



## LEED for Homes Project Summary

This documentation package must be submitted to GBCI by the designated LEED for Homes Provider. The certification fee should be paid through LEED Online.

**E-mail certification package to:** [homescertification@gbc.org](mailto:homescertification@gbc.org)

### Certification Package

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Project Summary page</li> <li><input checked="" type="checkbox"/> Signed LEED for Homes Checklist</li> <li><input checked="" type="checkbox"/> Signed Accountability Forms</li> <li><input checked="" type="checkbox"/> Signed Durability Inspection Checklist</li> </ul> | <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Durability Evaluation Form</li> <li><input checked="" type="checkbox"/> Multi-home or Multi-building page (if appl.)</li> <li><input checked="" type="checkbox"/> Conflict of Interest Form (if appl.)</li> </ul> |
|--|--|

### Project Information

Registration #:	<b>88138</b>	Reg Date:	<b>10/24/16</b>
Project name	<b>Newland Residence</b>		
Project address(es)	<b>5333 Drew Avenue South</b>		
City	<b>Minneapolis</b>		
Metro. Area			
State	<b>Minnesota</b>		
Zip Code	<b>55410-2007</b>		
Subdivision / Dev.	<b>Infill</b>		

### Project Team Information

Team Leader	<b>Sean Morrissey</b>
Company	<b>Morrissey Builders</b>
Address	<b>2333 Kennedy Street. N.E., Mpls, MN 55413</b>
E-mail	<b>sean@morrisseybuilders.com</b>
Builder / Developer	<b>Morrissey Builders</b>
Other project team members	<b>Practical Systems (HVAC)</b>
	<b>JD Custom Framing</b>

### Verification Team Information

Provider QAD	<b>Michael Holcomb</b>	QAD Company	<b>Green Homes Institute</b>
Green Rater	<b>Pat O'Malley</b>	Rater Company	<b>Building Knowledge</b>
Green Rater		Rater Company	
Energy Rater		Rater Company	

### Project Information

Type of building:	<b>Single detached</b>	# of stories	<b>2</b>
Type of builder / project:	<b>Custom</b>	# of bedrooms:	<b>4</b> <small>(how to choose?)</small>
Affordable project?	<b>No</b>	Gut-rehab?	<b>No</b>
		Floor area (square feet):	<b>2,972</b> <small>(how to choose?)</small>
# of homes in project, total:	<b>1</b>	Home Size Adjustment:	<b>3.5</b>
# of homes in this submittal:	<b>1</b>	EA pathway?	<b>Performance</b>
<a href="#">IECC climate zone</a>	<b>6</b>	HERS Index (if any)	<b>44</b>
<a href="#">EPA radon zone</a>	<b>1</b>		





for Homes

## LEED for Homes Project Checklist

Builder Name:	Morrissey Builders
Project Team Leader:	Sean Morrissey, Morrissey Builders
Home Address (Street/City/State):	5333 Drew Avenue South, Minneapolis, Minnesota

### Project Description

Building Type: **Single detached**  
 # of Bedrooms: **4**

Project type: **Custom**  
 Floor Area: **2,972**

### Adjusted Certification Thresholds

Certified: **48.5**      Gold: **78.5**  
 Silver: **63.5**      Platinum: **93.5**

<b>Project Point Total</b>	<b>Final Credit Category Point Totals</b>
Prelim: 55.5 + 1 maybe pts      Final: 72	ID: 3      SS: 13.5      EA: 24.5      EQ: 13
<b>Certification Level</b>	LL: 9      WE: 3      MR: 5      AE: 1
Prelim: <b>Certified</b> Final: <b>Silver</b>	
Date Most Recently Updated:	Updated by:

☒ Indicates that an Accountability Form is required.

Innovation & Design Process (ID) (Minimum 0 ID Points Required)	Max Pts. Available	Preliminary Rating			Notes	Project Points
		Y / Pts	Maybe	No		
<b>1. Integrated Project Planning</b>	<b>Max: 11</b>	<b>Y:0</b>	<b>M:0</b>			<b>Final: 3</b>
1.1 Preliminary Rating				Prereq.		Y
Target performance tier: <span style="border: 1px solid black; padding: 2px;">Gold</span>						
1.2 Integrated Project Team (meet all of the following)	1	0	0	N		0
<input type="checkbox"/> a) Individuals or organizations with necessary capabilities <input type="checkbox"/> b) All team members involved in various project phases						
<input type="checkbox"/> c) Regular meetings held with project team						
1.3 Professional Credentialed with Respect to LEED for Homes	1	0	0	N	please see ID 01-06 for details	0
1.4 Design Charrette	1	0	0	N		0
1.5 Building Orientation for Solar Design (meet all of the following)	1	0	0			0
<input type="checkbox"/> a) Glazing area on north/south walls 50% greater than on east/west walls <input type="checkbox"/> b) East-west axis is within 15 degrees of due east-west						
<input type="checkbox"/> c) At least 450 sq. ft. of south-facing roof area, oriented for solar applications <input type="checkbox"/> d) 90% of south-facing glazing is shaded in summer, unshaded in winter						
<b>2. Quality Management for Durability</b>						
2.1 Durability Planning (meet all of the following)				Prereq.		Y
<input checked="" type="checkbox"/> a) Durability evaluation completed <input checked="" type="checkbox"/> b) Strategies developed to address durability issues <input checked="" type="checkbox"/> c-i) Nonpaper-faced backer board in tub, shower, spa areas <input checked="" type="checkbox"/> c-ii) No carpet in kitchen, bathroom, laundry, and spa areas <input checked="" type="checkbox"/> c-iii) No carpet within 3 ft of each entryway <input checked="" type="checkbox"/> c-iv) Install drain and drain pans in tank water heaters in/over living spaces; OR no tank water heaters in/over living spaces						
<input checked="" type="checkbox"/> c-v) Install drain and drain pans for clothes washers in/over living spaces; OR no clothes washers in/over living spaces <input checked="" type="checkbox"/> c-vi) Exhaust conventional clothes dryers directly to outdoors <input checked="" type="checkbox"/> c-vii) Install drain and drain pan for condensing clothes dryers <input checked="" type="checkbox"/> d) Durability strategies incorporated into project documentation <input checked="" type="checkbox"/> e) Durability measures listed in durability inspection checklist						

2.2	Durability Management ( <i>meet one of the following</i> )	<i>Prereq.</i>			Y	
	<input type="checkbox"/> Builder has a quality management process in place	<input checked="" type="checkbox"/>	Builder conducted inspection using durability inspection checklist			
2.3	Third-Party Durability Management Verification	3	0	0	3	
<b>3. Innovative or Regional Design</b>						
3.1	<input checked="" type="checkbox"/> Innovation 1 (ruling #): <input type="text"/>	1	0	0	0	
3.2	<input checked="" type="checkbox"/> Innovation 2 (ruling #): <input type="text"/>	1	0	0	0	
3.3	<input checked="" type="checkbox"/> Innovation 3 (ruling #): <input type="text"/>	1	0	0	0	
3.4	<input checked="" type="checkbox"/> Innovation 4 (ruling #): <input type="text"/>	1	0	0	0	
<b>Location &amp; Linkages (LL)</b> (Minimum 0 LL Points Required)		<b>Max: 10</b>	<b>Y:5</b>	<b>M:0</b>	<b>Notes</b>	<b>Final: 9</b>
<b>1. LEED for Neighborhood Development</b>						
1	LEED for Neighborhood Development	10	0	0	N	0
<b>2. Site Selection</b>						
2	<input checked="" type="checkbox"/> Site Selection ( <i>meet all of the following</i> )	2	2	0		2
	<input checked="" type="checkbox"/> a) Built above 100-year floodplain defined by FEMA	<input checked="" type="checkbox"/>	d) Not built on land that was public parkland prior to acquisition			
	<input checked="" type="checkbox"/> b) Not built on habitat for threatened or endangered species	<input checked="" type="checkbox"/>	e) Not built on land with prime soils, unique soils, or soils of state significance			
	<input checked="" type="checkbox"/> c) Not built within 100 ft of water, including wetlands					
<b>3. Preferred Locations</b>						
3.1	Edge Development	1	0	0		0
OR	3.2 Infill	2	0	0		2
AND/OR	3.3 Previously Developed	1	0	0		1
<b>4. Infrastructure</b>						
4	Existing Infrastructure	1	0	0		1
<b>5. Community Resources / Transit</b>						
5.1	Basic Community Resources / Transit ( <i>meet one of the following</i> )	1	1	0		0
	<input type="checkbox"/> a) Within 1/4 mile of 4 basic community resources	<input type="checkbox"/>	c) Within 1/2 mile of transit services providing 30 rides per weekday			
	<input type="checkbox"/> b) Within 1/2 mile of 7 basic community resources					
OR	5.2 Extensive Community Resources / Transit ( <i>meet one of the following</i> )	2	2	0	Metro Transit Route 6 - 102 rides/day	2
	<input type="checkbox"/> a) Within 1/4 mile of 7 basic community resources	<input checked="" type="checkbox"/>	c) Within 1/2 mile of transit services providing 60 rides per weekday			
	<input type="checkbox"/> b) Within 1/2 mile of 11 basic community resources					
OR	5.3 Outstanding Community Resources / Transit ( <i>meet one of the following</i> )	3	0	0		0
	<input type="checkbox"/> a) Within 1/4 mile of 11 basic community resources	<input type="checkbox"/>	c) Within 1/2 mile of transit services providing 125 rides per weekday			
	<input type="checkbox"/> b) Within 1/2 mile of 14 basic community resources					
<b>6. Access to Open Space</b>						
6	Access to Open Space	1	1	0	0.4 mi to Arden Park	1

Sustainable Sites (SS) (Minimum 5 SS Points Required)		Max: 22	Y:7	M:1	Notes	Final: 13.5
<b>1. Site Stewardship</b>						
1.1	Erosion Controls During Construction ( <i>meet all of the following</i> )	Prereq.				Y
	<input checked="" type="checkbox"/> a) Stockpile and protect disturbed topsoil from erosion.		<input checked="" type="checkbox"/> d) Provide swales to divert surface water from hillsides			
	<input checked="" type="checkbox"/> b) Control the path and velocity of runoff with silt fencing or equivalent.		<input checked="" type="checkbox"/> e) Use tiers, erosion blankets, compost blankets, etc. on sloped areas.			
	<input checked="" type="checkbox"/> c) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.					
1.2	Minimize Disturbed Area of Site ( <i>meet the appropriate requirements</i> )	1	0	0	N 0.12 acre lot	1
	Where the site is not previously developed, meet all the following:					
	<input type="checkbox"/> a) Develop tree / plant preservation plan with "no-disturbance" zones					
	<input type="checkbox"/> b) Leave 40% of buildable lot area, not including area under roof, undisturbed					
	OR Where the site is previously developed, meet all the following:					
	<input type="checkbox"/> c) Develop tree / plant preservation plan with "no-disturbance" zones AND					
	<input type="checkbox"/> Rehabilitate lot; undo soil compaction and remove invasive plants AND					
	<input type="checkbox"/> Meet the requirements of SS 2.2					
	OR <input checked="" type="checkbox"/> d) Build on a lot of 1/7 acre or less, or 7 units per acre.					
<b>2. Landscaping</b>						
2.1	<input checked="" type="checkbox"/> No Invasive Plants	Prereq.				Y
2.2	<input checked="" type="checkbox"/> Basic Landscaping Design ( <i>meet all of the following</i> )	2	0	0		2
	<input checked="" type="checkbox"/> a) Any turf must be drought-tolerant.		<input checked="" type="checkbox"/> d) Add mulch or soil amendments as appropriate.			
	<input checked="" type="checkbox"/> b) Do not use turf in densely shaded areas.		<input checked="" type="checkbox"/> e) All compacted soil must be tilled to at least 6 inches.			
	<input checked="" type="checkbox"/> c) Do not use turf in areas with slope of 25%					
AND/OR	2.3 <input checked="" type="checkbox"/> Limit Conventional Turf	3	0	0		2
	<input type="text" value="39%"/> Percentage of designed landscape softscape area that is turf					
AND/OR	2.4 <input checked="" type="checkbox"/> Drought-Tolerant Plants	2	0	0		1
	<input type="text" value="85%"/> Percentage of installed plants that are drought-tolerant					
OR	2.5 <input checked="" type="checkbox"/> Reduce Overall Irrigation Demand by at Least 20%	6	0	0		0
	<input type="text"/> Percentage reduction in estimated irrigation water demand				(calculate)	
<b>3. Reduce Local Heat Island Effects</b>						
3	<input checked="" type="checkbox"/> Reduce Local Heat Island Effects ( <i>meet one of the following</i> )	1	0	0		0
	<input type="checkbox"/> a) Locate trees / plantings to provide shade for 50% of hardscapes		<input type="checkbox"/> b) Install light-colored, high-albedo materials for 50% of sidewalks, patios, and driveways			

4. Surface Water Management						
4.1	Permeable Lot	4	3	0	3	
	<input type="text" value="89%"/> vegetative landscape					
	<input type="text" value="3%"/> permeable paving					
	<input type="text"/> impermeable surfaces directed to infiltration features					
	<input type="text" value="8%"/> other impermeable surfaces (areas not counted towards credit)					
4.2	Permanent Erosion Controls ( <i>meet one of the following</i> )	1	1	1	0	
	<input checked="" type="checkbox"/> a) For portions of lot on steep slope, use terracing and retaining walls					
	<input checked="" type="checkbox"/> b) Plant trees, shrubs, or groundcover					
4.3	Management of Runoff from Roof ( <i>meet any, see Rating System for pts</i> )	2	0	0	1	
	<input checked="" type="checkbox"/> a) Install permanent stormwater controls to manage runoff from the home					
	<input checked="" type="checkbox"/> b) Install vegetated roof to cover 50% of roof area					
	<input checked="" type="checkbox"/> c) Install vegetated roof to cover 100% of roof area					
	<input checked="" type="checkbox"/> d) Have lot designed by professional to manage runoff from home on-site					
				Vegetated swales + 158 sq. ft. rain garden		
5. Nontoxic Pest Control						
5	Pest Control Alternatives ( <i>meet any of the following, 1/2 pt each</i> )	2	1	0	1.5	
	<input checked="" type="checkbox"/> a) Keep all exterior wood at least 12" above soil					
	<input checked="" type="checkbox"/> b) Seal external cracks, joints, etc. with caulking and install pest-proof screens					
	<input checked="" type="checkbox"/> c) Include no wood-to-concrete connections, or separate connections with dividers					
	<input checked="" type="checkbox"/> d) Install landscaping so mature plants are 24" from home					
	e) In 'moderate' to 'very heavy' termite risk areas:					
	<input checked="" type="checkbox"/> i) Treat all cellulosic material with borate product to 3' above foundation					
	<input checked="" type="checkbox"/> ii) Install sand or diatomaceous earth barrier					
	<input checked="" type="checkbox"/> iii) Install steel mesh barrier termite control system					
	<input checked="" type="checkbox"/> iv) Install non-toxic termite bait system					
	<input checked="" type="checkbox"/> v) Use noncellulosic wall structure					
	<input checked="" type="checkbox"/> vi) Use solid concrete foundation walls or pest-proof masonry wall design					
6. Compact Development						
6.1	Moderate Density	2	2	0	2	
	<input type="text" value="1"/> # of total units on the lot					
	<input type="text" value="0.1"/> lot size (acres)					
	<input type="text" value="8.0"/> density (units/acre)					
OR	6.2 High Density	3	0	0	0	
OR	6.3 Very High Density	4	0	0	0	
Water Efficiency (WE) (Minimum 3 WE Points Required)		Max: 15	Y:3	M:0	Notes	Final: 3
1. Water Reuse						
1.1	Rainwater Harvesting System	4	0	0	N	0
	<input type="text"/> Percentage of roof area used for harvesting					
	<input type="text"/> Application					
AND/OR	1.2 Graywater Reuse System	1	0	0	N	0
OR	1.3 Use of Municipal Recycled Water System	3	0	0	N	0

2. Irrigation System						
2.1	<input checked="" type="checkbox"/> High-Efficiency Irrigation System (meet any of the following, 1 pt each)	3	0	0	N	0
	<input type="checkbox"/> a) Irrigation system designed by EPA Water Sense certified professional <input type="checkbox"/> b) Irrigation system with head-to-head coverage <input type="checkbox"/> c) Install central shut-off valve <input type="checkbox"/> d) Install submeter for the irrigation system <input type="checkbox"/> e) Use drip irrigation for 50% of planting beds <input type="checkbox"/> f) Create separate zones for each type of bedding					
	<input type="checkbox"/> g) Install timer or controller for each watering zone <input type="checkbox"/> h) Install pressure-regulating devices <input type="checkbox"/> i) High-efficiency nozzles with distribution uniformity of at least 0.70. <input type="checkbox"/> j) Install check valves in heads <input type="checkbox"/> k) Install moisture sensor or rain delay controller					
AND/OR	2.2 Third-party Inspection	1	0	0		0
OR	2.3 <input checked="" type="checkbox"/> Reduce Overall Irrigation Demand by at Least 45%	4	0	0		0
	<input type="text" value=""/> Percentage reduction in estimated irrigation water demand				<a href="#">(calculate)</a>	
3. Indoor Water Use						
3.1	High-Efficiency Fixtures and Fittings (meet any of the following, 1 pt each)	3	3	0		3
	<input checked="" type="checkbox"/> a) Average flow rate of lavatory faucets is ≤ 2.00 gpm <input checked="" type="checkbox"/> b) Average flow rate for all showers is ≤ 2.00 gpm per stall					
	<input type="checkbox"/> c) Average flow rate for all toilets is ≤ 1.30 gpf; OR <input checked="" type="checkbox"/> Toilets are dual-flush; OR <input type="checkbox"/> Toilets meet the EPA Water Sense specification					
3.2	Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each)	6	0	0		0
	<input type="checkbox"/> a) Average flow rate of lavatory faucets is ≤ 1.50 gpm; OR <input type="checkbox"/> Lavatory faucets meet the EPA Water Sense specification					
	<input type="checkbox"/> b) Average flow rate for all showers ≤ 1.75 gpm per stall <input type="checkbox"/> c) Average flow rate for all toilets is ≤ 1.10 gpf					
Energy & Atmosphere (EA) (Minimum 0 EA Points Required)		Max: 38	Y:25.5	M:0	Notes	Final: 24.5
<i>Important note: projects registered after October 1st, 2014 that use the performance path must achieve a HERS Index of 70 or lower.</i>						
1. Optimize Energy Performance						
1.1	Performance of ENERGY STAR for Homes	Prereq.			Y	
1.2	Exceptional Energy Performance	34	22.5	0	22.5	
	<input type="text" value="6"/> IECC climate zone		<input type="text" value="44"/> HERS Index			
7. Water Heating						
7.1	<input checked="" type="checkbox"/> Efficient Hot Water Distribution System (meet one of the following)	2	2	0	0	
	<input type="checkbox"/> a) Structured plumbing system <input type="checkbox"/> b) Central manifold distribution system					
	<input type="checkbox"/> c) Compact design of conventional system					
7.2	Pipe Insulation	1	1	0	1	
11. Residential Refrigerant Management						
11.1	Refrigerant Charge Test	Prereq.			Y	
11.2	Appropriate HVAC Refrigerants (meet one of the following)	1	0	0	1	
	<input type="checkbox"/> a) Use no refrigerants <input checked="" type="checkbox"/> b) Use non-HCFC refrigerants					
	<input type="checkbox"/> c) Use refrigerants that complies with global warming potential equation					

**1. Material-Efficient Framing**

	1.1	Framing Order Waste Factor	<i>Prereq.</i>				<b>Y</b>
	1.2	Detailed Framing Documents	<b>1</b>	<b>1</b>	<b>0</b>		<b>0</b>
<b>AND/OR</b>	1.3	Detailed Cut List and Lumber Order	<b>1</b>	<b>0</b>	<b>0</b>	<b>N</b>	<b>0</b>
		<input type="checkbox"/> Requirements of MR 1.2 have been met				<input type="checkbox"/> Detailed cut list and lumber order corresponding to framing plans or scopes	
<b>AND/OR</b>	1.4	Framing Efficiencies ( <i>meet any of the following, see Rating System for pts</i> )	<b>3</b>	<b>3</b>	<b>0</b>		<b>3</b>
		<input type="checkbox"/> Precut framing packages				<input checked="" type="checkbox"/> Stud spacing greater than 16" on center	
		<input checked="" type="checkbox"/> Open-web floor trusses				<input checked="" type="checkbox"/> Ceiling joist spacing greater than 16" on center	
		<input type="checkbox"/> Structural insulated panel walls				<input checked="" type="checkbox"/> Floor joist spacing greater than 16" on center	
		<input type="checkbox"/> Structural insulated panel roof				<input checked="" type="checkbox"/> Roof rafter spacing greater than 16" on center	
		<input type="checkbox"/> Structural insulated panel floors				<input checked="" type="checkbox"/> Two of the following: Size headers for loads; ladder blocking; drywall clips; 2-stud corners	
<b>OR</b>	1.5	Off-site Fabrication ( <i>meet one of the following</i> )	<b>4</b>	<b>0</b>	<b>0</b>		<b>0</b>
		<input type="checkbox"/> a) Panelized construction				<input type="checkbox"/> b) Modular, prefabricated construction	

**2. Environmentally Preferable Products**

	2.1	<input checked="" type="checkbox"/> FSC Certified Tropical Wood ( <i>meet all of the following</i> )	<i>Prereq.</i>				<b>Y</b>
		<input checked="" type="checkbox"/> a) Provide suppliers with a notice of preference for FSC products; AND <input checked="" type="checkbox"/> Request country of manufacture for each wood product				<input checked="" type="checkbox"/> b) No tropical wood installed (exceptions for FSC-certified or reclaimed wood)	
	2.2	<input checked="" type="checkbox"/> Environmentally Preferable Products ( <i>meet any, 1/2 pt each</i> )	<b>8</b>	<b>2</b>	<b>0</b>		<b>2</b>

<b>Assembly : component</b>	<b>(a) EPP</b>	<b>(b) Low emission</b>	<b>(c) Local production</b>
Exterior wall: framing	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Exterior wall: siding or masonry	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Floor: flooring	<input type="checkbox"/> (45%) type: _____	<input checked="" type="checkbox"/> 90% hard flooring	<input type="checkbox"/> (45%)
Floor: flooring	<input type="checkbox"/> (90%) type: _____	<input type="checkbox"/> SCS FloorScore	<input type="checkbox"/> (90%)
Floor: flooring	<input type="checkbox"/>	<input type="checkbox"/> Green Label Plus	<input type="checkbox"/>
Floor: framing	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Foundation: aggregate	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Foundation: cement	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Interior wall: framing	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Interior wall, ceiling: gypsum board	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Interior wall, ceiling, millwork: paint	<input type="checkbox"/> type: _____	<input checked="" type="checkbox"/> type: <u>Zero VOC paint</u>	<input type="checkbox"/>
Landscape: decking and patio	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other: cabinet	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other: counter	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other: door	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other : interior trim	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other : adhesive, sealant	<input type="checkbox"/>	<input type="checkbox"/> type: _____	<input type="checkbox"/>
Other : window frame	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Roof: framing	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Roof: roofing	<input checked="" type="checkbox"/> type: <u>28% Recycled Steel</u>		<input type="checkbox"/>
Roof, floor, wall: cavity insulation	<input type="checkbox"/> type: _____	<input type="checkbox"/> type: _____	<input type="checkbox"/>
Roof, floor, wall (2 of 3): sheathing	<input type="checkbox"/> type: _____		<input type="checkbox"/>
Other: water supply piping	<input checked="" type="checkbox"/> type: <u>PEX</u>		<input type="checkbox"/>
Other: driveway	<input type="checkbox"/> type: _____		<input type="checkbox"/>



3. Waste Management						
3.1	Construction Waste Management Planning ( <i>meet both of the following</i> )	Prereq.			Y	
	<input checked="" type="checkbox"/> a) Investigate local options for waste diversion		<input checked="" type="checkbox"/> b) Document diversion rate for construction waste			
3.2	Construction Waste Reduction ( <i>use one of the following methods</i> )	3	0	0	0	
	<input type="text" value="6.5"/> a) pounds waste / square foot					
	<input type="text"/> cubic yards waste / 1,000 square feet					
	<input type="text"/> b) percentage of waste diverted					
Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)		Max: 21	Y:8	M:0	Notes	Final: 13
1. ENERGY STAR with Indoor Air Package						
1	ENERGY STAR with Indoor Air Package	13	0	0		0
2. Combustion Venting						
2.1	Basic Combustion Venting Measures ( <i>meet all of the following</i> )	Prereq.			Y	
	<input checked="" type="checkbox"/> a) no unvented combustion appliances		<input checked="" type="checkbox"/> d) space, water heating equipment designed with closed combustion; OR			
	<input checked="" type="checkbox"/> b) carbon monoxide monitors on each floor (of each unit, if applicable)		<input checked="" type="checkbox"/> space and water heating equipment has power-vented exhaust; OR			
	<input type="checkbox"/> c) no fireplace installed, OR		<input type="checkbox"/> space and water heating equipment located in detached or open-air facility; OR			
	<input checked="" type="checkbox"/> all fireplaces and woodstoves have doors		<input type="checkbox"/> no space- or water-heating equipment with combustion			
2.2	Enhanced Combustion Venting Measures ( <i>meet one of the following</i> )	2	1	0	2	
	<b>Type of Fireplace or stove</b>	<b>Better practice (1 pt)</b>	<b>Best practice (2 pts)</b> <i>(must also meet Better Practice)</i>			
	None		<input type="checkbox"/> granted automatically			
	Masonry wood-burning fireplace	<input type="checkbox"/> masonry heater	<input type="checkbox"/> back-draft potential test			
	Factory-built wood-burning fireplace	<input type="checkbox"/> listed by testing lab and meets EPA standards	<input type="checkbox"/> back-draft potential test			
	Woodstove and fireplace insert	<input type="checkbox"/> listed by testing lab and meets EPA standards	<input type="checkbox"/> back-draft potential test			
	Natural gas, propane, or alcohol stove	<input checked="" type="checkbox"/> listed, power- or direct-vented, fixed doors	<input checked="" type="checkbox"/> electronic pilot			
	Pellet stove	<input type="checkbox"/> EPA certified or meets safety requirements	<input type="checkbox"/> power- or direct-venting			
3. Moisture Control						
3	Moisture Load Control ( <i>meet one of the following</i> )	1	0	0		0
	<input type="checkbox"/> a) Additional dehumidification system		<input type="checkbox"/> b) Central HVAC system equipped with additional dehumidification mode			
4. Outdoor Air Ventilation						
4.1	<del>Basic Outdoor Air Ventilation</del> ( <i>meet one of the following</i> )	Prereq.			Y	
	<input type="checkbox"/> a) Qualifies under ASHRAE Std. 62.2-2007 climate exemption.		<input type="checkbox"/> c) Intermittent ventilation			
	<input checked="" type="checkbox"/> b) Continuous ventilation		<input type="checkbox"/> d) Passive ventilation			
4.2	<del>Enhanced Outdoor Air Ventilation</del> ( <i>meet one of the following</i> )	2	2	0	2	
	<input type="checkbox"/> a) Meets EQ 4.1 part (a), active ventilation system installed		<input checked="" type="checkbox"/> b) Install heat recovery system			
4.3	Third-Party Performance Testing	1	0	0	1	

<b>5. Local Exhaust</b>						
5.1	⚡ Basic Local Exhaust (meet all of the following)	Prereq.			Y	
	<input checked="" type="checkbox"/> a) Bathroom and kitchen exhaust meets ASHRAE Std. 62.2 air flow requirement		<input checked="" type="checkbox"/> c) Air exhausted to outdoors			
	<input checked="" type="checkbox"/> b) Fans and ducts designed and installed to ASHRAE Std. 62.2		<input checked="" type="checkbox"/> d) ENERGY STAR labeled bathroom exhaust fans			
5.2	Enhanced Local Exhaust ( <i>meet one of the following</i> )	1	0	0	1	
	<input type="checkbox"/> a) Occupancy sensor		<input checked="" type="checkbox"/> c) Automatic timer tied to switch to operate fan for 20+ minutes post-occupancy			
	<input type="checkbox"/> b) Automatic humidistat controller		<input type="checkbox"/> d) Continuously operating exhaust fan			
5.3	Third-Party Performance Testing	1	0	0	1	
<b>6. Distribution of Space Heating and Cooling</b>						
6.1	⚡ Room-by-Room Load Calculations	Prereq.			Y	
6.2	Return Air Flow / Room-by-Room Controls (meet one of the following)	1	0	0	1	
	A. Forced-Air Systems		B. Nonducted HVAC Systems			
	<input type="checkbox"/> a) Return air opening of 1 sq. inch per cfm of supply		<input type="checkbox"/> Flow control valves on every radiator; OR			
	<input checked="" type="checkbox"/> b) Limited pressure differential between closed room and adjacent spaces		<input type="checkbox"/> Radiant floor system with thermostatic controls in every room			
6.3	Third-Party Performance Test / Multiple Zones (meet one of the following)	2	0	0	0	
	A. Forced-Air Systems		3 zones, infloor heat in basement			
	<input type="checkbox"/> Have supply air flow rates in each room tested and confirmed		B. Nonducted HVAC Systems			
			<input type="checkbox"/> Install at least two distinct zones with independent thermostat control			
<b>7. Air Filtering</b>						
7.1	Good Filters	Prereq.			MERV 8	Y
7.2	Better Filters	1	0	0	0	
OR	7.3 Best Filters	2	0	0	0	
<b>8. Contaminant Control</b>						
8.1	⚡ Indoor Contaminant Control during Construction	1	0	0	1	
8.2	Indoor Contaminant Control ( <i>meet any of the following, 1 pt each</i> )	2	1	0	1	
	<input type="checkbox"/> a) Design and install permanent walk-off mats at each entry		<input type="checkbox"/> c) Install central vacuum system with exhaust to outdoors			
	<input checked="" type="checkbox"/> b) Design shoe removal and storage space near primary entryway					
8.3	⚡ Preoccupancy Flush	1	0	0	0	
<b>9. Radon Protection</b>						
9.1	⚡ Radon-Resistant Construction in High-Risk Areas	Prereq.			Y	
9.2	⚡ Radon-Resistant Construction in Moderate-Risk Areas	1	1	0	0	

<b>10. Garage Pollutant Protection</b>					
10.1	No HVAC in Garage	<i>Prereq.</i>			<b>Y</b>
10.2	Minimize Pollutants from Garage (meet all of the following)	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
	a) In conditioned spaces above garage:				
	<input type="checkbox"/> Seal all penetrations and connecting floor and ceiling joist bays				
	b) In conditioned spaces next to garage				
	<input type="checkbox"/> Weather-strip all doors				
	<input type="checkbox"/> Carbon monoxide detectors in rooms that share a door with garage				
	<input type="checkbox"/> Seal all penetrations and cracks at the base of walls				
<b>AND/OR</b>	10.3 Exhaust Fan in Garage (meet one of the following)	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<input type="checkbox"/> a) Fan runs continuously				
	<input type="checkbox"/> b) Fan designed with automatic timer control				
<b>OR</b>	10.4 Detached Garage or No Garage	<b>3</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Awareness &amp; Education (AE)</b> (Minimum 0 AE Points Required)		<b>Max: 3</b>	<b>Y:1</b>	<b>M:0</b>	<b>Notes</b>
<b>1. Education of the Homeowner or Tenant</b>					<b>Final: 1</b>
1.1	<del>Basic Operations Training (meet both of the following)</del>	<i>Prereq.</i>			<b>Y</b>
	<input checked="" type="checkbox"/> a) Operations and training manual				
	<input checked="" type="checkbox"/> b) One-hour walkthrough with occupant(s)				
1.2	<del>Enhanced Training</del>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
1.3	Public Awareness (meet three of the following)	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<input type="checkbox"/> a) Open house on at least four weekends				
	<input type="checkbox"/> b) Website about features and benefits of LEED homes				
	<input type="checkbox"/> c) Newspaper article on the project				
	<input type="checkbox"/> d) Display LEED signage on the exterior of the home				
<b>2. Education of the Building Manager</b>					
2	<del>Education of the Building Manager (meet both of the following)</del>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<input type="checkbox"/> a) Operations and training manual				
	<input type="checkbox"/> b) One-hour walkthrough with building manager				

**USGBC LEGAL DISCLAIMER**

USGBC makes no warranty with respect to any LEED certified project, including any warranty of habitability, merchantability, or fitness for a particular purpose. There are no warranties, express or implied, written or oral, statutory or otherwise, with respect to the certifications provided by USGBC. By way of example only, and without limiting the broad scope of the foregoing, it is understood that LEED certification, whether at the Certified level or any other level, does not mean that the project is structurally sound or safe, constructed in accordance with applicable laws, regulations or codes, free of mold or mildew, free of volatile organic compounds or allelegens, or free of soil gases including radon.

**SIGNATURES BY RESPONSIBLE PARTIES**

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been met for the indicated credits and will, if audited, provide the necessary supporting documents.

Project Team Leader   
Signature

Company   
Date

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the required inspections and performance testing for the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been completed. I have evaluated this project's documentation package and conducted the necessary QA/QC procedures with the Green Rater, and I hereby declare and affirm to USGBC that the homes included in this submittal are ready to earn LEED for Homes certification, as per the attached checklist.

Provider QAD   
Signature

Company   
Date

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the required inspections and performance testing for the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been completed.

I also hereby confirm that all verification services were performed in accordance with the LEED for Homes [Verification & Submittal Guidelines and Addendum](#).

Green Rater   
Signature

Company   
Date

By affixing my signature below, the undersigned does hereby declare and affirm to the USGBC that the required inspections and performance testing for the LEED for Homes requirements, as specified in the LEED for Homes Rating System, have been completed.

I also hereby confirm that all verification services were performed in accordance with the LEED for Homes [Verification & Submittal Guidelines and Addendum](#).

Green Rater   
Signature

Company   
Date

# LEED for Homes Project Checklist

## Addendum: Prescriptive Approach for Energy and Atmosphere (EA) Credits

Points cannot be earned in both the Prescriptive (below) and the Performance paths of the EA section.

	Max Pts. Available	Y / Pts	Preliminary Rating Maybe	No	Notes	Project Points
<b>Energy &amp; Atmosphere (EA)</b> (Must earn points equal to HERS 70)	<b>Max: 38</b>	<b>Y:25.5</b>	<b>M:0</b>		<b>Notes</b>	<b>Final: 24.5</b>
<i>Important note: projects registered after October 1st, 2014 that use the prescriptive path must achieve at least the following: 13 points (projects in climate zone 1-5), or 9.5 points (projects in climate zone 6-8)</i>						
<b>2. Insulation</b>						
2.1 Basic Insulation (meet both of the following)	<i>Prereq.</i>					
<input type="checkbox"/> a) Insulation meets R-value requirements of IECC	<input type="checkbox"/> b) Insulation meets HERS Grade II specifications for installation					
2.2 Enhanced Insulation (meet both of the following)	2	0	0			0
<input type="checkbox"/> a) Insulation exceeds R-value requirements of IECC by 5%	<input type="checkbox"/> b) Insulation meets HERS Grade I specifications for installation					
<b>3. Air Infiltration</b>						
3.1 Reduced Envelope Leakage	<i>Prereq.</i>					
<input style="width: 50px; height: 15px;" type="text"/> Air leakage rate in ACH50						
3.2 Greatly Reduced Envelope Leakage	2	0	0			0
<b>OR</b> 3.3 Minimal Envelope Leakage	3	0	0			0
<b>4. Windows</b>						
4.1 Good Windows (meet all of the following)	<i>Prereq.</i>					
<input type="checkbox"/> a) Windows and glass doors meet ENERGY STAR BOP window specifications	<input type="checkbox"/> b) Skylight glazing area is ≤ 3% of floor area AND					
	<input type="checkbox"/> Skylights meet ENERGY STAR requirements for skylights					
4.2 Enhanced Windows	2	0	0			0
<b>OR</b> 4.3 Exceptional Windows	3	0	0			0
<b>5. Heating and Cooling Distribution System</b>						
5.1 Reduced Distribution Losses (meet all of the following, as appropriate)	<i>Prereq.</i>					
A. Forced-Air Systems	B. Nonducted HVAC Systems					
<input type="checkbox"/> a) Duct leakage of ≤ 4.0 CFM at 25 Pascals per 100 sq.ft.	<input type="checkbox"/> At least R-3 insulation around pipes in unconditioned spaces					
<input type="checkbox"/> b) No ducts in exterior walls unless extra insulation is added						
<input type="checkbox"/> c) At least R-6 insulation around ducts in unconditioned spaces						
5.2 Greatly Reduced Distribution Losses (meet the following, as appropriate)	2	0	0			0
A. Forced-Air Systems	B. Nonducted HVAC Systems					
<input type="checkbox"/> Duct leakage of ≤ 3.0 CFM at 25 Pascals per 100 sq.ft.	<input type="checkbox"/> Keep the boiler and pipes entirely within conditioned envelope					
<b>OR</b> 5.3 Minimal Distribution Losses (meet one of the following, as appropriate)	3	0	0			0
A. Forced-Air Systems	B. Nonducted HVAC Systems					
<input type="checkbox"/> a) Duct leakage of ≤ 1.0 CFM at 25 Pascals per 100 sq.ft.	<input type="checkbox"/> Outdoor reset control to set distribution temp. based on outdoor temp.					
<input type="checkbox"/> b) Air-handler and all ductwork is within conditioned envelope and EA 3.3 is met						
<input type="checkbox"/> c) Air-handler and all ductwork visibly within conditioned spaces (not in walls, etc.)						

<b>6. Space Heating and Cooling Equipment</b>				
<b>6.1</b> <input checked="" type="checkbox"/> Good HVAC Design and Installation ( <i>meet all of the following</i> )		<b>Prereq.</b>		
<input type="checkbox"/> a) Design and size HVAC equipment using ACCA Manual J or equivalent		<input type="checkbox"/> c) Install ENERGY STAR programmable thermostat OR		
<input type="checkbox"/> b) Install efficient heating AND cooling equipment (see Table)		<input type="checkbox"/> Heat pump or hydronic installed and exempted from part (c)		
<input type="text"/> Type of cooling system		<input type="text"/> Type of heating system		
<input type="text"/> Cooling efficiency (SEER / EER)		<input type="text"/> Heating Efficiency (AFUE / HSPF / COP)		
<b>6.2</b> High-Efficiency HVAC		<b>2</b>	<b>0</b>	<b>0</b>
<b>OR 6.3</b> Very High Efficiency HVAC		<b>4</b>	<b>0</b>	<b>0</b>
<b>7. Water Heating</b>				
<b>7.1</b> <input checked="" type="checkbox"/> Efficient Hot Water Distribution System ( <i>meet one of the following</i> )		<b>2</b>	<b>0</b>	<b>0</b>
<input type="checkbox"/> a) Structured plumbing system		<input type="checkbox"/> c) Compact design of conventional system		
<input type="checkbox"/> b) Central manifold distribution system				
<b>7.2</b> Pipe Insulation		<b>1</b>	<b>0</b>	<b>0</b>
<b>7.3</b> Efficient Domestic Hot Water Equipment		<b>3</b>	<b>0</b>	<b>0</b>
<input type="text"/> Type of DHW system				
<input type="text"/> Efficiency	<input type="text"/> Solar: Percentage of annual DHW load			
<b>8. Lighting</b>				
<b>8.1</b> ENERGY STAR Lights		<b>Prereq.</b>		
<b>8.2</b> Improved Lighting ( <i>meet one of the following, see Rating System for pts</i> )		<b>1.5</b>	<b>0</b>	<b>0</b>
<input type="checkbox"/> a) Indoor lighting - 3 additional ENERGY STAR lights in high-use rooms		<input type="checkbox"/> b) Exterior lighting - motion sensor controls or integrated PV		
<b>OR 8.3</b> Advanced Lighting Package ( <i>meet one of the following</i> )		<b>3</b>	<b>0</b>	<b>0</b>
<input type="checkbox"/> a) 60% of fixtures are ENERGY STAR fixtures		<input type="checkbox"/> b) 80% of lamps are ENERGY STAR CFLs		
<b>9. Appliances</b>				
<b>9.1</b> High-Efficiency Appliances ( <i>meet any, see Rating System for pts</i> )		<b>2</b>	<b>0</b>	<b>0</b>
<input type="checkbox"/> a) ENERGY STAR labeled refrigerator		<input type="checkbox"/> c) ENERGY STAR labeled dishwasher using 6.0 gallons per cycle or less		
<input type="checkbox"/> b) ENERGY STAR labeled ceiling fans in living/family room and all bedrooms		<input type="checkbox"/> d) ENERGY STAR clothes washer		
<b>9.2</b> Water-Efficiency Clothes Washer		<b>1</b>	<b>0</b>	<b>0</b>
<b>10. Renewable Energy</b>				
<b>10</b> <input checked="" type="checkbox"/> Renewable Energy System		<b>10</b>	<b>0</b>	<b>0</b>
<input type="text"/> Reference electric load, kWh/yr (based on HERS model)		<input type="text"/> Electricity supplied by renewable system, kWh/yr		
<input type="text"/> 0.0% Percentage of annual reference electric load met by renewable system				
<b>11. Residential Refrigerant Management</b>				
<b>11.1</b> Refrigerant Charge Test		<b>Prereq.</b>		
<b>11.2</b> Appropriate HVAC Refrigerants ( <i>meet one of the following</i> )		<b>1</b>	<b>0</b>	<b>0</b>
<input type="checkbox"/> a) Use no refrigerants		<input type="checkbox"/> c) Use refrigerants that complies with global warming potential equation		
<input type="checkbox"/> b) Use non-HCFC refrigerants				