



# Statewide Checklist

Version 3.0  
Effective July 1, 2006

**Builder Name/Company:** \_\_\_\_\_

**Project Title/Address:** \_\_\_\_\_

**MINIMUM POINT REQUIREMENTS FOR EACH SECTION:**

Site Opportunities:.....7	Indoor Air Quality Opportunities:.....15
Water Opportunities:.....9	Materials Opportunities:.....18
Building Envelope:.....10	Bonus Opportunities:.....2
Comfort Systems:.....18	Community Checklist (where available ):.....5
Appliances and Renewables:.....10	

**RATING SCALE**

*Minimum 100 Total pts required for certification*

- 100-150 points: Certified
- 151-200 points: Bronze certified
- 201-250 points: Silver certified
- 251 + points: Gold certified

**For full item and documentation descriptions, item intents, and additional item information please refer to the HBH Reference Manual (available online at [www.healthybuilthomes.org](http://www.healthybuilthomes.org))**

**USE OF THIS CHECKLIST**

- At the start of the project **check each item you plan to complete with an "x"** and **each item you may complete with an "m"** in the
  - **'Intended' column (abbreviated "I")**. This can be done by hand or in Excel. Items that will not be attempted are simply left blank. The **"P" column stands for "Passed"** and the **"N" column stands for "Not completed" or "did Not pass"**.
  - The 'Score' column is broken down into **'Pass'** for items that have been completed and **'Intend'** for items that are planned or intended in the project. (Items marked 'm' are also counted, to mark an item as maybe but not have it counted use a different letter or symbol)
  - The builder should maintain **one hard copy of this checklist to collect signatures** from the Responsible Parties able to sign off on items (often the builder himself) and HBH approved inspectors when they have verified an item through inspection.

**DOCUMENTATION REQUIRED TO RECEIVE CREDIT FOR CHECKLIST ITEMS**

- **Documentation** should be submitted to the NC HBH Statewide Partner unless you are served by a HBH Community Partner, in which case all Documentation is given to the Community Partner
- Providing a **"Signature"** as documentation for a checklist item indicates that the party signing is accepting responsibility that the item has been completed in full and that all reasonable care has been taken to meet the stated intent of that checklist item. A photo(s) will be accepted as the documentation for signature items if the photo clearly indicates item implementation/completion.
- An **"Inspection"** for a checklist item must be performed by an approved NC HBH inspector. Currently the only approved HBH inspectors are HBH Statewide and Community partner staff and HERs raters that have completed HBH training. The required documentation for a completed inspection is the signature of the inspector next to the item on the project's checklist. A photo(s) will be accepted as the documentation for inspection items if the photo clearly indicates item implementation/completion.
- Many checklist items can be verified at the required **"Final Walkthrough" (abbreviated FW)** conducted in the completed home by an HBH inspector. Several items require both a FW verification as well as some other form of documentation.
- **"Signature or Inspection"** indicates that **either** a signature by a Responsible Party **or** an inspection by an approved HBH inspector are required to receive credit for the item; **not both**
- **"FW; Signature or Inspection"** indicates that a Final Walkthrough inspection **and either** a signature by a Responsible Party **or** an inspection by an approved HBH inspector are required for the item.

**NOTES**

*Feel free to ask for clarification at any time, we are here to help you achieve a NC HealthyBuilt Home.*

To contact the NC HealthyBuilt Homes Program you can email the NC HBH Coordinator at: [hbhcoordinator@ncsu.edu](mailto:hbhcoordinator@ncsu.edu)



Type "x" in the checkbox column to calculate your score (excel spreadsheet version only)				
P	Prerequisites (Required)	Points	Documentation	Signature/Comments
1	Must comply with all federal, state and local government requirements including but not limited to: NC Building Code, NC Energy Code, local development regulations and other local regulations.	Required	Plans (site and floor); Copy of Certificate of Occupancy (CO)	
2	Home must be qualified by EPA Energy Star program.	Required	Copy of Energy Star certificate	
3	Must perform a blower door test and meet minimum standard of 0.35 CFM50/sf of a building envelope's surface area or 3.5 ACH/50Pa	Required	Blower Door test results	
4	Seal all ductwork joints and penetrations permanently with low toxic mastic or aerosolized sealant. All air distribution systems must be tested for leakage and must not exceed 5% of the home's heated square footage when measured in CFM/25Pa of leakage.	Required	Duct leakages test results	
5	All building space heating and cooling equipment must be sized according to heating and cooling load calculations using ANSI/ACCA Manual J 8th Edition or equivalent; Cooling equipment installed must be within 6,000 Btus of cooling calculations.	Required	Signature by party responsible for Manual J calculations	
6	Combustion equipment including (but not limited to) furnaces and water heaters, must be located outside the conditioned space unless the equipment is sealed combustion or power vented. Unvented fireplaces are not permitted. Gas logs having a fan that blows any portion of the combustion gases into the living space are not permitted. One carbon monoxide (CO) detector shall be installed per 1,000 sq. feet of living space (minimum 1 per floor) in all houses with an attached garage or with any combustion appliance.	Required	FW	
7	A ventilation system is required that provides makeup air from a clean source that is equal to 7.5 cfm per bedroom plus an additional 7.5 cfm plus .01 cfm per sq.ft.	Required	FW <u>and</u> Signature	
8	For an attached garage, provide air barrier between conditioned living space and garage. Include weatherstripping at all penetrations, sealed drywall joints and other measures as necessary.	Required	FW <u>and</u> Signature	
9	Must be enrolled in the statewide NC HealthyBuilt Homes program to become a "Certified (or better) HealthyBuilt Home".	Required	Enrollment form <u>and</u> fee completed.	

## Notes:

Type "x" or "m" in the I column to calculate your score (Excel version only)										
P	N	I	Site Opportunities (minimum 7 points)			Pts	Score		Documentation	Signature/Comments
							Pass	Intend		
<b>Soil/Amendments</b>										
			1	Develop an erosion control site plan.	2			Signature		
			2	Use of redundant mulch, compost, or straw bales for erosion control.	3			Inspection		
			3	Temporary planting of cover crops on disturbed land areas within two weeks of completing rough grading activities.	2			Inspection		
<b>Vegetation</b>										
			4	Trees and natural features on site protected during construction (min 25% of development or lot).	3			Inspection		
			5	Tree planting (minimum 12 trees per acre of developed land)	4			FW		
			6	Provide tree preservation plan.	2			FW <u>and</u> Signature		
			7	Individual trees fenced at drip line (1 point per tree, maximum of 5 trees)	enter pts			Inspection		
			8	Preserve or create Backyard Wildlife Habitats using the National Wildlife Federation certification or equivalent.	2			Signature		
			9	Grind stumps and limbs for mulch.	2			Signature <u>or</u> Inspection		
<b>Development</b>										
			10	Mill cleared logs.	2			Signature <u>or</u> Inspection		
			11	Sidewalk connects house to business district (max 2 miles)	5			FW		
			12	Use B20 blend bio-diesel for 90% of all diesel fueled construction equipment.	4			Signature <u>and</u> name of Fuel Provider		
<b>Subtotal for Site section (min 7 pts) -----</b>						<b>0</b>	<b>0</b>			

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)									
P	N	I	Water Opportunities (minimum 9 points)		Pts	Score		Documentation	Signature/Comments
						Pass	Intend		
<b>Outdoor</b>									
			1	Drought resistant guidebook given to homeowner.	1			Signature	
			2	Provide a site specific drought resistant planting plan for homeowner / potential buyer.	2			Signature	
			3	Permeable materials used for driveways.	4			FW	
			4	Permeable materials used for 50% walkways and patios.	2			FW	
			5	Install vegetated roof system to reduce impervious surface:					
				25% of roof is vegetated roof system	2				
				50% of roof is vegetated roof system	4			FW	
				75% of roof is vegetated roof system	6				
				100% of roof is vegetated roof system	8				
			6	Installed landscape is drought resistant for non-paved area:					
				50% of non-paved area	4			FW and Signature	
				100% of non-paved area	8				
			7	Rainwater harvested and directed toward landscaping needs.	4			FW and Signature	
			8	Install rain gardens, bio-retentions basin, or infiltration strips to reduce storm water impacts.	3			FW	
			9	Installed irrigation system is zoned separately for turf and bedding areas. (must demonstrate system to homeowner)	2			FW and Signature	
			10	Installed irrigation system includes a soil moisture or rain sensor, or other irrigation efficiency device. (must demonstrate system to homeowner)	2			FW and Signature	
			11	Greywater irrigation system is installed where allowed by code. (must demonstrate system to homeowner)	9			FW and Signature	
<b>Indoor</b>									
			12	Kitchen faucet fitted with aerator restricting flow to 2.2 gpm.	1			FW	
			13	All bathroom faucets fitted with aerator restricting flow to 2.0 gpm.	1			FW	
			14	Toilets are high efficiency toilets (max 1.45 gpf) or dual flush (1.6/0.8 gpf) (1 point per toilet, max 3 points)	enter pts			FW	
			15	All showerheads rated with a maximum 2.25 gal/min flow or less.	1			FW	
			16	Clothes washer is an Energy Star labeled product.	4			FW	
			17	Dishwasher is an Energy Star labeled product or meets/exceeds Energy Star criteria.	2			FW	
			18	Install whole house water filter system (NSF certified).	4			FW	
			19	Under sink water filter system installed (1 point per system, maximum of 3 points)	enter pts			FW	
<b>Subtotal for Water section (min 9 pts) -----</b>					<b>0</b>	<b>0</b>			

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)									
Building Envelope (minimum 10 points)				Pts	Score		Documentation	Signature/Comments	
P	N	I			Pass	Intend			
			1	Exceeds IECC by 50 % (HERS index ≤ 50)	5			HERS report on actual finished conditions	
			2	Energy Bill Guarantee program. Examples include, but are not limited to System Vision and Environments for Living.	5			Copy of document indicating enrollment	
<b>Air Infiltration</b>									
			3	Must perform a blower door test and meet min standard of 0.25 cfm50/sf of surface area or 2.5 ACH/50Pa	3			Blower Door test results	
			4	Must perform a blower door test and meet min standard of 0.15 cfm50/sf of surface area or 1.5 ACH/50Pa	5			Blower Door test results	
<b>Insulation</b>									
			5	Rigid insulation installed as a thermal break at the slab edge (R5, 6" minimum, vertically installed).	2			Signature <u>or</u> Inspection	
			6	Provide rigid insulation under entire slab:					
				Minimum R5	2			Signature <u>or</u> Inspection	
				Minimum R8	3				
			7	Provide rigid insulation at minimum of 2ft from slab edge for the entire perimeter of the slab (min R5)	1			Signature <u>or</u> Inspection	
			8	Insulated concrete or masonry basement walls (continuous floor to ceiling R13)	2			Signature <u>or</u> Inspection	
			9	Insulated foundation walls with rigid R-10 foam insulation from footer to top of wall.	3			Signature <u>or</u> Inspection	
			10	Sealed crawl space as per NC Building Code .	5			FW; Signature <u>or</u> Inspection	
			11	Insulate framed floor over unconditioned space (insulation in continuous contact with subfloor; R21 Zones 6-7; R25 Zones 8-9, 11).	2			FW; Signature <u>or</u> Inspection	
			12	Framing Efficiency Package for wood stud construction with at least 4 of the following components (requires a framing inspection by a third party):	5				
				1. Insulated headers, minimum R-10.					
				2. 2-stud corner with drywall clips or alternate framing detail					
				3. Insulated framing corners					
				4. T-walls with drywall clips or alternative framing detail.					
				5. Insulated T-walls (exterior/interior wall intersection)					
				6. Window rough openings eliminate jack stud.					
				7. Non-structural headers in exterior non-load bearing walls.					
				8. Non-load bearing wall studs @ 24-in. centers.					
				9. Single top plate with stacked (in-line) framing.					
				10. Reduced framing, interior partitions (24. O.C. studs at interior non-bearing walls).					

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Building Envelope (min 10 pts) →CONTINUED	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
<b>Insulation →continued</b>								
			13 R-2.5 or better insulated exterior wall sheathing on 75% or more exterior wall area.	3			Signature <u>or</u> Inspection	
			14 Exterior wall stud cavities insulated (R19 Zones 6-7; R21 Zones 8-9, 11).	3			Inspection	
			15 Pre-cast Autoclaved Aerated Concrete used as exterior wall material. (R10, min./use 10" thickness)	5			FW; Signature <u>or</u> Inspection	
			16 Insulated Concrete Form wall system. (R20, min.)	6			FW; Signature <u>or</u> Inspection	
			17 Structural Insulated Panels:					
			Roof--R30, min.	3				
			Floor--R25, min.	4			Signature <u>or</u> Inspection	
			Exterior walls--R14, min.	4				
			Exterior walls--R20, min.	6				
			18 Energy (raised) heels of 6" or more on trusses to provide for proper insulation installation over top plates.	2			FW; Signature <u>or</u> Inspection	
			19 Flat ceilings (R38-Zones 6-7 where R-30 is required; R42 in Zones7-8 where R-38 is required; R48 in Zones 9,11).	2			Signature <u>or</u> Inspection	
			20 Vaulted and tray ceilings (R38 in Zones 6-7 where R-30 is required; R42 in Zones7-8 where R-38 is required; R48 Zones 9,11).	2			Signature <u>or</u> Inspection	
			21 Attic kneewall stud cavities insulated with either R19 (2x6 studs) with air barrier toward attic or R13 with R2.5 or better sheathing towards attic.	3			Signature <u>or</u> Inspection	
			22 Attic kneewall stud cavities insulated with R13 with R5 sheathing towards attic.	4			Signature <u>or</u> Inspection	
			23 Install attic ceiling radiant heat barrier facing attic space.	2			FW; Signature <u>or</u> Inspection	
			24 Water heater with insulating blanket installed to water heater manufacturer's specifications.	1			FW; Signature <u>or</u> Inspection	
			25 Insulate hot water pipes to R-4 in unconditioned spaces.	2			FW; Signature <u>or</u> Inspection	
<b>Window and Doors</b>								
			26 Low-E windows NFRC rated U value of .40 or less, minimum 75% of units (NFRC Energy Performance sticker MUST REMAIN INTACT on window for inspection)	1			FW <u>or</u> Inspection	
			27 Low-e windows NFRC rated U value of .32 or less, minimum 75% of units (NFRC Energy Performance sticker MUST REMAIN INTACT on window for inspection)	2			FW <u>or</u> Inspection	
			28 Exterior doors (includes door to garage) insulated to R5, or greater.	2			Signature <u>or</u> Inspection	
			29 10 year warranty on all insulated glazing.	1			Signature <u>or</u> Inspection	
<b>Subtotal for Building Envelope section (min 10 pts)-----</b>						<b>0</b>		

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Comfort Systems (min 18 pts)	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
<b>Passive Solar Heating and Cooling Strategies</b>								
			1 One Ceiling fan per 750 ft2 of conditioned space. (each sized appropriately for the space, no more than 5 fans required)	1			FW	
			2 Provide overhang, between one and two feet above south windows, depth as follows below (may include gutter as part of the overhang): Mountain region: 1'-8" Piedmont region: 2'-0" Coastal region: 2'-4"	3			FW	
			3 Strategies to reduce heat gain and/or heat loss, such as exterior mounted sunscreens, operable insulated window coverings, or operable awnings.	5			FW	
			4 Home orientation allows solar heating (long dimension faces w/in 20 degrees East or West of solar south) and reduces overheating potential.	7			FW	
			5 East facing glazing less than 3% of total conditioned floor area.	2			FW <u>or</u> Inspection	
			6 West facing glazing less than 2% of total conditioned floor area.	2			FW <u>or</u> Inspection	
			7 South facing glazing between 6-7% of total conditioned floor area.	5			FW <u>or</u> Inspection	
			8 Passive solar heating:				FW <u>and</u> Copy of passive solar contribution calculations (worksheets available upon request) <i>See Reference Manual</i>	
			20% of heating needs provided through passive solar design	10				
			35% of heating needs provided through passive solar design	15				
			50% of heating needs provided through passive solar design	20				
<b>Mechanical Comfort Systems--Ductwork</b>								
			9 Duct blaster test indicates leakage of less than 3% of the home's heated square footage when measured in CFM / 25Pa of leakage.	5			Duct Blaster test results	
			10 Ducts located within thermal envelope. (minimum 90%)	4			FW	
			11 Duct system shall be sized, designed, and installed in accordance with latest ANSI/ACCA Manual D.	3			Signature <u>or</u> Inspection	
			12 No building cavity used as part of forced-air distribution system	2			Signature <u>or</u> Inspection	
			13 Airflow measured and balanced within 10% of ACCA Manual J room by room load calculations.	3			Signature <u>or</u> Inspection	
			14 No ducts in exterior walls or vaulted ceilings.	3			Signature <u>or</u> Inspection	
			15 Ducts outside conditioned space insulated to a minimum of R-8 (supply) or R-4 (return).	2			FW; Signature <u>or</u> Inspection	
			16 Transfer air grills or insulated jump-ducts or return-air ducts are provided in every bedroom.	2			FW; Signature <u>or</u> Inspection	
			17 Rigid metal supply plenum.	2			FW <u>or</u> Inspection	
			18 Ductless Heating/Cooling system designed and installed to meet building heating and cooling load as per ANSI/ACCA Manual J; equipment installed must be w/in 6000 Btus of calculations. (the building envelope was not compromised and maintenance instructions will be provided to homeowner)	10			FW <u>and</u> Signature ( <i>See Reference Manual</i> )	

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Comfort Systems (min 18 pts) → CONTINUED	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
<b>Mechanical Comfort Systems--Controls</b>								
			19 Programmable thermostat. (with written instructions and demonstration given to homeowner)	1			FW <u>and</u> Signature	
			20 Controls to provide separate heating and/or cooling to multiple zones from a single system. (with written instructions and demonstration given to homeowner)	3			FW <u>and</u> Signature	
<b>Mechanical Comfort Systems--Equipment</b>								
			21 Furnace at least 90% efficient	6			FW <u>or</u> Inspection	
			22 Boiler at least 87% efficient	6			FW <u>or</u> Inspection	
			23 SEER 14 or higher cooling equipment (min 75% of conditioned space)	3			FW <u>or</u> Inspection	
			24 HSPF 8.5 or higher heat pump (min 75% of conditioned space).	3			FW <u>or</u> Inspection	
			25 Outdoor thermostat for heat pump.	2			FW <u>or</u> Inspection	
			26 Air handler located within conditioned space (all units)	2			FW <u>or</u> Inspection	
			27 Cooling equipment has non-HCFC refrigerant	3			Signature <u>or</u> Inspection	
			28 Energy recovery ventilator (ERV) or heat recovery ventilator (HRV) installed.	7			FW; Signature <u>or</u> Inspection	
			29 Geothermal (ground source) heating and cooling system.	12			FW; Signature <u>or</u> Inspection	
			30 In-floor heating system.	10			FW; Signature <u>or</u> Inspection	
			31 Responsible 3rd Party performs or reviews and approves Manual J calculations	2			Signature	
<b>Subtotal for Comfort Systems section (min 18 pts)-----</b>					<b>0</b>	<b>0</b>		

## Notes:

Type "x" or "m" in the I column to calculate your score (Excel version only)									
P	N	I	Appliances, Lighting, Renewables (min 10)		Pts	Score		Documentation	Signature/Comments
						Pass	Intend		
<b>Appliances</b>									
			1	Refrigerator is an Energy Star labeled product or meets or exceeds Energy Star criteria.	2			FW <u>and</u> E.S. emblem or model number should be accessible.	
			2	Refrigerator is super energy efficient, rated to use less than 360 kWh per year.	4			FW <u>and</u> E.S. emblem or model number should be accessible.	
			3	Gas clothes dryer with electronic ignition.	1			FW	
			4	Gas cook top with electronic ignition.	2			FW	
			5	If appliances are not included, a list of energy efficient appliances is (will be) provided to homebuyer.	1			Signature	
			6	High efficiency or tankless water heater minimum Energy Factor as follows: Gas (EF): 40 Gal = 0.61 , 60 Gal = 0.57 , 80 Gal = 0.53 Electric (EF): 40 Gal = 0.93 , 50 Gal = 0.92 , 80 Gal = 0.89	3			FW	
			7	Geothermal water heating.	2			FW <u>and</u> Signature	
			8	Shower drain waste heat recovery device.	1			Signature <u>or</u> Inspection	
<b>Lighting</b>									
			9	Recessed light fixtures use compact fluorescents (1 pt per light, max.3 pts)	enter pts			FW	
			10	Airtight recessed can fixtures. (min 90% of recessed can fixtures)	2			Signature <u>or</u> Inspection	
			11	Fluorescent light bulbs utilized in:				FW	
				50% of light fixtures	3				
				75% of light fixtures	4				
				100% of light fixtures	5				
			12	Switchable automatic outdoor lighting controls. (e.g. motion/photo sensor).	1			FW	

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
Appliances, Lighting, Renewables (min 10)				Pts	Score		Documentation	Signature/Comments
P	N	I	→-CONTINUED		Pass	Intend		
<b>Renewables</b>								
			13 Solar hot water system	12			FW; Signature <u>or</u> Inspection	
			14 Rough-in for future solar hot water system (Must insulate pipes and provide appropriate wiring for controls)	3			Signature <u>or</u> Inspection;	
			15 Photovoltaic (solar electric) panel for powering solar hot water circulation pump.	3			FW <u>and</u> Signature	
			16 Photovoltaic (solar electric) system provides:				FW <u>and</u> a printout of PV Solar Estimator results from FindSolar.com <u>or</u> The DC nameplate size of system (kW) <u>and</u> Signature ( <a href="#">See Reference Manual</a> )	
			10% of annual electricity use <u>or</u> 1.0 kW (DC max) PV system	10				
			25% of annual electricity use <u>or</u> 2.5 kW (DC max) PV system	20				
			50% of annual electricity use <u>or</u> 5.0 kW (DC max) PV system	40				
			75% of annual electricity use <u>or</u> 7.5 kW (DC max) PV system	60				
			100% of annual electricity use <u>or</u> 10.0 kW (DC max) PV system	80				
			17 Battery back-up system for photovoltaic system.	10			FW <u>and</u> Capacity of system <u>and</u> Signature	
			18 Photovoltaic (solar electric) powered well water pumping system.	6			FW <u>and</u> Signature	
			19 Active solar thermal heating system provides:				FW <u>and</u> Copy of space heating calculations <u>and</u> Signature ( <a href="#">See Reference Manual</a> )	
			25% of space heating needs	10				
			50% of space heating needs	20				
			75% or more of space heating needs	30				
			20 South roof area suitable for future solar hot water or PV collectors facing within 30° East or West of solar South	2			FW	
			21 Wind Turbine provides:				FW <u>and</u> Copy of Energy analysis ( <a href="#">See Reference Manual</a> )	
			25% of the home's annual electricity use	20				
			50% of the home's annual electricity use	40				
			22 Micro-hydro system provides:				FW <u>and</u> Copy of Energy analysis ( <a href="#">See Reference Manual</a> )	
			25% of the home's annual electricity use	20				
			50% of the home's annual electricity use	40				
			23 Sealed-combustion solid fuel (bio-mass based) burning stove with outside combustion air.	3			FW <u>and</u> Signature	
			24 Provide information on the NC GreenPower Program.	1			Signature	
			25 Buyer enrolls for one year in the GreenPower program for estimated energy use. Buyer purchases amounts based on the number of bedrooms in the home (note: houses less than 1500 sf may use the 1 bedroom enrollment figure):	5			Copy of NC GreenPower enrollment form signed by the homebuyer.	
			1 bedroom 100 kWh (1 block per month at \$4 each)					
			2 bedroom 200 kWh					
			3 bedroom 400 kWh					
			4 bedrooms 600 kWh					
			5 bedrooms or more 800 kWh					
			26 Utility release signed by homeowner granting HBH program access to utility bills for 1 year.	3			Waiver signed by the party whose name is on the utility bill	
<b>Subtotal for Appliances, Lighting, Renewables section (min 10 pts)-----</b>					<b>0</b>	<b>0</b>		

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Indoor Air Quality (min 15 pts)	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
			1 House meets American Lung Association Health House standards or complies with Energy Star Indoor Air Package Specification.	15			Copy of documentation indicating compliance	
<b>Structural Air Quality</b>								
			2 Attached garage is isolated from house by extensive air-sealing so that when the house is depressurized by 50 Pascals the garage to house pressure is at least 49 Pascals	4			Pressure test results indicating compliance	
			3 Detached garage in lieu of attached garage	5			FW	
			4 Capillary break between foundation and framing	1			Signature <u>or</u> Inspection	
			5 Drainage board for below grade walls	2			Signature <u>or</u> Inspection	
			6 Continuous foundation drain at outside perimeter edge of footing	2			Signature <u>or</u> Inspection	
<b>Appliance Air Quality</b>								
			7 Filters rated MERV 9 or greater installed on forced air systems. System pressure must be adjusted to perform with the higher efficiency filter installed.	2			FW <u>and</u> Signature	
			8 Carbon monoxide detector installed in mechanical equipment area.	1			FW <u>and</u> Signature	
			9 Bath exhaust fan measured to be exhausting 50 cfm, minimum, to the outside (all full baths).	1			FW; Signature <u>or</u> Inspection	
			10 Bath exhaust fan with a low sone rating of 1.5 or less and measured to be exhausting 50 cfm, minimum, to the outside (all full baths).	3			FW; Signature <u>or</u> Inspection	
			11 Ducts protected from dirt and debris until construction is completed.	2			FW; Signature <u>or</u> Inspection	
			12 Automatic bath fan controls for full baths (e.g. timer/humidistat).	1			FW	
			13 Attached garage has exhaust fan (min 100 cfm) controlled by motion sensor or timer.	2			FW	
			14 Radon/soil gas vent system installed.	3			FW; Signature <u>or</u> Inspection	
			15 Central dehumidification system installed.	3			FW <u>and</u> Signature	
			16 Filtered fresh air supply ventilation system designed for 12 month operation.	3			FW	
			17 Radon test of home prior to occupancy and results given to homeowner	2			Signature	
			18 Kitchen range hood or downdraft vented to exterior exhausting a minimum of 100 cfm. Intentional make-up air must be provided if rated greater than 350 cfm.	3			FW; Signature <u>or</u> Inspection	
			19 Install a whole house HEPA filter and provide maintenance information to homeowner	6			FW; Signature <u>or</u> Inspection	

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Indoor Air Quality (min 15 pts) →CONTINUED	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
<b>IAQ Material Use</b>								
			20 Zero formaldehyde OSB (PMDI binder only) used in subfloor.	2			Signature	
			21 Formaldehyde-free particle board/MDF used for cabinets.	2			Signature	
			22 Formaldehyde-free particle board/MDF used for shelving/countertops.	2			Signature	
			23 All surfaces of any particle board product are sealed to prevent off gassing.	1			Signature	
			24 Paints and finishes with low to zero VOC content. Standard is less than 50 grams/liter of VOCs for flat coatings and 150 grams/liter of VOCs for non-flat coatings (Green Seal standard GS-11).	2			Signature	
			25 Use non-toxic paints as defined by Green Seal standard GS-11.	4			Signature <u>or</u> Inspection	
			26 Allow VOCs to dissipate prior to dwelling occupancy. Air should be exhausted to outside for one week minimum.	2			Signature <u>or</u> Inspection	
			27 Only low toxicity, solvent free adhesives used throughout that meet or exceed Green Seals Standard for Commercial Adhesives (GS-36) .	2			Signature <u>or</u> Inspection	
			28 Use low VOC stains and finishes on all wood floors and wood work.	2			Signature <u>or</u> Inspection	
			29 Use water-based urethane finishes on wood floors.	2			Signature <u>or</u> Inspection	
			30 Use low VOC carpet certified by the Carpet & Rug Institute.	1			Signature	
			31 No use of permanently installed carpeting in the home.	3			Final Walkthrough	
			32 Ceramic tile installed with low toxic adhesives (maximum 130 g/ VOCs as per Green Seal Standard GS-36) and plasticizer-free grout.	1			Signature <u>or</u> Inspection	
			33 100% Formaldehyde-free insulation throughout house.	2			Signature <u>or</u> Inspection	
			34 Zero formaldehyde OSB (PMDI binder only) sheathing.	3			Signature <u>or</u> Inspection	
			35 Termite treatment approved by the NC Dept of Agriculture that uses low toxicity chemicals or eliminates chemical termite treatments. All termite treatments approved by the NC Dept. of Agriculture are listed online at <a href="http://www.agr.state.nc.us/str-pest/Termiticide_List.html">www.agr.state.nc.us/str-pest/Termiticide_List.html</a> .	4			Signature	
<b>Subtotal for Indoor Air Quality section (min 15 pts)-----</b>					<b>0</b>	<b>0</b>		

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)									
P	N	I	Materials Opportunities (min 18 pts)		Pts	Score		Documentation	Signature/Comments
						Pass	Intend		
			1	House does not exceed 2500 square feet of conditioned area (excluding crawl space).	8			FW	
			2	House does not exceed 2000 square feet of conditioned area (excluding crawl space).	16			FW	
			3	House does not exceed 1500 square feet of conditioned area (excluding crawl space).	24			FW	
<b>Construction Material Waste</b>									
			4	Recycle construction site waste:				Need calculations from waste hauler [total lbs recycled/sf]. May use letter stating [% recycled of total waste hauled] for calculation of [total lbs recycled].	
				Recycle jobsite waste min 1lb per sf of conditioned space	3				
				Recycle jobsite waste min 2lbs per sf of conditioned space	5				
				Recycle jobsite waste min 3lbs per sf of conditioned space	7				
			5	Recycle specific materials that have known markets (99%):				Signature <u>or</u> Inspection	
				Drywall (recycle or grind and spread on site)	2				
				Recycle wood waste (or grind and spread on site)	3				
				Recycle metal waste	1				
				Recycle cardboard waste	1				
				Recycle plastic(s) waste	1				
				Recycle shingle waste	1				
			6	Prohibit burying construction waste on site.	1			Signature <u>or</u> Inspection	
			7	Central, organized cutting area for project site.	2			Signature <u>or</u> Inspection	
			8	Donation of excess materials or re-use of materials (min \$500/job).	3			Signature <u>or</u> Inspection	
			9	Job site framing plan with locations of studs, joists, and roof structure with cut list.	3			Signature <u>or</u> Inspection	
<b>Exterior/Structural System Materials</b>									
			10	Concrete with fly ash (min 25% fly ash) for slab/floor.	2			Name of Supplier <u>and</u> Signature	
			11	Recycled concrete or glass cullet used for aggregate in concrete.	2			Name of Supplier <u>and</u> Signature	
			12	Dimensional or engineered lumber from <i>third-party certified sustainably harvested sources</i> used in:				Signature <u>or</u> Inspection	
				Floor framing members	4				
				Wall framing members	3				
				Roof framing members	3				
			13	Continuous foundation termite flashing.	1			FW; Signature <u>or</u> Inspection	
			14	Engineered alternative replaces large dimension solid lumber (2x10 or greater) in 90% or more of various structural systems (i.e. trusses, joists):				FW; Signature <u>or</u> Inspection	
				Floor structural system(s)	3				
				Roof structural system(s)	2				

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)									
Materials Opportunities (min 18 pts) →CONTINUED				Pts	Score		Documentation	Signature/Comments	
					P	N			I
<b>Exterior/Structural System Materials ---&gt;continued</b>									
			15	Use engineered lumber for 90% or greater of wall framing members. Includes finger-jointed studs.	2			Signature <u>or</u> Inspection	
			16	Use engineered alternatives to wood framing for 90% or greater of all structural systems <i>(cannot be taken in conjunction with items 14 and 15)</i> .	7			FW; Signature <u>or</u> Inspection	
			17	All headers are steel (with thermal break) or engineered wood.	1			Signature <u>or</u> Inspection	
			18	Install window and door flashings at all exterior openings. Install as recommended by the window manufacturer, in conjunction with the weather resistant barrier manufacturer.	2			Signature <u>or</u> Inspection	
			19	Stucco, with drainage plane, on 50% or more of exterior wall area.	3			FW; Signature <u>or</u> Inspection	
			20	Exterior cladding (min 3 sides with 40-year product life warranty or masonry).	1			FW; Signature <u>or</u> Inspection	
			21	Back and edge-primed siding and trim.	2			Signature <u>or</u> Inspection	
			22	Indigenous stone (within 300 miles) on 50% or more of exterior wall area.	4			FW; Signature <u>or</u> Inspection	
			23	Wood siding is 100% from third-party certified sustainably harvested sources, 50% or more of exterior wall area.	2			FW; Signature <u>or</u> Inspection	
			24	Fiber cement siding on 50% or more of exterior wall area.	1			FW	
			25	Recycled and/or recovered-content siding (minimum 50% pre- or post-consumer) on 50% or more of exterior wall area.	2			FW; Signature <u>or</u> Inspection	
			26	All beams are steel, engineered wood, or trusses.	1			Signature <u>or</u> Inspection	
			27	Fiber cement or engineered wood exterior trim:					
				Fascia	1			FW	
				Soffit	1				
				Other exterior trims	1				
			28	Recycled-content roofing material.	3			FW	
			29	Light roof color (tile or metal). Light Reflectance Value (LRV) of .50 or greater for roofs with a slope >2:12 or .65 or greater for low slope roofs <2:12.	2			FW; Signature <u>or</u> Inspection	
			30	Provide metal roof drip edge.	1			FW	
			31	Roof gutters/downspouts discharge water min 5 feet from foundation.	1			FW	
			32	Covered entry ways above all doors; minimum 2' deep, maximum 2' above door	2			FW	
			33	Recycled-content insulation:					
				Minimum 25% recycled content	1			Signature <u>or</u> Inspection	
				Minimum 75% recycled content	2				

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
Materials Opportunities (min 18 pts) →CONTINUED				Pts	Score		Documentation	Signature/Comments
P	N	I			Pass	Intend		
<b>Exterior/Structural System Materials ---&gt;continued</b>								
			34	HCFC-free rigid foam insulation.	1			Signature <u>or</u> Inspection
			35	Outdoor structures, decking and landscaping materials:	2			FW; Signature <u>or</u> Inspection
				Made from recycled materials. (min. 40%)				
				Made from third-party certified sustainably harvested lumber (min. 40%)	3			
			36	Specify salvaged, reclaimed or refurbished materials for 10% of structural material.	5			Signature <u>or</u> Inspection
			37	Use engineered (includes finger-jointed) plate materials.	2			Signature <u>or</u> Inspection
			38	Provide 34" wide doors to all habitable rooms and all hallways shall be at least 42" clear, finished.	3			FW
			39	Provide one accessible bathroom on the main floor with 1/2" sheet good blocking for future accessory installations.	3			FW; Signature <u>or</u> Inspection
<b>Interior Materials</b>								
			40	Install regionally obtained salvaged or reclaimed materials for min. 25% of floors and interior trim	4			FW; Signature <u>or</u> Inspection
			41	Use alternative underlayment product (no Lauan):	3			FW; Signature <u>or</u> Inspection
				Natural cork / 100% recycled or recovered content underlayment used				
				Padding containing 50-100% recycled content	2			
			42	Natural fiber carpet made with natural latex rather than SB latex backing.	2			FW <u>and</u> Signature
			43	Natural linoleum in place of any vinyl sheet flooring or vinyl composition tile, with low toxic adhesives or backing.	3			FW
			44	Install min. 25% of flooring manufactured from rapidly renewable resource material (engineered product is acceptable).	2			FW; Signature <u>or</u> Inspection
			45	Install 3rd party certified sustainably harvested wood flooring.	3			FW; Signature <u>or</u> Inspection
			46	Install 3rd party certified sustainably harvested interior trim	3			FW; Signature <u>or</u> Inspection
			47	Interior paints or finishes with recycled-content.	1			Signature <u>or</u> Inspection
			48	Engineered interior trim--Finger-jointed and/or MDF trim.	1			Signature <u>or</u> Inspection
			49	Recycled and/or recovered content gypsum wallboard.	2			Signature <u>or</u> Inspection
			50	No Lauan doors (tropical hardwood).	1			Signature <u>or</u> Inspection
			51	Doors made from third-party certified sustainably harvested wood.	2			Signature <u>or</u> Inspection
			52	Recycled and/or recovered content doors.	2			Signature <u>or</u> Inspection
			53	100% agricultural waste or 100% recycled wood particleboard/MDF for shelving/countertops.	3			FW; Signature <u>or</u> Inspection
<b>Subtotal of points for Materials section (18 pts min)-----</b>					<b>0</b>	<b>0</b>		

**Notes:**

Type "x" or "m" in the I column to calculate your score (Excel version only)								
P	N	I	Bonus Opportunities (min 2 pts)	Pts	Score		Documentation	Signature/Comments
					Pass	Intend		
			1 Built-in kitchen recycling center with two or more bins.	3			FW	
			2 Provide local recycling contact.	1			Signature	
			3 Provide household hazardous waste resources.	1			Signature	
			4 Environmental checklist provided to subcontractors, as applicable to the project.	4			Copy of document	
			5 Markets NC HealthyBuilt Homes program.	3			Marketing Activities	
			6 Provides environmental features checklist for walk through to owner.	3			Copy of checklist provided <u>and</u> Signature	
			7 Home safety certification.	1			FW ( <a href="#">See Reference Manual</a> )	
			8 Universal Design Integration (must complete all 6 items). 1. No step entrance (1/2" max threshold) with weather protection. Avoid ramps unless they are short, gently sloped (1' in 20'), integrated, and preferably covered. 2. Materials #38 (also receive points for the Materials item) 3. Key function areas on a reachable and useable level: a) Top of kitchen counters and stove no more than 34" above floor. b) Front controls on stove and oven. c) Kitchen and bathroom sink no more than 34" high, plumbing allows for knee space d) Front loading washer and dryer 4. Maneuverable kitchen and bathroom layout: a) 60" turning diameter in kitchen and in at least one bathroom on main floor b) Clear space (3') in front and to one side of toilet c) Toilet centerline 18" from any wall, cabinet, or tub on either side of the toilet 5. Materials #39 (also receive points for the Materials item) 6. Reachable and usable switchable controls: a) Light switches, thermostat controls (center line) 44"-48" above the floor b) Power outlets 18"-24" above the floor c) Reachable electrical panel (top no more than 54" above floor and 30" x 40" clear floor in front)	5			FW: all items Signature <u>or</u> Inspection for item 5 ( <a href="#">See Reference Manual for details of item descriptions and detailed resources</a> )	
			9 Innovation points - Builder submits specifications for innovative products or design (max 10 pts awarded per innovation)	enter pts			varies	
			10 Builder is enrolled in Community HealthyBuilt Homes Program	2			Enrollment Form	
<b>Subtotal of points for Bonus section (min 2 pts) -----</b>					<b>0</b>	<b>0</b>		

**Notes:**

<b>PROJECT SUMMARY</b>	<b>Completed Items</b>	<b>Intended Items (with 'maybes')</b>	<b>Intended Items (no 'maybes')</b>
<b>Prerequisites</b>	<b>NOT COMPLETE</b>	n/a	n/a
<u>Site (7 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Water (9 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Energy: Building Envelope (10 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Energy: Comfort Systems (18 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Energy: Appliances, Lighting, and Renewables (10 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Indoor Air Quality (15 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Materials (18 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<u>Bonus (2 pts)</u>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Overall Score for Home</b>	<b>0</b>	<b>0</b>	<b>0</b>

Minimum total points needed to become a HealthyBuilt Home is **100**

DATE OF FINAL WALKTHROUGH:

<b>RATING SCALE</b>
<b>100-150</b> points: Certified
<b>151-200</b> points: Bronze certified
<b>201-250</b> points: Silver certified
<b>251+</b> points: Gold certified

Notes: