



# Single-Family New Construction Self-Certification Checklist

**Project Address** 15749 greenwood ave N, 15751 greenwood ave N, 15753 greenwood ave N, Shoreline, WA 98133

**Company Name** Martha Rose Construction

Check items you will be including in this project to qualify for a BUILT GREEN™ star rating. **Version 2007**

Number	Possible Points	CREDITS	Point Totals	Comments
<b>TWO-STAR REQUIREMENTS (100 points minimum)</b>				
	required	All ★ items	★	
	required	Program Orientation (one time only)	★	
	required	Section 1: Build to "Green" Codes/Regulations and Program Requirements	★	
	required	Earn 75 additional points from Sections 2 through 5, with at least 6 points from each Section	★	
	required	Attend a Built Green™ approved workshop within past 12 months prior to certification	★	
<b>THREE-STAR REQUIREMENTS (180 points minimum)</b>				
	required	Meet 2-Star requirements plus point minimum	★	
	required	Achieve 10% of minimum point requirements in each section	★	
<b>FOUR-STAR REQUIREMENTS (250 points minimum)</b>				
	required	Meet 3-Star requirements plus point minimum	★	
	required	3 <sup>rd</sup> party verification required (See reference)	★	
Site & Water	required	No zinc galvanized ridge caps, copper flashing or copper wires for moss prevention (2-35)	★	
Site & Water	required	Landscape with plants appropriate for site topography and soil types, emphasizing use of plants with low watering requirements [drought tolerant] (2-39)	★	
Site & Water	required	Use the most efficient aerator available for the faucets used (2-44 and 2-45)	★	
Energy	required	Energy Star Homes or equivalent required (See action item 3-3)	★	
IAQ	required	Use low toxic/low VOC paint on all major surfaces (except for PVA primer which is currently not available) (4-32)	★	
IAQ	required	Ventilate with box fans in windows blowing out during drywall sanding and new wet finish applications (4-9)	★	
Materials	required	Practice waste prevention and recycling and buy recycled products (5-1)	★	
	required	<b>Choose one of the following:</b>	★	
		Provide built in walk-off matt and shoe storage area (4-76)	x	
IAQ		Use plywood and composites of exterior grade or with no added urea formaldehyde for interior uses (4-25)		
IAQ		Use high efficiency pleated filter of MERV 12 or better, or HEPA (4-53b)		
IAQ		Install sealed combustion heating and hot water equipment (4-63)	x	
<b>FIVE-STAR REQUIREMENTS (500 points minimum)</b>				
	required	Meet 4-Star requirements plus point minimum	★	
Site & Water	required	Minimum of 125 points earned for Site & Water	★	
Site & Water	required	Amend disturbed soil with compost to a depth of 10 to 12 inches to restore soil environmental functions (2-15)	★	
Site & Water	required	Use pervious materials for at least one-third of total area for driveways, walkways, and patios (See action item 2-21)	★	
Site & Water	required	Limit use of turf grass to 25% of landscaped area (2-37)	★	no grass
Site & Water	required	Avoid soil compaction by limiting heavy equipment use to building footprint and construction entrance (2-4)	★	
Site & Water	required	Preserve existing native vegetation as landscaping (2-5)	★	
Site & Water	required	Retain 30% of trees on site (2-6)	★	
Energy	required	Minimum R-26 for overall wall insulation (3-4)	★	
Energy	required	Maximum average U-value for all windows of 0.30 ACH (3-10)	★	
Energy	required	Advanced framing with double top plates (3-17)	★	
Energy	required	Pre-wire for future PV (3-74)	★	
Energy	required	75% minimum Energy Star light fixtures (3-5)	★	yes
Energy	required	<u>Alternate:</u> In Lieu of above energy requirements demonstrate home energy performance 30% beyond code per action item 3-1	★	
IAQ	required	Detached or no garage OR garage air sealed from house with automatic exhaust fan (4-21)	★	detached
IAQ	required	Use plywood and composites of exterior grade or formaldehyde free (for interior use) (4-25)	★	yes
Materials	required	Achieve a minimum recycling rate of 70% of waste by weight	★	
Materials	required	Use a minimum of 10 materials with recycled content	★	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>Section One: Build to "Green" Codes/Regulations and Program Requirements</b>				
1-1	required	Meet Washington State Water Use Efficiency Standards	★	
1-2	required	Meet Stormwater/Site Development Standards	★	
1-3	required	Meet Washington State Energy Code	★	
1-4	required	Meet Washington State Ventilation/Indoor Air Quality Code	★	
1-5	required	Provide Owner with Operations and Maintenance Kit	★	
1-6	required	Prohibit Burying Construction Waste	★	
1-7	required	Do Not Dispose of Topsoil in Lowlands or Wetlands	★	
1-8	required	When Construction is Complete, Leave No Part of the Disturbed Site Uncovered or Unstabilized	★	
1-9	required	Dispose of Non-Recyclable Hazardous Waste at Legally Permitted Facilities	★	
1-10	required	Prepare Jobsite Recycling Plan and Post On Site	★	
1-11	required	2 - 3 Stars: Install CO Detector (Hardwire Preferred) for All Houses with a Combustion Device or Attached Garage	★	
1-12	required	4 - 5 Stars: Install CO Detector (Hardwire Required) for All Houses with a Combustion Device or Attached Garage	★	
1-13	required	Conform to the House Size Matrix (Square Feet Limit Refers to Conditioned Space)	★	
<b>SECTION ONE TOTALS</b>			<b>SECTION ONE TOTALS</b>	<b>Required</b>
<b>SECTION TWO: SITE AND WATER</b>				
<b>SITE PROTECTION</b>				
<b>Overall</b>				
2-1	10	Build on Infill Lot to Take Advantage of Existing Infrastructure, Reduce Development of Virgin Sites	10	
2-2	10	Build in a Built Green™ Development	10	
2-3	3-5	Use Low Impact Foundation System, Such as PIN Systems or Post and Pier, for at least 50% of the Foundation		
			<b>Subtotal</b>	<b>20</b>
<b>Protect Site's Natural Features</b>				
2-4	3	Avoid Soil Compaction by Limiting Heavy Equipment Use to Building Footprint and Construction Entrances		
2-5	3	Preserve Existing Native Vegetation as Landscaping		
2-6	4	Retain 30% of Trees On Site	4	see attachment
2-7	4	Retain (or Add) Deciduous Trees South of House		
2-8	4	Do Not Build Near Wetlands, Shorelines, Bluffs, and Other Critical Areas	4	
2-9	2	If Building Near Wetlands, Shorelines, Bluffs, and Other Critical Areas, Preserve & Protect Beyond Code		
2-10	5-10	Set Aside Percentage of Buildable Site to be Left Undisturbed	2	
			<b>Subtotal</b>	<b>10</b>
<b>Protect Natural Processes On--Site</b>				
2-11	2	Install and Maintain Temporary Erosion Control Devices That Significantly Reduces Sediment Discharge from the Site Beyond Code Requirements	2	
2-12	3	Use Compost to Stabilize Disturbed Slopes	3	
2-13	3	Balance Cut and Fill, While Maintaining Original Topography		
2-14	4	Limit Grading to 15 Feet All Around, Except for Driveway Access		
2-15	4	Amend Disturbed Soil with Compost to a Depth of 10 to 12 Inches to Restore Soil Environmental Functions	4	
2-16	2	Replant or Donate Removed Vegetation for Immediate Reuse		
2-17	2	Use Plants Donated from Another Site	2	
2-18	3	Grind Land Clearing Wood and Stumps for Reuse	3	
2-19	3	Use a Water Management System That Allows Groundwater to Recharge	3	
			<b>Subtotal</b>	<b>17</b>
<b>Impervious Surfaces</b>				
2-20	7	Design to Achieve Effective Impervious Surface Equivalent to 0% for 5 Acres and Above; <10% for Less Than 5 Acres	7	
2-21	3	Use Pervious Materials for At Least One-Third of Total Area for Driveways, Walkways, Patios	3	
2-22	10	Bonus Points: Install Vegetated Roof System (e.g. Green-Roof) to Reduce Impervious Surface		
2-23	10	Bonus Points: Construct No Impervious Surfaces Outside House Footprint	10	
			<b>Subtotal</b>	<b>20</b>
<b>Eliminate Water Pollutants</b>				
2-24	4	Protect Topsoil On Site for Reuse	4	
2-25	1	Wash Out Concrete Trucks into Storage Containers		
2-26	1	Establish and Post Clean Up Procedures for Spills to Prevent Illegal Discharges		
2-27	1	Reduce Hazardous Waste Through Good Jobsite Housekeeping	1	
2-28	4	Provide an Infiltration System for Rooftop Runoff	4	
2-29	2	Construct Tire Wash, Establish and Post Clean Up Protocol for Tire Wash		
2-30	2	Use Slow-Release Organic Fertilizers to Establish Vegetation	2	
2-31	2	Use Less Toxic Form Releasers		
2-32	3	Use Non-Toxic or Low-Toxic Outdoor Materials for Landscaping (e.g. Plastic, Least-Toxic Treated Wood)	3	
2-33	4	Phase Construction so that No More Than 60% of Site Is Disturbed at a Time and to Prevent Adverse Impacts On Adjoining Properties or Critical Areas		
2-34	5	No Clearing or Grading During Wet Weather Periods		
2-35	2	No Zinc Galvanized Ridge Caps, Copper Flashing, or Copper Wires For Moss Prevention	2	
			<b>Subtotal</b>	<b>16</b>

Number	Possible Points	CREDITS	Point Totals	Comments
<b>WATER PROTECTION</b>				
<b>Outdoor Conservation</b>				
2-36	2	Mulch Landscape Beds with 2 Inches of Organic Mulch		
2-37	5	Limit Use of Turf Grass to 25% or Less of Landscaped Area		
2-38	10	Bonus Points: No Turf Grass	10	
2-39	5	Landscape with Plants Appropriate for Site Topography and Soil Types, Emphasizing Use of Plants with Low Watering Requirements (Drought Tolerant)	5	
2-40	3	Plumb for Greywater Irrigation		
2-41	2	Sub-Surface or Drip Systems Used for Irrigation		
2-42	10	Install Landscaping That Requires No Potable Water for Irrigation Whatsoever After Initial Establishment Period (Approximately 1 Year)	10	
2-43	1-15	Install Rainwater Collection System (Cistern) for Reuse	15	
		<b>Subtotal</b>	<b>40</b>	
<b>Indoor Conservation</b>				
2-44	1	Select Bathroom Faucets with GPM Less than Code	1	
2-45	1	Select Kitchen Faucets with GPM Less than Code	1	
2-46	1	Select High Performance Low-Flush Toilets from List in Resources	1	
2-47	2-8	Install Dual Flush Toilets	8	
2-48	10	Install Composting Toilets		
2-49	5	Bonus Points: Stub-In Plumbing to Use Greywater Water for Toilet Flushing		
2-50	10	Use Greywater Water for Toilet Flushing		
2-51	2	Install a Recirculating Pump for Domestic Hot Water		
		<b>Subtotal</b>	<b>11</b>	
<b>Eliminate Water Pollutants</b>				
2-52	1	Educate Owners/Tenants About Fish-Friendly Moss Control	1	
2-53	3	Provide Food Waste Chutes and Compost or Worm Bins Instead of a Food Garbage Disposal	1	
2-54	3	Install a Whole House Water Filter System		
		<b>Subtotal</b>	<b>2</b>	
<b>ENVIRONMENTAL DESIGN CONCEPTS</b>				
2-55	10	Provide Accessory Dwelling Unit or Accessory Living Quarters	10	
2-56	1	Build North Area of the Lot First, Retaining South Area for Outdoor Activities		
2-57	5	Provide a Front Porch	5	
2-58	2	Position Garage So It Is Not in Front of House		
2-59	2-5	Minimize Garage Size		
2-60	4	Build within ¼ mile of a transit stop	4	
		<b>Subtotal</b>	<b>19</b>	
<b>Extra Credit for Site and Water</b>				
2-61		Extra Credit for Innovation in Site and Water		
		<b>Subtotal</b>	<b>0</b>	
<b>SITE AND WATER SECTION TOTALS</b>			<b>155</b>	
<b>Section Three: Energy Efficiency</b>				
<b>ENVELOPE</b>				
<b>Thermal Performance</b>				
3-1	10-40	Document Envelope Improvements Beyond Code (Component Performance Approach)	30	
3-2	1-55	Document Envelope Improvements Beyond Code (Prescriptive Approach)		
3-3	1	Install Rigid Insulation Beneath Any Slabs on Grade	1	
3-4	5	Install Dense Packed Cellulose (Over 2.5 lbs/inch), or Wet-Blown Cellulose, or Blown-in Foam or Fiberglass BIBS as Insulation	5	
3-5	8	Bonus Points: Participate in a Program that Provides Third-Party Review and Inspection	8	
3-6	1	Install No More Than 1% of Floor Space of Skylights	1	
3-7	50	Build a Zero Net Energy Home That Draws Zero Outside Power or Fuel On a Net Annual Basis		
		<b>Subtotal</b>	<b>45</b>	
<b>Air Sealing</b>				
3-8	3	Airtight Drywall Approach for Framed Structures	2	partitions caulked during drywall
3-9	3	Use Airtight Building Method, Such as SIP or ICF		
3-10	5-10	Blower Door Test Results Better than 0.30 ACH (5 points), 0.25 ACH (10 points)	10	0.15 pending final test
		<b>Subtotal</b>	<b>12</b>	
<b>Reduce Thermal Bridging</b>				
3-11	1	Use Insulated Headers	1	headers in rim joist
3-12	1	Fully Insulate Corners (Requires 2-Stud Corners Instead of 3-Stud Corners)	1	
3-13	1	Fully Insulate at Interior/Exterior Wall Intersection By Open Cavity Framing (See Reference Guide)	1	
3-14	3	Use Energy Heels of 6 Inches or More on Trusses to Allow Added Insulation Over Top Plate	3	12"+
3-15	10	Use Structural Insulated Panels (SIPs) on Whole House		
3-16	2	Use Insulated Exterior Sheathing	2	
3-17	5	Use Advanced Wall Framing - 24-Inch OC, With Double Top Plate		
3-18	5	Innovative Stick Framing to Reduce Thermal Bridging, by Methods Such as Double Wall Framing and Horizontal Wall Furring	5	R2.5 foam under sheathing
		<b>Subtotal</b>	<b>13</b>	
<b>Solar Design Features</b>				
3-19	6	Passive Solar Design, Basic Features Installed		
3-20	12	Passive Solar Design, Advanced Features Installed		
3-21	3	Model Solar Design Features Using Approved Modeling Software		
3-22	4-10	Demonstrate a Reduction in Space Conditioning Energy, Using Approved Energy Modeling Software	4	Rem rate
		<b>Subtotal</b>	<b>4</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>HEATING/COOLING SYSTEM</b>				
<b>Distribution</b>				
3-23	1	Centrally Locate Heating/Cooling System to Reduce the Size of the Distribution System	1	
3-24	1	Two Properly Supported Ceiling Fan Pre-Wires	1	
3-25	2	Use Advanced Sealing of All Ducts Using Low-Toxic Mastic		
3-26	3	Performance Test Duct for Air Leakage Meets Third-Party Review and Certification		
3-27	5	Third-Party Duct Test Results Less Than 6% Loss of Floor Area to Outside/Total Flow		
3-28	5	All Ducts Are In Conditioned Space		
3-29	4	Locate Heating/Cooling Equipment Inside the Conditioned Space		
3-30	5-10-15	Install Hydronic Heating Systems, Point Range Based on Boiler Efficiency	15	trinity boiler 93%AFUE
		<b>Subtotal</b>	<b>17</b>	
<b>Controls</b>				
3-31	1	Install Thermostat with On-Switch for Furnace Fan to Circulate Air		
3-32	2	Install 60-Minute Timers or Humidistat for Bathroom and Laundry Room Fans	2	
3-33	2	Install Programmable Thermostats	2	
3-34	3	Select High Efficiency Heat Pumps Instead of Electric Heat		
		<b>Subtotal</b>	<b>4</b>	
<b>Heat Recovery</b>				
3-35	3	Install a Heat Recovery Ventilator	3	Fantech dual core 76%
		<b>Subtotal</b>	<b>3</b>	
<b>Heating / Cooling</b>				
3-36	3	Select Energy Star® Heating/Cooling Equipment	3	
3-37	2	Install Biofuel Appliances		
3-38		No Gas Fireplaces, Use Direct Vent Gas or Propane Hearth Product		
3-39	5	No Air Conditioner	5	
3-40	3	Install On-Demand Hot Water Heating Used for Space Heating	3	
3-41	10	Install Geothermal Heat Pumps		
		<b>Subtotal</b>	<b>11</b>	
<b>WATER HEATING</b>				
<b>Distribution</b>				
3-42	2	Locate Water Heater Within 20 Pipe Feet of Highest Use	2	
3-43	1	Insulate All Hot Water Pipes and Install Cold Inlet Heat Traps on Hot Water Heater		
		<b>Subtotal</b>	<b>2</b>	
<b>Drainwater Heat Recovery</b>				
3-44	2	Install Drainwater Heat Recovery System (DHR)		
		<b>Subtotal</b>	<b>0</b>	
<b>Water Heating</b>				
3-45	2	Passive or On-Demand Hot Water Delivery System Installed at Farthest Location From Water Heater		
3-46	2	Install Tankless Hot Water Heater		
3-47	2-7	Upgrade Gas or Propane Water Heater Efficiency to EF 0.61, 0.83, or 0.90	7	
3-48	2	Install Water Heater Inside the Heated Space (Electric, Direct Vent, or Sealed Venting Only)		
3-49	4	Upgrade Electric Water Heater to Exhaust Air Heat Pump Water Heater or De-Superheater: EF 1.9		
3-50	3	Install a Timer to Regulate Standby Hot Water Loss in Hot Water Heater		
		<b>Subtotal</b>	<b>7</b>	
<b>LIGHTING</b>				
<b>Natural Light</b>				
3-51	1	Light-Colored Interior Finishes	1	
3-52	2	Use Clerestory for Natural Lighting	1	
3-53	2	Use Light Tubes for Natural Lighting and to Reduce Electric Lighting		
		<b>Subtotal</b>	<b>2</b>	
<b>Efficient Lighting</b>				
3-54	1	Solar Powered Walkway or Outdoor Area Lighting		
3-55	1	Furnish Four Compact Fluorescent Light Bulbs to Owners	1	95% CFL lighting
3-56	2-5	Use Compact Fluorescent Bulbs, Ballast, or Fixtures in Three High-Use Locations (Kitchen, Porch/Outdoors, and One Other Location)	5	
3-57	1-10	Install Hard-Wired Fluorescent Fixtures, with 1 Point for each 10% of Lighting	7	
3-58	1	Hard Wired Fluorescents on Dimmer		
3-59	3	Install Lighting Dimmer, Photo Cells, Timers, and/or Motion Detectors (Interior)		
3-60	2	Install Photo Cells, Timers, Motion Detectors (Exterior)	2	
3-61	1	Install LED Lighting		
3-62	1	Use Air Lock Can Lights Instead of IC Rated	1	no recessed cans in top ceiling
		<b>Subtotal</b>	<b>16</b>	
<b>Appliances</b>				
3-63	1	Provide an Outdoor Clothesline		
3-64	1	Install Gas Clothes Dryer		
3-65	3	Install Front Loading or Energy Star® Washing Machine	3	
3-66	1	Install an Energy Star® Dishwasher	1	
3-67	2	Install Energy Star® Refrigerator	2	
3-68	2	Install Gas Stove/Cooktop (Requires a Carbon Monoxide Detector)	2	
3-69	2	Install Energy Star® Exhaust Fan	2	
		<b>Subtotal</b>	<b>10</b>	
<b>EFFICIENT DESIGN</b>				
3-70	2	Use Building and Landscaping Plans That Reduce Heating/Cooling Loads Naturally		
3-71	5	Install Heat Systems with Separate Zones for Sleeping and Living Areas	5	
		<b>Subtotal</b>	<b>5</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>ALTERNATIVE ENERGY</b>				
3-72	2-3	Enroll the Residence in the Local Utility's Electricity Program for Renewable Electricity Sources	3	
3-73	10	Solar Water Heating System Sized to Provide a Minimum of 40% Hot Water Designed Energy Use	10	
3-74	2	Pre-Pipe for Solar Water Heater		
3-75	5-25	House Powered by Photovoltaic	15	
3-76	5-25	Install Innovative Non-Solar Renewable Power Systems That Produce a Minimum of 15%, 30%, or 50% of the House's Total Annual Energy		
		<b>Subtotal</b>	<b>28</b>	
<b>Extra Credit for Energy Efficiency</b>				
3-77		Extra Credit for Innovation in Energy Efficiency	10	61% sav, lowest HERS score to date
			1	No recessed cans
			2	2 Building America Case study project
		<b>Subtotal</b>	<b>13</b>	
<b>ENERGY EFFICIENCY SECTION TOTALS</b>			<b>192</b>	
<b>Section Four: Health and Indoor Air Quality</b>				
<b>OVERALL</b>				
4-1	5	Assist Homeowners with Chemical Sensitivities to Identify Preferred IAQ Measures and Finishes	5	
4-2	5	Project Team Member to Have Taken American Lung Association (ALA) of Washington "Healthy House Professional Training" Course or Other IAQ Class With 8 Hours of Curriculum Minimum		
4-3	15	Certify House Under ALA Health House Program or Other Program As Approved By Program Director		
4-4	2	Provide Homeowners With Maintenance Checklists (Furnace Filters, Under the Fridge, Etc.)	2	
		<b>Subtotal</b>	<b>7</b>	
<b>JOBSITE OPERATIONS</b>				
4-5	1	Use Less-Toxic Cleaners	1	
4-6	1	Require Workers to Use VOC-Safe Masks When Applying VOC Containing Wet Products, and N-95 Dust Masks When Generating Dust	1	
4-7	3-5	Take Measures During Construction Operations to Avoid Moisture Problems Later (See Handbook for Basics and Expanded Levels)	5	
4-8	2	Take Measures To Avoid Problems Due To Construction Dust (Perform All Measures Listed In Handbook)	2	
4-9	3	Ventilate With Box Fans In Windows Blowing Out During Drywall Sanding and New Wet Finish Applications	3	
4-10	2	No Use of Unvented Heaters During Construction	2	
4-11	3	Clean Duct and Furnace Thoroughly Just Before Owners/Tenants Move In		
4-12	4	Train Subs in Implementing a Healthy Building Jobsite Plan for the Project	4	
		<b>Subtotal</b>	<b>18</b>	
<b>LAYOUT AND MATERIAL SELECTION</b>				
4-13	1	Use Pre-Finished Flooring	1	
4-14	15	No Carpet	15	
4-15	2	If Using Carpet, Specify Products Certified by Third-Party for Indoor Air Quality		
4-16	1	Do Not Install Either Insulation or Carpet Padding With Brominated Flame Retardant		
4-17	1	Install Low Pile or Less Allergen-Attracting Carpet and Pad		
4-18	3	Limit Use of Carpet to One-Third of Home's Square Footage		
4-19	2-6	Optimize Air Quality in Family Bedrooms to Basic or Advanced Level (Perform All Measures Listed in Handbook for Basic or Advanced Level)	4	
4-20	1	If Using Carpet, Install by Dry Method		
4-21	5	Detached or No Garage, or Garage Air-Sealed from House with Automatic Exhaust Fan	5	
4-22	3	Use Urea Formaldehyde-Free Insulation or Greenguard Certified Product	3	
4-23	4	Do Not Use Fiberglass Insulation		
4-24		Inside the House, Use Only Low-VOC, Low-Toxic, Water-Based, Solvent-Free Sealers, Grouts, Mortars, Caulks, Adhesives, Stains, Pigments, and Additives for:		
4-24a	2	Tile and Grout	2	
4-24b	2	Framing	2	
4-24c	4	Flooring	4	
4-24d	2	Plumbing	2	
4-24e	2	HVAC	2	
4-24f	2	Insulation	2	
4-24g	2	Drywall		
4-25	3	Use Plywood and Composites of Exterior Grade or With No Added Urea Formaldehyde (For Interior Use)	3	
4-26	5	Install Cabinets Made with No Added Urea Formaldehyde Board and Low-Toxic Finish	3	
4-27	3	Use Ceramic Tile for 5% of Flooring	3	
4-28	5	Use Only Shelving, Window Trims, Door Trim, Base Molding, Etc., With No Added Urea Formaldehyde	5	
4-29	3	Use No PVC Piping for Plumbing	3	
4-30	1	Install Natural Fiber Carpet (e.g. Wool)		
4-31	3	Use Only Low-VOC/Low-Toxic Interior Paints and Finishes for Large Surface Areas	3	
4-32	5	Use Only Low-VOC/Low-Toxic Interior Paints and Finishes for All Surface Areas (Including Doors, Windows, Trim)	5	
4-33	1	Use Only Paints and Finishes Without Cadmium or Lead	1	
		<b>Subtotal</b>	<b>68</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>MOISTURE CONTROL</b>				
4-34	1	Grade to Drain Away from Buildings	1	
4-35	1	Verify Seal at Doors, Windows, and Plumbing and Electrical Penetrations Against Moisture and Air Leaks	1	
4-36	3	Envelope Inspection at Pre-Installation by a Qualified Professional	3	By tom and dan
4-37	2	Slab On Grade, Upgrade Under Slab Moisture Barrier Beyond Code to 10 mil Minimum; Minimum of 10 mil Poly in Crawl Spaces with Sealed Seams and Sealed Perimeter	2	
4-38	1	Use Ridge Vents for Venting Attic	1	
4-39	1	Prepare a Roof Water Management Plan Showing Best Practices for the Site Soils and Storm Water Infrastructure	1	
4-40	3	Roof Overhangs Are at Least 24" Inches	3	
4-41	2	Protect Windows and Doors on Tall Walls with Additional Overhang Protection		
4-42	6	Install a Drain Plane for Walls Between Siding, Trim, and Building Paper or House Wrap	6	
4-43		Install:		
4-43a	7	A Sloped Sill Pan with End Dams and Back Dams for All Windows, and Back Dams for All Exterior Doors Exposed to the Weather		
4-43b	3	Back Dams or Sloped Sill at All Window Sills	3	
4-44	1	Install Metal Flashing at All Windows	1	
4-45	1	Install Metal Flashing at Door Heads Exposed to the Weather	1	
4-46	3	Hose Test First Installed Windows to Verify Resistance to Wind Driven Rain		
4-47	2	Install Working "Radon" Type Vent System to Eliminate Potential Moisture, Methane, and Radon Problems in Crawl Space or Under Slabs on Grade		
4-48	1	Install A Rigid Perforated Footing Drain at Foundation Perimeter, Not Connected to Roof Drain System		
4-49	3	Show and Build Moisture Management Details for Below Grade Walls Beyond Code, Such as Dimple Drainage Mat at Exterior Face and Capillary Breaks		
4-50	2	Perform Calcium Chloride Moisture Test on All Slabs on Grade Prior to Installing Any Finish Flooring in Conformance with Product Warranties	2	
4-51	3	Have Crawl Space, Attic, and Garage Building Performance Tested for Disconnection to the Living Space of House		
		<b>Subtotal</b>	<b>25</b>	
<b>AIR DISTRIBUTION AND FILTRATION</b>				
4-52	2	Do Not Install Electronic, Metal Mesh, Horse Hair, or Non-Pleated Fiberglass Filters	2	
4-53		Use Effective Air Filter		
4-53a	1	Use Medium Efficiency Pleated Filter, MERV 10		
4-53b	5	Use High Efficiency Pleated Filter, MERV 12 or Better, or HEPA	5	
4-54	2	Balance Airflow System Based on Filter Being Used	2	
4-55	3	Install Central Vacuum, Exhausted to Outside		
4-56	2	Provide for Cross Ventilation Using Operable Windows	2	
		<b>Subtotal</b>	<b>11</b>	
<b>HVAC EQUIPMENT</b>				
4-57	1	Flow Test All Fans In the House	1	
4-58	1	Use Heating System Controls That Are Free of Mercury	1	
4-59	1	Limit Kitchen Exhaust Fan to 300 CFM Maximum	1	
4-60	1	Install 60-Minute Timer Switches for Bath Exhaust Fans or HRV Override Switch	1	
4-61	2	Install Quiet (<1.5 sone) Bath Fan with Smooth Ducting, Minimum 4 Inch or Employ Other Quiet Ventilation Strategy	2	
4-62	1	Install Exhaust Fans in Rooms Where Office Equipment is Used		
4-63	3	Install Sealed Combustion Heating and Hot Water Equipment	3	
4-64	3	Install Power Venting for Combustion Furnaces and Water Heating Equipment (Cannot Be Taken in Addition to Action Item 4-63)		
4-65	3	Install Exhaust Fan in Attached Garage On Timer or Wired to Door Opener, or No Garage Attached to Home	3	
4-66	2	Install Whole House Fan Beyond the Code Requirements	2	
4-67	1	No Sound Insulation or Other Fibrous Materials Installed Inside Ducting	1	
4-68	5	Bonus Points: Provide Balanced or Slightly Positive Indoor Pressure Using Controlled Ventilation	5	
4-69	3	Install Timer Control Integrated with Thermostat On Whole House Ventilation System with Balanced or Positive Pressure, or Continually Running HRV		
4-70	10	Install Whole House Radiant Heating System (No Ducted Heating)	10	
		<b>Subtotal</b>	<b>30</b>	
<b>Health and Indoor Air Quality</b>				
4-71	1	Build a Lockable Storage Closet for Hazardous Cleaning and Maintenance Products, Separate from Occupied Space		
4-72	1	If Installing Water Filter at Sink, Select One with Biodegradable Carbon Filter	1	
4-73	1	Install Showerhead Filter		
4-74	3	Do Not Install a Wood-Burning Fireplace Inside House	3	
4-75	1	Do Not Install Gas-Burning Appliances Inside House		
4-76	3	Design a Shoe Removal Vestibule at Major Entrances to House (Front, Back, Garage)	2	Tile floor at entry with space for bench
4-77	1-2	Install Floor Drain or Catch Basin with Drain Under Washing Machine and/or Water Heater	2	
4-78	1	Install Moisture Alarms Under Sinks and Dishwasher		
		<b>Subtotal</b>	<b>8</b>	
<b>Extra Credit for Health and Indoor Air Quality</b>				
4-79		Extra Credit for Innovation in Health and Indoor Air Quality		
		<b>Subtotal</b>	<b>0</b>	
<b>HEALTH AND INDOOR AIR QUALITY SECTION TOTALS</b>			<b>167</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>SECTION FIVE: MATERIALS EFFICIENCY</b>				
<b>OVERALL</b>				
5-1	10	Practice Waste Prevention and Recycling and Buy Recycled Products	5	
5-2	5-9	Design and Build for Deconstruction Concept		
5-3	1-5	Eliminate Materials and Systems That Require Finishes on a Minimum of 100 Square Feet	1	closet shelves/tile
		<b>Subtotal</b>	<b>6</b>	
<b>JOBSITE OPERATIONS</b>				
5-4	1	Provide Weather Protection for Stored Materials		
5-5	1	Substitute Products That Require Solvent-Based Cleaning Methods with Solvent-Free or Water-Based Methods		
		<b>Subtotal</b>	<b>0</b>	
<b>Reduce</b>				
5-6	2	Create Detailed Take-Off and Provide as Cut List to Framers	2	
5-7	2	Use Central Cutting Area or Cut Packs	2	
5-8	2	Require Subcontractors and Contractor's Employees to Participate in Waste Reduction Efforts	2	Snowy the lunch trash cop
		<b>Subtotal</b>	<b>6</b>	
<b>Reuse</b>				
5-9	2-20	Use Deconstruction to Dismantle and Reuse Existing Building(s) On Site		
5-10	1	Sell or Give Away Wood Scraps, Lumber, and Land Clearing Debris	1	
5-11	1	Donate, Give Away, or Sell Reusable Finish Items		
5-12		Reuse Building Materials {{Suggestion: Move Section Here as Primary for new Breakouts}}		
5-12a	1	Reuse Doors		
5-12b	1	Reuse Flooring		
5-12c	1	Reuse Windows		
5-12d	1	Reuse Appliances		
5-12e	1	Reuse Fixtures		
5-12f	1	Reuse Hardware		
5-12g	1	Reuse Cabinets		
5-12h	1	Reuse Siding		
5-12i	1	Reuse Decking		
5-12j	1	Reuse Trim		
5-12k	1	Reuse Framing Lumber		
		<b>Subtotal</b>	<b>1</b>	
<b>Recycle</b>				
<b>Source Separation Recycling</b>				
5-13	1	Recycle Cardboard by Source Separation, 85% Minimum Recycling Rate	1	seperated and recycled at builder's home
5-14	2	Recycle Metal Scraps by Source Separation, 85% Minimum Recycling Rate		
5-15	5	Recycle Clean Scrap Wood and Broken Pallets by Source Separation, 85% Minimum Recycling Rate		
5-16	2	Recycle Package Wrap and Pallet Wrap by Source Separation, 85% Minimum Recycling Rate		
5-17	3	Recycle Drywall by Source Separation, 85% Minimum Recycling Rate	3	
5-18	2	Recycle Concrete/Asphalt Rubble, Masonry Materials, or Porcelain by Source Separation, 85% Minimum Recycling Rate	2	Topsoils, Inc seperated
5-19	1	Recycle Paint by Source Separation, 85% Minimum Recycling Rate		
5-20	4	Recycle Asphalt Roofing by Source Separation, 85% Minimum Recycling Rate	4	Topsoils, Inc seperated
5-21	2	Recycle Carpet Padding and Upholstery Foam by Source Separation, 85% Minimum Recycling Rate		
5-22	1	Recycle Glass by Source Separation, 85% Minimum Recycling Rate		
5-23	3	Recycle Land Clearing and Yard Waste, Soil, and Sod by Source Separation, 85% Minimum Recycling Rate	3	stumps and branches ground on site
		<b>Subtotal</b>	<b>13</b>	
<b>Commingle Recycling</b>				
5-24	10	Send At Least 85% of Jobsite Waste (By Weight, Excluding Concrete) to a Commingle Recycling Facility with a 50% Recycling Rate		
5-25	18	Send At Least 85% of Jobsite Waste (By Weight, Excluding Concrete) to a Commingle Recycling Facility with a 75% Recycling Rate		
5-26	24	Send At Least 85% of Jobsite Waste (By Weight, Excluding Concrete) to a Commingle Recycling Facility with a 90% Recycling Rate	24	Topsoils Inc, builder submitted all receipts
5-27	4	Commingle Recycle at Least 50% of Jobsite Debris, and Take to a Facility With a Minimum Recycling Rate of 50%		
5-28	3-12	Bonus Points: Overall Recycling Rate Above 50%, 70%, or 90% by weight	12	
		<b>Subtotal</b>	<b>36</b>	
<b>DESIGN AND MATERIAL SELECTION</b>				
<b>Overall</b>				
5-29	1	Use Standard Dimensions in Design of Structure	1	
5-30	1	Install Materials with Longer Life Cycles	1	
5-31	1-3	Install Locally Produced Materials	3	richlite/tile,/FJ pine trim/lumber
5-32	1-8	Use Building Salvaged Lumber, Minimum 200 Board Feet		
5-33	2-3	Use Urban or Forest Salvaged Lumber, Minimum 250 Board Feet		
5-34	1	Use Any Amount of Rapidly Renewable Building Materials and Products Made From Plants Harvested Within a Ten-Year Cycle or Shorter	1	Bamboo Floors
5-35	3	In Three Applications, Use Rapidly Renewable Building Materials and Products Made From Plants Harvested Within a Ten-Year Cycle or Shorter	3	floors, bamboo fencing, bamboo towel racks
5-36	1-10	Bonus Points: Reuse Salvaged Materials		
5-37	3	Use No Endangered Wood Species	3	
5-38	2	Use Environmentally Preferable Products with Third-Party Certification, such as SCS, Greenguard, Green Seal, and Floor Score (Not Applicable to Carpet)		
		<b>Subtotal</b>	<b>12</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>Framing</b>				
5-39	7	Use Dimensional Lumber that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-40	1	Use Dimensional Lumber that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook		
5-41	5	Use Sheathing That Is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-42	1	Use Sheathing That Is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook		
5-43	5	Use Beams That Are Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-44	1	Use Beams That Are Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook		
5-45	1	Use Factory Framed Wall Panels (Panelized Wall Construction)		
5-46		Use Stacked Floor Plan		YES
5-47	3	Use Engineered Structural Products and Use No Dimensional 2xs Larger Than 2x8, and No 4xs Larger Than 4x8	3	
5-48	4	Use Structural Insulated Panels (SIPs)		
5-49	3	Use Insulated Concrete Forms (ICFs)		
5-50	2-3	Use Finger-Jointed Studs		
5-51	5	Use Advanced System Framing With Double Top Plate	3	thermal break 1/2" foam walls
		<b>Subtotal</b>	<b>6</b>	
<b>Foundation</b>				
5-52	1	Use Regionally Produced Block	1	
5-53	6	Use Flyash or Blast Furnace Slag For 25% by Weight of Cementitious Materials for All Concrete (20% for Flat Work)	3	
5-54	2	Use Recycled Concrete, Asphalt, or Glass Cullet For Base or Fill		
		<b>Subtotal</b>	<b>4</b>	
<b>Sub-Floor</b>				
5-55	1	Use Recycled-Content Sub-Floor		
		<b>Subtotal</b>	<b>0</b>	
<b>Doors</b>				
5-56	2	Use Domestically-Grown Wood Interior Doors	2	BC grown, chinese assy, extensive reserch by builder
		<b>Subtotal</b>	<b>2</b>	
<b>Finish Floor</b>				
5-57	4	No Vinyl Flooring	4	
5-58	1	Use Any Amount of Rapidly Renewable Flooring Products With a Ten-Year Harvest Cycle or Shorter (Excluding Carpet)	1	
5-59	3	On More Than 250 Square Feet, Use Rapidly Renewable Flooring Products With a Ten-Year Harvest Cycle or Shorter (Excluding Carpet)	3	
5-60	1	Use Recycled-Content Carpet Pad		
5-61	1	Use Recycled, Renewed Carpet or Wool Carpet		
5-62	1	Use Replaceable Carpet Tile		
5-63	3	Use 40% Recycled-Content Hard Surface Tile, 100 Square Feet Minimum		
5-64	3	Use Natural Linoleum		
5-65	1-5	Use Locally Salvaged Wood Flooring		
5-66	5	Use Flooring that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-67	1	Use Flooring that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook		
5-68	1	Use Durable/Spot Repairable Floor Finish		
5-69	2	Use Concrete Slab or Sub-Floor as a Finished Floor in Living Space		
		<b>Subtotal</b>	<b>8</b>	
<b>Interior Walls</b>				
5-70	4	Use Drywall with a Minimum of 90% Recycled-Content Gypsum or Flue Gas Substitute for Recycled Gypsum		
5-71	2	Use Recycled or "Reworked" Paint and Finishes		
5-72	1	Use Recycled Newspaper or Cork Expansion Joint Filler		
5-73	1-3	Use Natural Wall Finishes, Like Lime Paint and Clay		
5-74	2	Reduce Interior Walls Through Open Plan for Kitchen, Dining, and Living Areas		
		<b>Subtotal</b>	<b>0</b>	
<b>Exterior Walls</b>				
5-75	3	Use Siding with Reclaimed or Recycled Material On At Least 20% of Solid Wall Surface		
5-76	4	No Vinyl Siding or Exterior Trim		
5-77	2	Use 50-Year Warranted Siding Product	2	grade1TK cedar backprimed w/spacer
5-78	5	Use Wood Siding that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, On At Least 20% of Solid Wall Surface		
5-79	1	Use Wood Siding that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook, On At Least 20% of Solid Wall Surface		
5-80	3	Use Salvaged Masonry Brick or Block, 50% Minimum		
5-81	2	Use Regionally-Produced Stone or Brick		
5-82	5	Use Straw Bale Walls, Minimum R-28		
		<b>Subtotal</b>	<b>2</b>	
<b>Windows</b>				
5-83	3	Use Wood/Composite or Fiberglass Windows		
5-84	4	No Vinyl Windows		
5-85	1	Use Finger-Jointed Wood Windows		
5-86	5	Use Wood Windows that are Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook		



Number	Possible Points	CREDITS	Point Totals	Comments
5-87	1	Use Wood Windows that are Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook		
<b>Subtotal</b>			<b>0</b>	

Number	Possible Points	CREDITS	Point Totals	Comments
<b>Cabinetry and Trim</b>				
5-88		If Using Trim:		
5-88a	1	Use Regional Trim Products, 50% Minimum	1	
5-88b	3	Use Trim That Is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-88c	1	Use Trim that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook, 50% Minimum		
5-89	3	Use Finger-Jointed or MDF Trim With No Added Urea Formaldehyde, 90% Minimum		
5-90	1	Use Wood Veneers that are Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-91		For Cabinets:		
5-91a	2	Use Regional Products, 90% Minimum		
5-91b	3	Use Wood that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook, 50% Minimum		
5-91c	1	Use Wood that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 2 Requirements Outlined in the Handbook, 50% Minimum		
5-92	2-3	Use Cabinet Casework and Shelving Constructed of Agricultural Fiber With No Added Urea Formaldehyde		
5-93	1	Use Countertops That Are Salvaged, Recycled, or Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook		
		<b>Subtotal</b>	<b>1</b>	
<b>Roof</b>				
5-94	2	Use Recycled-Content Roofing Material	2	
5-95	2	Use 30-Year Warranted Roofing Material		
5-96	3	Use 40-Year Warranted Roofing Material	3	comp. 40 yr roofing
5-97	2	Use Solar Shingles		
5-98	3	Install a Metal Roof		
		<b>Subtotal</b>	<b>5</b>	
<b>Insulation</b>				
5-99	2	All Insulation to have a Minimum of 40% Recycled-Content	2	cellulose net and blown in
5-100	3	Use Environmentally Friendly Foam Building Products (Formaldehyde-Free, CFC-Free, HCFC-Free)	3	
		<b>Subtotal</b>	<b>5</b>	
<b>Other Exterior</b>				
5-101	2	Use Reclaimed or Salvaged Material for Landscaping Walls		
5-102	3	Use 100% Recycled-Content HDPE, Salvaged Lumber or Lumber that is Third-Party Certified Sustainably Harvested Wood that Meets the Tier 1 Requirements Outlined in the Handbook for Decking and Porches		
5-103	4	Use No Pressure Treated Lumber	4	sill seal seperates plates from conc.
5-104	5+	Points for B20 Biodiesel or Better Equipment (5 Points for 100% Excavation Equipment on Biodiesel, 1 Point for Any Additional Vehicle Frequently On Site)		
		<b>Subtotal</b>	<b>4</b>	
<b>Recycling</b>				
5-105	2	Provide Built-In Kitchen or Utility Room Recycling Center	2	space in pantry for bins
		<b>Subtotal</b>	<b>2</b>	
<b>Extra Credit for Materials Efficiency</b>				
5-106		Extra Credit for Innovation in Materials Efficiency		
		<b>Subtotal</b>	<b>0</b>	
		<b>MATERIALS EFFICIENCY SECTION TOTALS</b>	<b>113</b>	
<b>Extra Credit</b>				
EC-1	1-10	Extra Credit for Innovation in Marketing	10	behind walls tour/solar tour/web site/news coverage/EV marketing
		<b>Subtotal</b>	<b>10</b>	
		<b>EXTRA CREDIT TOTALS</b>	<b>10</b>	
		<b>Project Scoring Sub-Total</b>	<b>637</b>	
		<b>(Action Item 1-13) Multiplier</b>	<b>1.05</b>	<b>2389 sf/ 4br</b>
		<b>PROJECT SCORING TOTAL</b>	<b>668.85</b>	
<b>PROJECT SUMMARIES</b>				
		<b>CODES &amp; REGULATIONS</b>	<b>X</b>	
		<b>SITE &amp; WATER SECTION TOTALS</b>	<b>155</b>	
		<b>ENERGY EFFICIENCY SECTION TOTALS</b>	<b>192</b>	
		<b>HEALTH AND INDOOR AIR QUALITY SECTION TOTALS</b>	<b>167</b>	
		<b>MATERIALS EFFICIENCY SECTION TOTALS</b>	<b>113</b>	
		<b>EXTRA CREDIT TOTALS</b>	<b>10</b>	