



for Homes

# LEED for Homes Simplified Project Checklist

Builder Name:	Handcraft Homes
Project Team Leader (if different):	Wayne Grebe, Handcraft Homes
Home Address (Street/City/State):	3072 Judes Ferry Road, Powhatan, Virginia

**Project Description:**

**Adjusted Certification Thresholds**

Building type: *Single detached*  
 # of bedrooms: **3**

Project type: *Custom*  
 Floor area: **1866**

Certified: **44.5** Gold: **74.5**  
 Silver: **59.5** Platinum: **89.5**

<b>Project Point Total</b>	<b>Final Credit Category Total Points</b>				
Prelim: <i>64 + 30 maybe pts</i>	Final: <b>65.5</b>	ID: <b>6</b>	SS: <b>10</b>	EA: <b>24</b>	EQ: <b>10</b>
<b>Certification Level</b>		LL: <b>2</b>	WE: <b>3</b>	MR: <b>8.5</b>	AE: <b>2</b>
Prelim: <i>Silver</i>	Final: <b>Silver</b>				

date last updated :  
 last updated by :

**Max** **Project Points**  
**Points** **Preliminary** **Final**

<b>Innovation and Design Process (ID)</b>		(No Minimum Points Required)		Max	Y/Pts	Maybe	No	Y/Pts	
<b>1. Integrated Project Planning</b>	1.1 Preliminary Rating			Prereq	Y			Y	
	1.2 Integrated Project Team			1	1	0	0	0	
	1.3 Professional Credentialed with Respect to LEED for Homes			1	0	0	N	0	
	1.4 Design Charrette			1	0	0	N	0	
	1.5 Building Orientation for Solar Design			1	0	0		1	
<b>2. Durability Management Process</b>	2.1 Durability Planning			Prereq	Y			Y	
	2.2 Durability Management			Prereq	Y			Y	
	2.3 Third-Party Durability Management Verification			3	3	0		3	
<b>3. Innovative or Regional Design</b>	3.1 Innovation #1			1	0	0		1.5	
	3.2 Innovation #2			1	0	0		0.5	
	3.3 Innovation #3			1	0	0	N	0	
	3.4 Innovation #4			1	0	0	N	0	
<i>Sub-Total for ID Category:</i>				<b>11</b>	<b>4</b>	<b>0</b>		<b>6</b>	
<b>Location and Linkages (LL)</b>		(No Minimum Points Required)		OR	Max	Y/Pts	Maybe	No	Y/Pts
<b>1. LEED ND</b>	1 LEED for Neighborhood Development		<b>LL2-6</b>		10	0	0	N	0
<b>2. Site Selection</b>	2 Site Selection				2	0	2		2
<b>3. Preferred Locations</b>	3.1 Edge Development		<b>LL 3.2</b>		1	1	0		0
	3.2 Infill				2	0	0	N	0
	3.3 Previously Developed				1	0	0	N	0
<b>4. Infrastructure</b>	4 Existing Infrastructure				1	0	0	N	0
<b>5. Community Resources/ Transit</b>	5.1 Basic Community Resources / Transit		<b>LL 5.2, 5.3</b>		1	0	0	N	0
	5.2 Extensive Community Resources / Transit		<b>LL 5.3</b>		2	0	0	N	0
	5.3 Outstanding Community Resources / Transit				3	0	0	N	0
<b>6. Access to Open Space</b>	6 Access to Open Space				1	0	0	N	0
<i>Sub-Total for LL Category:</i>				<b>10</b>	<b>1</b>	<b>2</b>			<b>2</b>
<b>Sustainable Sites (SS)</b>		(Minimum of 5 SS Points Required)		OR	Max	Y/Pts	Maybe	No	Y/Pts
<b>1. Site Stewardship</b>	1.1 Erosion Controls During Construction			Prereq	Y				Y
	1.2 Minimize Disturbed Area of Site			1	1	0			1
<b>2. Landscaping</b>	2.1 No Invasive Plants			Prereq					Y
	2.2 Basic Landscape Design		<b>SS 2.5</b>	2	2	0			2
	2.3 Limit Conventional Turf		<b>SS 2.5</b>	3	3	0			0
	2.4 Drought Tolerant Plants		<b>SS 2.5</b>	2	2	0			0
	2.5 Reduce Overall Irrigation Demand by at Least 20%			6	0	0			0
<b>3. Local Heat Island Effects</b>	3 Reduce Local Heat Island Effects				1	0	1		1
<b>4. Surface Water Management</b>	4.1 Permeable Lot				4	4	0		4
	4.2 Permanent Erosion Controls				1	0	1		0
	4.3 Management of Run-off from Roof				2	0	0	N	0
<b>5. Nontoxic Pest Control</b>	5 Pest Control Alternatives				2	2	2		2
<b>6. Compact Development</b>	6.1 Moderate Density		<b>SS 6.2, 6.3</b>		2	0	0	N	0
	6.2 High Density		<b>SS 6.3</b>		3	0	0	N	0
	6.3 Very High Density				4	0	0	N	0
<i>Sub-Total for SS Category:</i>				<b>22</b>	<b>14</b>	<b>4</b>			<b>10</b>

## LEED for Homes Simplified Project Checklist (continued)

			Max Points		Project Points			
					Preliminary		Final	
					Y/Pts	Maybe	No	Y/Pts
<b>Water Efficiency (WE)</b> (Minimum of 3 WE Points Required) <span style="float: right;">OR</span>			Max					
<b>1. Water Reuse</b>	1.1	Rainwater Harvesting System	<b>WE 1.3</b>	4	0	0	N	0
	1.2	Graywater Reuse System	<b>WE 1.3</b>	1	0	0	N	0
	1.3	Use of Municipal Recycled Water System		3	0	0	N	0
<b>2. Irrigation System</b>	<input checked="" type="checkbox"/>	2.1 High Efficiency Irrigation System	<b>WE 2.3</b>	3	0	0	N	0
		2.2 Third Party Inspection	<b>WE 2.3</b>	1	0	0	N	0
	<input checked="" type="checkbox"/>	2.3 Reduce Overall Irrigation Demand by at Least 45%		4	0	0	N	0
<b>3. Indoor Water Use</b>	3.1	High-Efficiency Fixtures and Fittings		3	2	0		1
	3.2	Very High Efficiency Fixtures and Fittings		6	2	6		2
<i>Sub-Total for WE Category:</i>				<b>15</b>	<b>4</b>	<b>6</b>		<b>3</b>
<b>Energy and Atmosphere (EA)</b> (Minimum of 0 EA Points Required) <span style="float: right;">OR</span>			Max					
<b>1. Optimize Energy Performance</b>	1.1	Performance of ENERGY STAR for Homes		Prereq	Y			Y
	1.2	Exceptional Energy Performance		34	20	0		20
<b>7. Water Heating</b>	<input checked="" type="checkbox"/>	7.1 Efficient Hot Water Distribution		2	2	0		2
		7.2 Pipe Insulation		1	1	0		1
<b>11. Residential Refrigerant Management</b>	11.1	Refrigerant Charge Test		Prereq	Y			Y
	11.2	Appropriate HVAC Refrigerants		1	1	0		1
<i>Sub-Total for EA Category:</i>				<b>38</b>	<b>24</b>	<b>1</b>		<b>24</b>
<b>Materials and Resources (MR)</b> (Minimum of 2 MR Points Required) <span style="float: right;">OR</span>			Max					
<b>1. Material-Efficient Framing</b>	1.1	Framing Order Waste Factor Limit		Prereq	Y			Y
	1.2	Detailed Framing Documents	<b>MR 1.5</b>	1	0	1		0
	1.3	Detailed Cut List and Lumber Order	<b>MR 1.5</b>	1	0	0	N	0
	1.4	Framing Efficiencies	<b>MR 1.5</b>	3	3	0		3
	1.5	Off-site Fabrication		4	0	0	N	0
<b>2. Environmentally Preferable Products</b>	<input checked="" type="checkbox"/>	2.1 FSC Certified Tropical Wood		Prereq	Y			Y
	<input checked="" type="checkbox"/>	2.2 Environmentally Preferable Products		8	8	0		2.5
<b>3. Waste Management</b>	3.1	Construction Waste Management Planning		Prereq	Y			Y
	3.2	Construction Waste Reduction		3	0	3		3
<i>Sub-Total for MR Category:</i>				<b>16</b>	<b>11</b>	<b>4</b>		<b>8.5</b>
<b>Indoor Environmental Quality (EQ)</b> (Minimum of 6 EQ Points Required) <span style="float: right;">OR</span>			Max					
<b>1. ENERGY STAR with IAP</b>	1	ENERGY STAR with Indoor Air Package		13	0	0	N	0
<b>2. Combustion Venting</b>	2.1	Basic Combustion Venting Measures	<b>EQ 1</b>	Prereq	Y			Y
	2.2	Enhanced Combustion Venting Measures	<b>EQ 1</b>	2	0	2		2
<b>3. Moisture Control</b>	3	Moisture Load Control	<b>EQ 1</b>	1	0	1		0
<b>4. Outdoor Air Ventilation</b>	<input checked="" type="checkbox"/>	4.1 Basic Outdoor Air Ventilation	<b>EQ 1</b>	Prereq				Y
		4.2 Enhanced Outdoor Air Ventilation		2	0	2		2
		4.3 Third-Party Performance Testing	<b>EQ 1</b>	1	0	1		0
<b>5. Local Exhaust</b>	<input checked="" type="checkbox"/>	5.1 Basic Local Exhaust	<b>EQ 1</b>	Prereq	Y			Y
		5.2 Enhanced Local Exhaust		1	0	1		0
		5.3 Third-Party Performance Testing		1	1	0		0
<b>6. Distribution of Space Heating and Cooling</b>	<input checked="" type="checkbox"/>	6.1 Room-by-Room Load Calculations	<b>EQ 1</b>	Prereq	Y			Y
		6.2 Return Air Flow / Room by Room Controls	<b>EQ 1</b>	1	0	0	N	0
		6.3 Third-Party Performance Test / Multiple Zones	<b>EQ 1</b>	2	0	2		0
<b>7. Air Filtering</b>	7.1	Good Filters	<b>EQ 1</b>	Prereq	Y			Y
	7.2	Better Filters	<b>EQ 7.3</b>	1	0	0	N	0
	7.3	Best Filters		2	0	0	N	0
<b>8. Contaminant Control</b>	<input checked="" type="checkbox"/>	8.1 Indoor Contaminant Control during Construction	<b>EQ 1</b>	1	1	0		1
		8.2 Indoor Contaminant Control		2	0	2		1
	<input checked="" type="checkbox"/>	8.3 Preoccupancy Flush	<b>EQ 1</b>	1	1	0		1
<b>9. Radon Protection</b>	<input checked="" type="checkbox"/>	9.1 Radon-Resistant Construction in High-Risk Areas	<b>EQ 1</b>	Prereq	Y			Y
	<input checked="" type="checkbox"/>	9.2 Radon-Resistant Construction in Moderate-Risk Areas	<b>EQ 1</b>	1	0	0	N	0
<b>10. Garage Pollutant Protection</b>	10.1	No HVAC in Garage	<b>EQ 1</b>	Prereq	Y			Y
	10.2	Minimize Pollutants from Garage	<b>EQ 1, 10.4</b>	2	0	0	N	0
	10.3	Exhaust Fan in Garage	<b>EQ 1, 10.4</b>	1	0	0	N	0
	10.4	Detached Garage or No Garage	<b>EQ 1</b>	3	3	0		3
<i>Sub-Total for EQ Category:</i>				<b>21</b>	<b>6</b>	<b>11</b>		<b>10</b>
<b>Awareness and Education (AE)</b> (Minimum of 0 AE Points Required) <span style="float: right;">OR</span>			Max					
<b>1. Education of the Homeowner or Tenant</b>	<input checked="" type="checkbox"/>	1.1 Basic Operations Training		Prereq	Y			Y
	<input checked="" type="checkbox"/>	1.2 Enhanced Training		1	0	1		1
		1.3 Public Awareness		1	0	1		1
<b>2. Education of Building Manager</b>	<input checked="" type="checkbox"/>	2 Education of Building Manager		1	0	0	N	0
<i>Sub-Total for AE Category:</i>				<b>3</b>	<b>0</b>	<b>2</b>		<b>2</b>



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

Points cannot be earned in both the Prescriptive (below) and the Performance Approach (pg 2) of the EA section.

Energy and Atmosphere (EA)			OR	Max Points	Project Points			
					Y/Pts	Maybe	No	Y/Pts
<b>2. Insulation</b>				Prereq				
	2.1	Basic Insulation		2	0	0		2
	2.2	Enhanced Insulation						
<b>3. Air Infiltration</b>				Prereq				Y
	3.1	Reduced Envelope Leakage		2	0	0		0
	3.2	Greatly Reduced Envelope Leakage		3	0	0		3
	3.3	Minimal Envelope Leakage	<b>EA 3.2</b>					
<b>4. Windows</b>				Prereq				
	4.1	Good Windows		2	0	0		2
	4.2	Enhanced Windows		3	0	0		0
	4.3	Exceptional Windows	<b>EA 4.2</b>					
<b>5. Heating and Cooling Distribution System</b>				Prereq				
	5.1	Reduced Distribution Losses		2	0	0		0
	5.2	Greatly Reduced Distribution Losses		3	0	0		0
	5.3	Minimal Distribution Losses	<b>EA 5.2</b>					
<b>6. Space Heating and Cooling Equipment</b>				Prereq				Y
	6.1	Good HVAC Design and Installation		2	0	0		0
	6.2	High-Efficiency HVAC		4	0	0		0
	6.3	Very High Efficiency HVAC	<b>EA 6.2</b>					
<b>7. Water Heating</b>				2	0	0		2
	7.1	Efficient Hot Water Distribution		1	0	1		1
	7.2	Pipe Insulation		3	0	0		0
	7.3	Efficient Domestic Hot Water Equipment						
<b>8. Lighting</b>				Prereq				Y
	8.1	ENERGY STAR Lights		2	0	0		0
	8.2	Improved Lighting		3	0	0		3
	8.3	Advanced Lighting Package	<b>EA 8.2</b>					
<b>9. Appliances</b>				2	0	0		0
	9.1	High-Efficiency Appliances		1	0	0		0
	9.2	Water-Efficient Clothes Washer						
<b>10. Renewable Energy</b>				10	0	0		0
	10	Renewable Energy System						
<b>11. Residential Refrigerant Management</b>				Prereq				Y
	11.1	Refrigerant Charge Test		1	0	0		0
	11.2	Appropriate HVAC Refrigerants						
<i>Sub-Total for EA Category:</i>				<b>38</b>	<b>24</b>	<b>1</b>		<b>24</b>