlspaces in existing structures.	1	(1) Install a 92% or higher efficiency condensing boiler.
1 24.	(1) Insulate rim joists in existing structures.		(1) High efficiency air conditioner or heat pump
2 5.	(1) Insulate attic pull-down or scuttle to min.R-19.	1	(ENERGY STAR qualified, SEER 14+, or COP 4.5+) if A/C provided.
2 6.	(1-5) Utilize an approach not listed that meets the goals of this section.	1	List manufacturer & model #
	List approach	1	(2) No newly added ductwork located in unconditioned space or exterior walls.
GLAZ		1	(1) Ductwork in unconditioned space or exterior walls insulated (R-13 min.).
□ 27.	(1) Windows are ENERGY STAR qualified or have a U value =0.35 (NFRC label). List manufacturer</td <td>45.</td> <td>(1) Duct design complies with Manual D or equivalent.</td>	45.	(1) Duct design complies with Manual D or equivalent.
2 8.	(2) Windows have a U value =0.26 (NFRC label). List manufacturer</td <td></td> <td>(2) New HVAC supplies and returns are fully ducted (no use of building cavities).</td>		(2) New HVAC supplies and returns are fully ducted (no use of building cavities).
2 9.	(1) Windows have an air leakage rating =0.06 cfm/ft.</td <td>1</td> <td>(2) Existing ductwork removed from building cavities.</td>	1	(2) Existing ductwork removed from building cavities.
3 0.	List manufacturer	1	(1) All ductwork joints sealed with mastic or aluminum tape
3 1.	coverings. (1) No metal frame windows in house, including	1	(2) Airflow for each duct run measured and balanced to within 15 cfm of design value.
	basements, unless thermally broken. (1) East facing glass NFRC label solar heat gain	1	(1) High efficiency whole house fan installed with R-38 min. insulated cover.
_ 52.	coefficient (SHGC) less than 0.40. List manufacturer	□ 51. ((1) Two properly supported ceiling fans installed (ENERGY STAR label encouraged). Ceiling fan pre-
□ 33.	(1) West facing glass NFRC label solar heat gain coefficient (SHGC) less than 0.40.	1	wires provided in habitable rooms (min. 2 prewires not including bedrooms).
3 4.	(2) South glass shaded by exterior shading in May,		(2) Heat Recovery Ventilator (HRV) installed. List manufacturer
3 5.	June and July at 12 noon. (1) Use clerestory windows for natural lighting in	1	(3) Energy Recovery Ventilator (ERV) installed. List manufacturer
3 6.	addition or remodeled spaces. (1-5) Utilize an approach not listed that meets the	1	(3) Geothermal heat pump installed. (ENERGY STAR labeled encouraged).
	goals of this section.		List contractor
	List approach	1	(1-5) Zoned HVAC system (1 point per additional zone).
MECH	IANICAL SYSTEMS	□ 56. ((4) No air conditioning.
3 7.	(1) 90%-94% efficiency furnace (ENERGY STAR label encouraged).	1	(1) Whole house electricity monitoring system installed.
	List manufacturer & model #		(1) Document proper sizing of HVAC system using Manual J or equivalent.
□ 38.	(2) 95% or higher efficiency furnace (ENERGY STAR label encouraged). List manufacturer & model #	1	(1) High-efficiency fireplace such as direct vent gas, Rumford, or masonry heater or no fireplace installed. List approach
□ 39.	(2) Furnace is equipped with an electronically commutated motor (ECMs) - (variable speed motor). List manufacturer & model #	9	(1-5) Utilize an approach not listed that meets the goals of this section. List approach

APPLIAN	NCES	INTEG	RATED CLIMATIC DESIGN
Gu	D) Appliances performing in top 10% of the Energy uide rating (score one point for each appliance). dishwasher refrigerator	79.	(4) Passive solar heating design package (includes orientation, south glazing/ floor area ratio, orientation specific low-e tuning, summer shading, and thermal mass design).
	washing machine microwave Other: st	□ 80.	(4) Passive cooling design package (includes orientation, summer shading, thermal mass, attic ventilation, additional ceiling fans, heat recovery ventilation and natural ventilation design).
☐ 63. (1 -	Provide exterior clothesline. Standard in the section of the section. The section is approach is approach is approach in the section.		(1-5) Utilize an approach not listed that meets the goals of this section. List approach
LIGHTIN	IG AND ELECTRICAL SYSTEMS	SECTI	ON C Subtotal
) Light-colored interior walls, ceiling and soffit. Mid one to light color flooring/carpet (min. 75%).	SEC	TION D: MATERIALS SELECTION
4) Install ENERGY STAR qualified light fixtures (min fixtures). I) Furnish five compact fluorescent light bulbs to	EXTE F ☐ 1.	(1) Design added house features to reduce materials consumption (e.g. patios in place of decks).
ho	omeowner. (ENERGY STAR labeled encouraged). Compact or linear fluorescent lighting in place of	2 .	(1) Masonry and stone salvaged or reused. List source
ind	candescent down-lights. Install lighting dimmers, timers, or motion etectors (min. 4 fixtures).	3 .	(1) New masonry and stone regionally produced (within 500 miles). List supplier
Geo. (1)) Motion detector activators or photocells/ timers n all exterior lighting.) Solar powered walkway or outdoor area lighting	4 .	(1) Decks, site furnishings and/or other outdoor structures constructed with sustainable, low-toxicity materials: reused wood, certified sustainable yield
(m	nin. 6 fixtures). Solar tube(s) for interior daylighting.	5 .	wood, or recycled plastic/ wood fiber composites. (1-5) Utilize an approach not listed that meets the goals of this section.
	S) Solar electric (photovoltaic) system installed pts per kW of generation capacity).		List approach
wi ar so th co cle	Provide at least 400 sq.ft. of roof area that is rithin 15 degrees of south and tilting between 20 and 70 degrees from the horizontal for a future plar electric system. The roof area should be less and 5% shaded over an annual basis. Also install a conduit from the attic to the utility panel that is early labeled "future solar electric system wiring" or easy identification at a later date.	☐ 6. ☐ 7. ☐ 8.	(1) Recycled fly ash concrete (min.15% flyash content). List contractor
1 74. (3)) No can lights added in insulated ceiling.	4 9.	(2) Cast in place footing form with integral drainage features.
	Home has an ENERGY STAR Advanced Lighting ackage (ALP).	□ 10	List product
	2) LEDs used in lieu of CFLs or incandescents for eneral, task or accent lighting		(e.g. metal rather than site built wood forms).
	Fuel cell installed for electricity generation (5 pts er 5 kW of generation capacity).	J 11.	(1) Low toxicity form release agents used on concrete form work. List product
	-5) Utilize an approach not listed that meets the oals of this section.	1 2.	(1) Non-asphalt based damp proofing. List product

List approach _

☐ 13. (1) Water based waterproofing system. List product	☐ 31. (2) Structural wood that is regionally grown, milled, and produced (at least 50% of wood used).
☐ 14. (2) Frost protected shallow foundation.	☐ 32. (3) Structural wood from (FSC, Smart Wood or
☐ 15. (1) Reusable foundation bracing not constructed of framing lumber used.	equivalent) certified sustainably managed forests (at least 50% of wood used).
☐ 16. (1) House or addition built on 3'9" foundation walls (90% of foundation walls).	☐ 33. (1) Advanced rim joist insulation (prefabricated insulated rim joist, spray foam insulation, or other similar technique).
☐ 17. (1-5) Utilize an approach not listed that meets the goals of this section.	34. (1-5) Utilize an approach not listed that meets the goals of this section.
List approach	List approach
STRUCTURAL FRAME	
☐ 18. (1) Provide weather protection for stored materials.	ENVELOPE, WALLS AND CEILINGS
☐ 19. (1) No use of 2x10 or greater dimension solid lumber in floor or roof systems.	☐ 35. (1) Large roof overhangs to extend life of siding finishes: 24" horizontal projection min.
20. (1) Use prefabricated insulated headers.	☐ 36. (1) Use of non-sealed insulating glazing or sash designs that allow for insulated glazing unit
21. (1) Engineered wood "I" joists or truss joists used for floors.	replacement without requiring sash replacement.
22. (1) Trusses or "I" joists used for roofs.	37. (1) Fiber-cement or wood composite siding installed (min. 50% of siding used).
☐ 23. (1) Engineered lumber products used for beams,	☐ 38. (2) Recycled content sheathing (min. 50% pre- or
joists or headers.	post-consumer recycled content).
$oxed{\square}$ 24. (1) Finger-jointed studs, engineered stud material, or	List product
plate materials used.	39. (1) Recycled content siding used (min. 50% pre-consumer).
25. (4 points possible) Optimum Value Engineering (O.V.E) advanced framing package (e.g. 24" O.C.	List product
studs, 3 stud corners, etc.) as developed by the	☐ 40. (2) Recycled content siding used (min. 50%
NAHB.	post-consumer).
For every three strategies selected receive 1 pt :	List product
frame greater than 16" centers, single top plate,	41. (1) Recycled content fascia, soffit, or trim (min. 50%
optimized header sizes,	pre-consumer). List product
2'-0" framing module,	42. (2) Recycled content fascia, soffit, or trim
<pre> centralized cutting areas, detailed job-site framing plans,</pre>	(min. 50% post-consumer).
two stud corners,	List product
ladder backing/ drywall clips,	43. (1) Metal siding with long-life factory finish
header hangers, reduced cripples/ jacks,	(min. 25% of siding used).
reduced cripples/ jacks, optimized sheathing,	44. (1) Natural cementitious stucco.
reduced waste factor	45. (1) Continuous drainage plane installed behind siding.
☐ 26. (3) Use of reused timber or framing lumber (min.	46. (3) Vented rain screen behind siding.
25% lumber of lumber used).	☐ 47. (2) Drywall with 90+% recycled-content gypsum.
27. (2) Use of energy efficient 2x4 exterior wall system.	List product
☐ 28. (2) Use of panelized construction.	48. (1) High strength 1/2-inch drywall substituted for 5/8
☐ 29. (4) Use of alternative building systems with significant environmental performance features such	drywall on ceilings.
as SIPS, ICFs, Fasswall, Autoclaved Aerated Concrete. List system	☐ 49. (3) Plywood or other sheathing from (FSC, Smart Wood or equivalent) certified sustainably managed forests (at least 50% of sheathing used).
$oxed{\square}$ 30. (5) Other climate appropriate natural building	50. (2) No vinyl siding, soffit, fascia, trim, or windows.
system such as strawbale. List system	<u></u>

☐ 51. (1) Factory finished wood, fiber cement, or	SUB-FLOOR
composite siding.	☐ 70. (1) Recycled content underlayment (100% of
☐ 52. (1) Siding and exterior trim primed on all sides.	underlayment used).
\square 53. (1) Brick or stone siding on 75% or more of the	List product
home's exterior.	☐ 71. (3) Plywood or other subfloor from (FSC, Smart
☐ 54. (1) Flexible, self adhering rubber flashing installed	Wood or equivalent) certified sustainably managed
around all windows and integrated with drainage	forests.
plane.	☐ 72. (1-5) Utilize an approach not listed that meets the goals of this section.
☐ 55. (1) Insulated sheathing used.	List approach
☐ 56. (1-5) Utilize an approach not listed that meets the	
goals of this section.	FINISH FLOOR
List approach	
	☐ 73. (1) Bamboo flooring installed (min. 75sq.ft).
INSULATION	☐ 74. (1) Cork flooring installed (min. 75sq. ft.).
☐ 57. (1) Recycled content insulation (min. 25% recycled content and min. 50% of insulation used).	☐ 75. (2) Flooring made from reclaimed (recycled) wood (min. 50% of wood flooring).
List product	☐ 76. (2) Recycled content ceramic tile - (min. 50% of tile
☐ 58. (2) Blown/sprayed-in insulation used at walls.	used).
59. (3) Natural insulation (cotton, bio-based foam, etc)	☐ 77. (2) Salvaged stone or masonry flooring.
used (min. 50% of insulation).	\square 78. (1) Recycled content carpet pad (100% of pad used).
☐ 60. (1) Below slab insulation installed.	79. (1) Recycled content carpet - tacked not glued (min.
61. (1) Exterior foundation walls insulated with min. 1"	50% of carpet used).
of foam insulation.	□ 80. (3) Flooring from (FSC, Smart Wood or equivalent)
☐ 62. (2) Exterior foundation walls insulated with min. 2" of foam insulation.	certified sustainably managed forests (min. 50% of wood flooring).
☐ 63. (1) Variable permeance or "smart" vapor retardar	31. (2) No vinyl flooring or base trim.
installed.	□ 82. (2) Reuse existing flooring materials (min. 50% of
☐ 64. (1-5) Utilize an approach not listed that meets the	flooring in areas affected by remodeling).
goals of this section. List approach	□ 83. (1-5) Utilize an approach not listed that meets the goals of this section.
ROOF	List approach
☐ 65. (1) Recycled content roofing material	DOORS SARWITTNY AND TRUE
(min. 25% recycled content).	DOORS, CABINETRY AND TRIM
List product	☐ 84. (1) Recycled content doors or MDF. List manufacturer
☐ 66. (2) Minimum 40 year roofing material.	
☐ 67. (3) Minimum 50 year roofing material including	85. (1) Domestically grown interior wood panel doors.
asphalt, concrete, slate, clay, composition, metal,	□ 86. (1) Finger jointed trim or MDF (min. 75% of trim
rubber or fiberglass.	stock).
\square 68. (3) Plywood, OSB, or other roof decking from (FSC,	□ 87. (1) Domestic hardwood trim (min. 75% of trim stock).
Smartwood or equivalent) certified sustainably	88. (1) Recycled content countertops
managed forests (at least 50% of decking used).	(e.g. Environ, Richlite, Avonite).
☐ 69. (1-5) Utilize an approach not listed that meets the	89. (1) Concrete, regionally produced, or regionally
goals of this section. List approach	quarried countertops.
ыс арргоасп	\square 90. (2) Use of reused hardwood trim, cabinets, and/or
	doors (min. 25% of stock).
	91. (3) Trim from (FSC, Smart Wood or equivalent)
	certified sustainably managed forests (min. 50% of wood trim).

93. (2) Wheat or strawboard materials used in place of particleboard (min. 50% of finish plywood). 94. (1-5) Utilize an approach not listed that meets the goals of this section. List approach 19. (2) Whole house dehumidification system installed. 99. (19. Free-standing, high efficiency, high capacity dehumidifier with built-in heater. 19. (2) Whole house dehumidification system installed. 19. (2) Whole house dehumidification system with blusts and theater. 12. (1) Use formaldehyde deners. 12. (1) Use anortaldehyde and furnace thoroughly after construction. 19. (1) Island Co detector(s). 19. (1) User demtal denor mitigation. 19. (1) User demtal	92.	(3) Finish grade plywood from (FSC, Smart Wood or equivalent) certified sustainably managed forests.	1 7.	(1) Bath fans installed with smooth ducting with short, straight runs.
goals of this section. List approach SECTION D Subtotal	93.	•	1 8.	
SECTION D Subtotal	94.	(1-5) Utilize an approach not listed that meets the	1 9.	(2) Whole house dehumidification system installed.
22. (1) Ventilate the home after each new finish is applied. 32. (1) Install CO detector(s). 33. (2) Garage physically separated from house. 44. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). 45. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. 46. (1) Locked, vented chemical storage cabinet provided outside of living space. 55. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. 66. (1) Locked, vented chemical storage cabinet provided outside of living space. 77. (1) Operable windows on two walls for rooms with two exterior wall surfaces. 88. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. 99. (1) Furnace and for duct mounted electronic air cleaner such as April Aire 5000. 10. (1) Furnace and for duct mounted HEPA filter. 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/ll) or metalized tape. 12. (2) Hydronic heating system (serving min. 50% of conditioned space). 13. (2) Central vacuum system vented to the exterior (excludes garage). 14. (1) ERRGY STAR qualified residential ventilating (bath) fans. 15. (4) House meets American Lung Association Health		-	2 0.	
22. (1) Isolate construction dust. 23. (1) Clean ducts and furnace thoroughly after construction spaces. 24. (1) Install CO detector(s). 25. (1) Solate construction from non-construction spaces. 26. (1) Weasures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). 27. (1) Rough-in venting provided for potential radon mitigation. 28. (1) Uv light in supply duct. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this section. 29. (1-5) Utilize an approach not listed that meets the goals of this s			2 1.	(1) Use non-toxic cleaners.
□ 1. (1) Take measures to avoid air pollution or IAQ problems due to construction dust. □ 2. (1) Isolate construction from non-construction spaces. □ 3. (2) Garage physically separated from house. □ 4. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). □ continuous air barrier separation □ weather-sealed door □ exhaust fan in garage on timer or wired to door opener □ garage ventilated to neutral pressure □ 5. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. □ 6. (1) Locked, vented chemical storage cabinet provided outside of living space. □ 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. □ 8. (1) High-efficiency media air cleaner such as April Aire 2200/250/2400. □ 10. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 2500/250/2400. □ 10. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 12. (2) Hydronic heating system vented to the exterior (excludes garage). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans. □ 15. (4) House meets American Lung Association Health	SECTI	ON D Subtotal	2 2.	
24. (1) Install CO detector(s). 22. (1) Isolate construction from non-construction spaces. 3. (2) Garage physically separated from house. 4. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). 2		-	2 3.	
□ 2. (1) Isolate construction from non-construction spaces. □ 25. (1) Conduct radon or lead testing. □ 3. (2) Garage physically separated from house. □ 26. (1) Washed stone installed under basement slab for potential radon mitigation. □ 4. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). □ 27. (1) Rough-in venting provided for potential radon mitigation. □ 25. (1) Conduct radon or lead testing. □ 26. (1) Washed stone installed under basement slab for potential radon mitigation. □ 26. (1) Washed stone installed under basement slab for potential radon mitigation. □ 27. (1) Rough-in venting provided for potential radon mitigation. □ 28. (1) UV light in supply duct. □ 29. (1-5) Utilize an approach not listed that meets the goals of this section. □ 28. (1) UV light in supply duct. □ 29. (1-5) Utilize an approach not listed that meets the goals of this section. □ 29. (1-5) Utilize an approach not listed that meets the goals of this section. □ 30. (2) Formaldehyde-free insulation. □ 30. (2) Formaldehyde-free insulation. □ 31. (1) GreenGuard or equivalent certified low formaldehyde insulation. □ 31. (1) GreenGuard or equivalent certified low formaldehyde insulation. □ 32. (1) Batt insulation that is encapsulated or otherwise non-irritating. □ 35. (2) Non-toxic spray foam insulation. □ 34. (1) Urea formaldehyde-free sub-floor and underlayment material. □ 35. (2) Use of hard surface floors	山 1.	· · · · · · · · · · · · · · · · · · ·	2 4.	
3. (2) Garage physically separated from house. 3. (2) Garage physically separated from house. 4. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). 27. (1) Rough-in venting provided for potential radon mitigation. 28. (1) UV light in supply duct. 29. (1-5) Utilize an approach not listed that meets the goals of this section. List approach 10. (1) Locked, vented chemical storage cabinet provided outside of living space. 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. 8. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. 10. (1) Furnace and /or duct mounted HEPA filter. 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. 12. (2) Hydronic heating system (serving min. 50% of conditioned space). 13. (2) Central vacuum system vented to the exterior (excludes garage). 14. (1) ENERGY STAR qualified residential ventilating (bath) fans 15. (4) House meets American Lung Association Health	□ 2.			
□ 4. (1) Measures taken to reduce carbon monoxide infiltration using one of the following four methods (maximum of one point). □ 27. (1) Rough-in venting provided for potential radon mitigation. □ continuous air barrier separation weather-sealed door exhaust fan in garage on timer or wired to door opener garage ventilated to neutral pressure □ 29. (11-5) Utilize an approach not listed that meets the goals of this section. List approach □ 5. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. □ (1) Locked, vented chemical storage cabinet provided outside of living space. □ 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. □ 30. (2) Formaldehyde-free insulation. □ 8. (1) High-efficiency media air cleaner such as April Aire 2000. □ 32. (11) Batt insulation that is encapsulated or otherwise non-irritating. □ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 33. (2) Non-toxic spray foam insulation. □ 10. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 35. (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). □ 10. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape.		spaces.		(1) Washed stone installed under basement slab for
(maximum of one point).		(1) Measures taken to reduce carbon monoxide	2 7.	(1) Rough-in venting provided for potential radon
continuous air barrier separation weather-sealed door exhaust fan in garage on timer or wired to door opener garage ventilated to neutral pressure □ 5. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. □ 6. (1) Locked, vented chemical storage cabinet provided outside of living space. □ 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. □ 8. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. □ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 10. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 10. (1) Furnace and /or duct mounted HEPA filter. □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model # □ 15. (4) House meets American Lung Association Health		-	2 8.	_
exhaust fan in garage on timer or wired to door openergarage ventilated to neutral pressure grage ventilated to neutral pressure				
to door opener garage ventilated to neutral pressure 5. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. 6. (1) Locked, vented chemical storage cabinet provided outside of living space. 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. 8. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. 10. (1) Furnace and /or duct mounted HEPA filter. 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. 12. (2) Hydronic heating system (serving min. 50% of conditioned space). 13. (2) Central vacuum system vented to the exterior (excludes garage). 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #				~
 □ 5. (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. □ 6. (1) Locked, vented chemical storage cabinet provided outside of living space. □ 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. □ 8. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. □ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 200/2250/2400. □ 10. (1) Furnace and /or duct mounted HEPA filter. □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #		to door opener		List approach
 □ (1) Locked, vented chemical storage cabinet provided outside of living space. □ (1) Operable windows on two walls for rooms with two exterior wall surfaces. □ (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. □ (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ (1) Furnace and /or duct mounted HEPA filter. □ (1) High-efficiency media air cleaner such as April Aire 5000. □ (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ (2) Hydronic heating system (serving min. 50% of conditioned space). □ (2) Central vacuum system vented to the exterior (excludes garage). □ (2) Central vacuum system vented to the exterior (excludes garage). □ (2) Natural material carpet (wool, sisal, etc) - tacked not glued (100% of carpet used). □ (3) (2) Formaldehyde-free insulation. □ (3) (2) Formaldehyde-free insulation. □ (3) Light insulation that is encapsulated or otherwise non-irritating. □ 33. (2) Non-toxic spray foam insulation. □ 34. (1) Urea formaldehyde-free sub-floor and underlayment material. List product □ 35. (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). □ 36. (3) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 90% of floor area). □ 37. (2) Natural material carpet (wool, sisal, etc) - tacked not glued (100% of carpet used). □ 39. (1) Natural material carpet padding (natural rubber, wool, 100% of padding used). □ 40. (1) Carpet and Rug Institute Green Label IAQ label on all carpet used. 		manage contileted to manitual manage us		
 G. (1) Locked, vented chemical storage cabinet provided outside of living space. J. (1) Operable windows on two walls for rooms with two exterior wall surfaces. B. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. J. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. J. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. J. (2) Hydronic heating system (serving min. 50% of conditioned space). J. (2) Central vacuum system vented to the exterior (excludes garage). J. (3) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #			IAO N	ΛΑΤΕRIAI S
 ☐ 7. (1) Operable windows on two walls for rooms with two exterior wall surfaces. ☐ 8. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. ☐ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. ☐ 10. (1) Furnace and /or duct mounted HEPA filter. ☐ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. ☐ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). ☐ 13. (2) Central vacuum system vented to the exterior (excludes garage). ☐ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	5 .	(1) Foundation drainage system tied to sealed sump		
Aire 2200/2250/2400. □ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 10. (1) Furnace and /or duct mounted HEPA filter. □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #		(1) Foundation drainage system tied to sealed sump pit for potential radon mitigation.(1) Locked, vented chemical storage cabinet	☐ 30.	(2) Formaldehyde-free insulation.(1) GreenGuard or equivalent certified low
 □ 9. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. □ 10. (1) Furnace and /or duct mounted HEPA filter. □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	\(\) 6.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with 	☐ 30. ☐ 31.	(2) Formaldehyde-free insulation.(1) GreenGuard or equivalent certified low formaldehyde insulation.(1) Batt insulation that is encapsulated or otherwise
List product □ 10. (1) Furnace and /or duct mounted HEPA filter. □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. 	☐ 30. ☐ 31. ☐ 32.	(2) Formaldehyde-free insulation.(1) GreenGuard or equivalent certified low formaldehyde insulation.(1) Batt insulation that is encapsulated or otherwise non-irritating.
 □ 11. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. 	☐ 30. ☐ 31. ☐ 32. ☐ 33.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and
V.O.C. mastic (< 30g/l) or metalized tape. □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air 	☐ 30. ☐ 31. ☐ 32. ☐ 33.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material.
 □ 12. (2) Hydronic heating system (serving min. 50% of conditioned space). □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8. □ 9.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. 	☐ 30. ☐ 31. ☐ 32. ☐ 33. ☐ 34.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product
 □ 13. (2) Central vacuum system vented to the exterior (excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8. □ 9.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low 	□ 30. □ 31. □ 32. □ 33. □ 34.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product
(excludes garage). □ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. 	□ 30. □ 31. □ 32. □ 33. □ 34.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). (3) Use of hard surface floors such as wood,
□ 14. (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of 	□ 30.□ 31.□ 32.□ 33.□ 34.□ 35.□ 36.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). (3) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 90% of floor area).
(bath) fans List manufacturer & model #	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of conditioned space). 	□ 30.□ 31.□ 32.□ 33.□ 34.□ 35.□ 36.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). (3) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 90% of floor area). (2) Natural linoleum with low toxic adhesives and
☐ 40. (1) Carpet and Rug Institute Green Label IAQ label on all carpet used.	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11. □ 12. □ 13.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of conditioned space). (2) Central vacuum system vented to the exterior (excludes garage). 	□ 30. □ 31. □ 32. □ 33. □ 34. □ 35. □ 36.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product
	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11. □ 12. □ 13.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of conditioned space). (2) Central vacuum system vented to the exterior (excludes garage). (1) ENERGY STAR qualified residential ventilating (bath) fans 	□ 30. □ 31. □ 32. □ 33. □ 34. □ 35. □ 36. □ 37.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product
TIOUSE STATIONARDS.	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11. □ 12. □ 13.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of conditioned space). (2) Central vacuum system vented to the exterior (excludes garage). (1) ENERGY STAR qualified residential ventilating (bath) fans 	□ 30. □ 31. □ 32. □ 33. □ 34. □ 35. □ 36. □ 37. □ 38. □ 39.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product (2) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 50% of floor area). (3) Use of hard surface floors such as wood, concrete, tile or linoleum (min. 90% of floor area). (2) Natural linoleum with low toxic adhesives and backing in place of vinyl flooring. (2) Natural material carpet (wool, sisal, etc) - tacked not glued (100% of carpet used). (1) Natural material carpet padding (natural rubber, wool, 100% of padding used). (1) Carpet and Rug Institute Green Label IAQ label
House standards. 41. (1) Carpet and Rug Institute Green Label +Plus IAQ label on all carpet used.	□ 6. □ 7. □ 8. □ 9. □ 10. □ 11. □ 12. □ 13.	 (1) Foundation drainage system tied to sealed sump pit for potential radon mitigation. (1) Locked, vented chemical storage cabinet provided outside of living space. (1) Operable windows on two walls for rooms with two exterior wall surfaces. (1) High-efficiency media air cleaner such as April Aire 2200/2250/2400. (1) Furnace and /or duct mounted electronic air cleaner such as April Aire 5000. (1) Furnace and /or duct mounted HEPA filter. (2) All ductwork joints sealed with water based, low V.O.C. mastic (< 30g/l) or metalized tape. (2) Hydronic heating system (serving min. 50% of conditioned space). (2) Central vacuum system vented to the exterior (excludes garage). (1) ENERGY STAR qualified residential ventilating (bath) fans List manufacturer & model #	□ 30. □ 31. □ 32. □ 33. □ 34. □ 35. □ 36. □ 37. □ 38. □ 39.	 (2) Formaldehyde-free insulation. (1) GreenGuard or equivalent certified low formaldehyde insulation. (1) Batt insulation that is encapsulated or otherwise non-irritating. (2) Non-toxic spray foam insulation. (1) Urea formaldehyde-free sub-floor and underlayment material. List product

timers or humidistats.

42. (1) Hardboard content doors with MDI or non-toxic binders.List supplier/product	SECTION F: PLUMBING AND WATER CONSERVATION
43. (1) All cabinets, shelves, and countertops made with formaldehyde free materials: solid wood, formaldehyde free particleboard or MDF (medium	 1. (1) Front loading, horizontal axis clothes washer. 2. (1) Select bathroom faucets with GPM less than code or install low flow aerators.
density fiberboard), metal with natural or baked enamel factory finish.	☐ 3. (1) Select kitchen faucets with GPM less than code or install low flow aerators.
List supplier /product 44. (1) All exposed particleboard containing	4. (1) Select showerheads with GPM less than code.
formaldehyde sealed with non-toxic sealer.	5. (1) Manifold plumbing system with PEX tubing.
☐ 45. (1-5) Utilize an approach not listed that meets the	 6. (2) Composting toilet. 7. (2) Rough-in for future greywater recovery system
goals of this section. List approach	for domestic use.
<u></u>	☐ 8. (3) Greywater recovery system installed.
IAQ FINISHES AND ADHESIVES	9. (1) No garbage disposal.
☐ 46. (1) Low V.O.C paints (<150 g/l) used throughout. One	10. (2) No PVC piping for drains, wastes and vents.
point each: interior primer,	☐ 11. (1) All showers are equipped with only one showerhead.
interior finish, exterior primer, exterior finish	☐ 12. (1) Dual flush or ultra low flow toilet with GPF less than code.
List supplier /product 47. (2) Non-Toxic zero V.O.C. Paints used throughout	☐ 13. (1) Passive or loop hot water delivery system installed at farthest location from water heater (lines
(AFM Safecoat or equivalent). Two points each:	must be insulated).
interior primer,	WATER HEATING ☐ 14. (1) Gas water heater with energy factor of more
interior finish, exterior primer,	than .62 for direct vented.
exterior finish	List manufacturer & model #
List supplier /product	
48. (1) Water based, "low V.O.C." adhesives used throughout. One point each:	☐ 15. (1) Water heater located within 20 pipe feet of dishwasher and clothes washer.
<pre> construction adhesive, cove base adhesive,</pre>	☐ 16. (1) All other fixtures within 20 pipe feet of water heater or provide heat trap.
PVC adhesive, thinset mortar,	☐ 17. (2) Insulate all hot water lines to minimum R-4.
other List supplier /product	☐ 18. (1) Insulate hot and cold water pipes 3 feet from the hot water heater.
 □ 49. (1) Water-based urethane finishes on wood floors. □ 50. (1) Water-based finishes on woodwork. 	☐ 19. (1) Passive or loop hot water delivery system installed at farthest location from water heater.
☐ 51. (1) Supply workers with V.O.C. safe masks, if using high V.O.C. materials.	☐ 20. (2) On-demand (tankless) hot water delivery system. List manufacturer
☐ 52. (1-5) Utilize an approach not listed that meets the goals of this section.	21. (1) Water heater heat pump. List manufacturer
List approach	22. (3) Drain water heat recovery unit installed.
SECTION E Subtotal	23. (2) Combined high efficiency domestic hot water/ space heating system.
JECTION E JUDICIAI	I and the second

2 4	(2) Provide south roof area for future solar domestic hot water heating system (min. 30 sq. ft. within 15 degrees of south with the panels 20-60 degrees from	7.	(1) Dispose of non-recyclable hazardous wastes at legally permitted facility. List waste:
	the horizontal) and plumbing rough-in for solar water heating system (separate cold water supply plumbed to roof and hot water return plumbed to	8.	(1) Install garage recycling center for homeowner use.
	water heater).	9.	(1) Built-in kitchen recycling center to include two or more bins.
L 25	. (4) Active solar domestic hot water heating system installed (min. 50% of water heating load).	1 0.	(1) Provide kitchen scrap compost bin.
	. (1) Water heater timer installed.	11.	(2) Track and prominently post waste reduction results on site.
□ 27	. (1-5) Utilize an approach not listed that meets the goals of this section.	1 2.	(1) On site grinding of wood construction debris.
2 8	(1-5) Utilize an approach not listed that meets the goals of this section.	13.	(1) Document substantial design strategies to reduce waste from construction/demolition.
	List approach	1 4.	(2) Design for disassembly, reuse, and recyclability.
SECT	ION F Subtotal	15.	(1) Donate excess or salvaged materials to a non-profit organization or charity.
SEC	TION G: WASTE REDUCTION, CYCLING AND DISPOSAL	1 6.	(5) Disassemble existing buildings and reuse or recycle the building materials (deconstruction) instead of demolishing (at least 75% landfill diversion).
1 .	(1) Posted job site recycling plan.	1 7.	(1-5) Utilize an approach not listed that meets the
2 .	(1) Recycle or reuse job site waste, 1 point for each		goals of this section.
	material category: ■ glass, aluminum cans and plastic bottles		List approach
	(required by state law, no point)	SECTI	ON G Subtotal
	■ cardboard (required by state law, no point)	520	
	asphalt roofing (75% landfill diversion) wood scraps (75% landfill diversion)	SEC	TION H: BUILDER OPERATIONS
	pallets (75% landfill diversion)	l _	(1) At least 80% of projects built to Green Built
	metal (75% landfill diversion)		Home standards annually.
	gypsum wall board (75% landfill diversion) brick and block (75% landfill diversion)	2 .	(1) At least one recent action taken to visibly market
	other		Green Built Home program.
	list:		List action, location, and date
4 3.	(1) Salvage or reuse old building materials (on or off site), 1 point for each material category:appliances (75% reuse)cabinets, millwork, or trim (75% reuse)	3.	(1) Conduct homeowner orientation during final walk-through (point out Green Built features, how to maintain them, operate them, etc).
	wood floors (75% reuse)doors (75% reuse)	4.	(1) At least one recent training event conducted for subcontractors or staff.
	bathtubs or sinks (75% reuse) other (75% reuse) list:	5.	(3) Provide homeowner with guaranteed energy bills at least 25% below the average of that for a typical home of the same square footage and features.
4.	(1) Obtain products from suppliers that use recyclable or reusable packaging or arrange to take back their packaging. List supplier(s):	a 6.	(1) Builder attendance at one recent green building related educational event. List event, sponsor, and date:
□ 5.			(1-3) Builders own idea for innovation, education,
1 6.	(2) Require subcontractors (contract language) to participate in waste reduction and recycling efforts.		and encouraging homeowners to take care of their home in an environmentally friendly way (Ex.

cleaning products).

List idea:	SECTION I: EFFICIENT USE OF SPACE
■ 8. (1) Establish a "Green Team." Identify employees and/or subcontractors, their roles and how they relate to various phases of green development and building.	☐ 1. (1) Above Grade finished and conditioned space 2000-1750 sq.ft.
	2. (2) Above Grade finished and conditioned space 1749-1500 sq.ft.
9. (1) Provide homeowner with information and enrollment materials for the local utility's renewable energy program.	☐ 3. (3) Above Grade finished and conditioned space 1499-1250 sq.ft.
☐ 10. (2) Provide the homeowner with the first year enrollment costs of 100% of electricity provided by	4. (4) Above Grade finished and conditioned space 1249-1000 sq.ft
the local utility's renewable energy program.	☐ 5. (5) Above Grade finished and conditioned space <1000 sq.ft.
☐ 11. (1-5) Use suppliers whose operations and business practices include environmental management system concepts (the product, plant, or company must be ISO 14001 or equivalent certified). 1 point per supplier, min, 50% of purchased material coming from each supplier. List supplier(s):	☐ 6. (1) Lot size less than 7,500 sq.ft.
	 7. (1) Provide an accessory dwelling unit (garage apartment, granny flat, etc.)
	☐ 8. (2) Home designed for flexibility to allow for changing uses in the future (rough-ins for future bathrooms, finish flooring runs under partitions,
☐ 12. (3) Use products that are Cradle to Cradle Certified. 3 point per product.	reconfigurable spaces, etc.)
 □ 13. (3) Builder's own operations and business practices include environmental management system concepts (the builder must be Green Tier, ISO 14001 or equivalent certified). 	9. (2) Home utilizes incremental design techniques with documented provisions to expand to meet future growing needs (roof trusses designed for additions, room layouts configured for additions, etc.)
☐ 14. (5) Perform and review a life cycle assessment (LCA) to compare the environmental effects of building	☐ 10. (1) Living space provided in a finished basement ☐ 11. (1) Living space provided in a finished attic.
materials and home designs. 15. (1) Homeowner provided with an operations and maintenance manual.	☐ 12. (1) Bonus room provided over garage.
	☐ 13. (1) Home is a unit in a co-housing development.
☐ 16. (1-5) Utilize an approach not listed that meets the goals of this section.	☐ 14. (1) Home is a unit in a multifamily housing development.
List approach	☐ 15. (1) Indoor spaces are provided that are common to multiple units.
SECTION H Subtotal	☐ 16. (1) Home shares a common driveway with at least one other building.
	☐ 17. (1-5) Utilize an approach not listed that meets the goals of this section.
	List approach
	SECTION I Subtotal

BASIC REQUIREMENTS Subtotal	N/A
SECTION A Subtotal	
SECTION B Subtotal	
SECTION C Subtotal	
SECTION D Subtotal	
SECTION E Subtotal	
SECTION F Subtotal	
SECTION G Subtotal	
SECTION H Subtotal	
SECTION I Subtotal	
TOTAL	

I certify that the preceding information is complete and accurate and that all requirements for a certified Green Built Home Remodeling Project have been met or exceeded.

Date





WISCONSIN ENVIRONMENTAL INITIATIVE

16 N. Carroll St. Suite 840 Madison, WI 53703

Phone: 608-280-0360 Fax: 608-280-0361

E-mail: contact@greenbuilthome.org
Web site: www.greenbuilthome.org

www.wi-ei.org

The printing of the Green Built Home Checklist is funded by Madison Gas and Electric Design and production donated by Hoot Communications



Printing donated by Madison Gas and Electric





Green Built Home was founded in 1999 by Wisconsin Environmental Initiative in partnership with the Madison Area Builders Association.

Green Built Home is administered throughout the state of Wisconsin and reaches thousands of homebuyers and builders through our collaborations with Builders Associations and other affiliated organizations.

©2007