

# **LEED for Homes Project Summary**

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

### E-mail certification package to: homescertification@usgbc.org

### **Certification Package**

- Project Summary page
- Signed LEED for Homes Checklist
- Signed Accountability Forms
- Signed Durability Inspection Checklist
- **Durability Evaluation Form** 
  - Multi-home or Multi-building page (if appl.)
  - Conflict of Interest Form (if appl.)

Project Informati	on	Project Team	Information
Registration #:	######## Reg Date: 7/6/15	Team Leader	Kim DeStigter
Project name	435 LaGrave	Company	DeStigter Architecture & Planning
Project address(es)	435 LaGrave Ave SE	Address	18 Goodrich SW Grand Rapids MI 49503
City	Grand Rapids	E-mail	KIM@DESTIGTERARCHITECTURE.COM
Metro. Area		Builder / Developer	Mike Mattice, Rockford Construction
State	Michigan	Other project	Paul Miyamoto - ICCF/Developer
Zip Code	49503	team members	Ryan Schmidt - ICCF/Developer
Subdivision / Dev.			
Verification Team	n Information		
Provider QAD	Jason LaFleur	QAD Company	GreenHome Institute
Green Rater	Mike Holcomb	Rater Company	Home Inspector General
Green Rater		Rater Company	
Energy Rater	Mike Holcomb	Rater Company	Home Inspector General
Project Informati	on		

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ET BUILDING		LEED	for H	lomes Proj	ject Ch	ecklist	
for Homes	Builder Name	:	Mike M	lattice, Rockford	Construct	ion	
	Project Team	Leader:	Kim De	Stigter, DeStigte	er Architec	ture & Planning	
	Home Addres	s (Street/City/State):	435 La	Grave Ave SE, G	rand Rapic	ls, Michigan	
Project Description				Adjusted Certif	ication Thr	resholds	
Building Type: <i>Multi-family</i>	Project type:	Multi-family Developer		Certified:	39.0	Gold:	69.0
# of Units: 24 Avg. Home S	Size Adjustment:	-6		Silver:	54.0	Platinum:	84.0
Project Point Total		Final Cr	edit Ca	tegory Point	Totals		
Prelim: 60.5 + 0 maybe pts Final: 72.5		ID	: 5	SS: 10	E	A: 18	EQ: 10
Certification Level		LL	: 10	WE: 8	N	IR: 9.5	AE: 2
Prelim: Silver Final: Gold							
Date Most Recently Updated: 2.2.17		Updated by: Paul Miya	amoto				
		Max Pts.	Preli	minary Rating			Project
s Indicates that an Accountability Form is required.		Available	Y/Pts	Maybe No			Points
Innovation & Design Process (ID) (Minimum 0 ID	Points Required)	Max: 11	Y:2	М:0		Notes	Final: 5
1. Integrated Project Planning		<b>9</b>					
1.1 Preliminary Rating	_	Prereq.	Y				Y
Target performance tier: Silver							
<b>1.2</b> Integrated Project Team (meet all of the following	•,	1	1	0			1
<ul> <li>a) Individuals or organizations with necessary capabilities</li> <li>b) All team members involved in various project phases</li> </ul>	5	🖾 c) Regular n	neetings nei	d with project team			
1.3 Professional Credentialed with Respect to LEEI	D for Homes	1	0	0			0
1.4 Design Charrette		1	1	0			1
<b>1.5</b> Building Orientation for Solar Design (meet all c	of the following)	1	0	0			0
$\square$ a) Glazing area on north/south walls 50% greater than of	•	-	-	south-facing roof are	a, oriented for	solar applications	
$\Box$ b) East-west axis is within 15 degrees of due east-west	,	-		glazing is shaded in s			
2. Quality Management for Durability							
2.1 Durability Planning (meet all of the following)		Prereq.					Ŷ

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- ☑ b) Strategies developed to address durability issues
- $\blacksquare$  c-i) Nonpaper-faced backer board in tub, shower, spa areas
- 🔄 c-ii) No carpet in kitchen, bathroom, laundry, and spa areas
- \_\_\_\_ c-iii) No carpet within 3 ft of each entryway
- -iv) Install drain and drain pans in tank water heaters in/over living spaces; OR
- \_\_\_\_\_ no tank water heaters in/over living spaces

- └ c-v) Install drain and drain pans for clothes washers in/over living spaces; OR
- no clothes washers in/over living spaces
- C-vi) Exhaust conventional clothes dryers directly to outdoors
- □ c-vii) Install drain and drain pan for condensing clothes dryers
- □ d) Durability strategies incorporated into project documentation
- 🔟 e) Durability measures listed in durability inspection checklist

2.2 D	urability Management (meet one of the following)	Prereq.	Y			Y
-	Builder has a quality management process in place	E Builder con	ducted inspe	ection using dural	bility inspection checklist	
2.3 Tł	hird-Party Durability Management Verification	3	0	0		3
3. Innovative or I	Regional Design					
<b>3.1</b> 🔊	Innovation 1 (ruling #):	1	0	0		0
3.2 🗷	Innovation 2 (ruling #):	1	0	0		0
<b>3.3</b> 🔊	Innovation 3 (ruling #):	1	0	0		0
<b>3.4</b> 🔊	Innovation 4 (ruling #):	1	0	0		0
Location & Li	nkages (LL) (Minimum 0 LL Points Required)	Max: 10	Y:9	M:0	Notes	Final: 10
1. LEED for Neig	Jhborhood Development					
1 LE	EED for Neighborhood Development	10	0	0		0
2. Site Selection						
2 🖉	Site Selection (meet all of the following)	2	2	0		2
	a) Built above 100-year floodplain defined by FEMA	,			kland prior to acquisition	
	<ul> <li>b) Not built on habitat for threatened or endangered species</li> <li>c) Not built within 100 ft of water, including wetlands</li> </ul>	🖾 e) Not built	on land wit	h prime soils, uni	ique soils, or soils of state significance	
	c) Not built within 100 it of water, including wedands					
3. Preferred Loca						
3.1 E	dge Development	1	0	0		0
OR 3.2 In	nfill	2	2	0		2
AND/OR 3.3 Pt	reviously Developed	1	1	0		1
4. Infrastructure						
4 Ex	xisting Infrastructure	1	0	0		1
5. Community Re	esources / Transit					
5.1 Ba	asic Community Resources / Transit (meet one of the following)	1	0	0		0
	a) Within 1/4 mile of 4 basic community resources	$\Box$ c) Within 1/	2 mile of tra	ansit services pro	viding 30 rides per weekday	
	b) Within 1/2 mile of 7 basic community resources					
OR 5.2 E	xtensive Community Resources / Transit (meet one of the following	g) <b>2</b>	0	0		0
	a) Within 1/4 mile of 7 basic community resources	□ c) Within 1	2 mile of tra	ansit services pro	viding 60 rides per weekday	
	b) Within 1/2 mile of 11 basic community resources					
OR 5.3 O	outstanding Community Resources / Transit (meet one of the follow	ving) 3	3	0		3
	a) Within 1/4 mile of 11 basic community resources	c) Within 1/	2 mile of tra	ansit services pro	viding 125 rides per weekday	
<u>_</u>	b) Within 1/2 mile of 14 basic community resources				·	
6. Access to Ope	en Space					
-	ccess to Open Space	1	1	0	Heatside park	1

Sustainable Sites (SS) (Minimum 5 SS Points Required)	Max: 22	Y:7	M:0	Notes	Final: 10
1. Site Stewardship					
1.1 Erosion Controls During Construction (meet all of the following)	Prereq.				Ŷ
a) Stockpile and protect disturbed topsoil from erosion.	🗹 d) Provide sw	ales to div	vert surface water from hills	sides	
b) Control the path and velocity of runoff with silt fencing or equivalent.	🔄 e) Use tiers, e	erosion bla	ankets, compost blankets, e	tc. on sloped areas.	
ightarrow c) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.					
1.2 Minimize Disturbed Area of Site (meet the appropriate requirements)	1	1	0		1
Where the site is not previously developed, meet all the following:					
igsqcup a) Develop tree / plant preservation plan with "no-disturbance" zones					
$\square$ b) Leave 40% of buildable lot area, not including area under roof, undisturbed					
<b>OR</b> Where the site is previously developed, meet all the following:					
igsquire c) Develop tree / plant preservation plan with "no-disturbance" zones AND					
Rehabilitate lot; undo soil compaction and remove invasive plants AND					
Meet the requirements of SS 2.2					
<b>OR</b> $\square$ d) Build on a lot of 1/7 acre or less, or 7 units per acre.					
2. Landscaping					
2.1  Ko Invasive Plants	Prereq.	Y			Y
2.2  Kasic Landscaping Design (meet all of the following)	2	2	0		2
🖂 a) Any turf must be drought-tolerant.	🖂 d) Add mulch	or soil an	nendments as appropriate.		
ightarrow b) Do not use turf in densely shaded areas.	🖃 e) All compac	ted soil m	ust be tilled to at least 6 ind	ches.	
c) Do not use turf in areas with slope of 25%					
AND/OR 2.3 Z Limit Conventional Turf	3	0	0		0
Percentage of designed landscape softscape area that is turf					
AND/OR 2.4 Z Drought-Tolerant Plants	2	2	0		2
<b>100%</b> Percentage of installed plants that are drought-tolerant					
OR 2.5	6	0	0		0
Percentage reduction in estimated irrigation water demand	(calculate)				
3. Reduce Local Heat Island Effects					
3 Z Reduce Local Heat Island Effects (meet one of the following)	1	1	0		0
$\_$ a) Locate trees / plantings to provide shade for 50% of hardscapes	$\Box$ b) Install light	t-colored,	high-albedo materials for 50	0% of sidewalks, patios, and driveways	

4       0       0         vegetative landscape	0 0 0 1
permeable paving impermeable surfaces directed to infiltration features other impermeable surfaces (areas not counted towards credit) 4.2 Permanent Erosion Controls (meet one of the following) 1 0 a) For portions of lot on steep slope, use terracing and retaining walls b) Plant trees, shrubs, or groundcover 4.3 Management of Runoff from Roof (meet any, see Rating System for pts) 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td></td>	
<ul> <li>impermeable surfaces directed to infiltration features</li> <li>other impermeable surfaces (areas not counted towards credit)</li> <li>4.2 Permanent Erosion Controls (meet one of the following)</li> <li>a) For portions of lot on steep slope, use terracing and retaining walls</li> <li>b) Plant trees, shrubs, or groundcover</li> <li>4.3          Management of Runoff from Roof (meet any, see Rating System for pts)</li> <li>a) Install permanent stormwater controls to manage runoff from the home</li> <li>b) Install vegetated roof to cover 50% of roof area</li> <li>d) Have lot designed by professional to manage runoff from home on-site</li> </ul>	
Image: Second secon	
4.2       Permanent Erosion Controls (meet one of the following)       1       0       0         □       a) For portions of lot on steep slope, use terracing and retaining walls       □       b) Plant trees, shrubs, or groundcover         4.3       ✓ Management of Runoff from Roof (meet any, see Rating System for pts)       2       0       0         □       a) Install permanent stormwater controls to manage runoff from the home       □       c) Install vegetated roof to cover 100% of roof area         □       b) Install vegetated roof to cover 50% of roof area       □       d) Have lot designed by professional to manage runoff from home on-site	
Image:	
<ul> <li>4.3          Management of Runoff from Roof (meet any, see Rating System for pts)         2         0         1 a) Install permanent stormwater controls to manage runoff from the home         1 b) Install vegetated roof to cover 50% of roof area         1 d) Have lot designed by professional to manage runoff from home on-site     </li> <li>5. Nontoxic Pest Control</li> </ul>	0
	0
b) Install vegetated roof to cover 50% of roof area          ↓ d) Have lot designed by professional to manage runoff from home on-site         5. Nontoxic Pest Control	1
5. Nontoxic Pest Control	1
	1
5 Pest Control Alternatives (meet any of the following, 1/2 pt each) 2 1 0	1
<ul> <li>⊥ a) Keep all exterior wood at least 12" above soil</li> <li>e) In 'moderate' to 'very heavy' termite risk areas:</li> <li>⊥ i) Treat all cellulosic material with borate product to 3' above foundation</li> </ul>	
$\perp$ b) Seal external cracks, joints, etc. with caulking and install pest-proof screens $\perp$ ii) Install sand or diatomaceous earth barrier	
$\square$ c) Include no wood-to-concrete connections, or separate connections with dividers $\square$ iii) Install steel mesh barrier termite control system	
☐ iv) Install non-toxic termite bait system	
<ul> <li>□ v) Use noncellulosic wall structure</li> <li>□ vi) Use solid concrete foundation walls or pest-proof masonry wall design</li> </ul>	
6. Compact Development	
6.1 Moderate Density 2 0 0	0
24   # of total units on the lot   0.4   lot size (acres)   56.6   density (units/acre)	
OR         6.2         High Density         3         0         0	0
OR6.3Very High Density400	4
Water Efficiency (WE)       (Minimum 3 WE Points Required)       Max: 15       Y:9       M:0       Notes       Fill	nal: 8
1. Water Reuse	
1.1Rainwater Harvesting System400	0
Percentage of roof area used for harvesting	
Application	
AND/OR 1.2 Graywater Reuse System 1 0 0	0
OR     1.3     Use of Municipal Recycled Water System     3     0     0	0

2. Irrigatio	n System				
:	2.1  see High-Efficiency Irrigation System (meet any of the following, 1 pt each)	3	3	0	3
	🔄 a) Irrigation system designed by EPA Water Sense certified professional	🔄 g) Install timer	or contro	ler for each watering zone	
	<ul> <li>b) Irrigation system with head-to-head coverage</li> </ul>	🗌 h) Install press	ure-regula	ting devices	
	$\perp$ c) Install central shut-off valve	🗌 i) High-efficien	cy nozzles	with distribution uniformity of at least 0.70.	
	$\perp$ d) Install submeter for the irrigation system	🗌 j) Install check	valves in	heads	
	$\square$ e) Use drip irrigation for 50% of planting beds	🗹 k) Install moist	ure senso	r or rain delay controller	
	$\perp$ f) Create separate zones for each type of bedding				
AND/OR	2.2 Third-party Inspection	1	0	0	0
OR :	2.3	4	0	0	0
	Percentage reduction in estimated irrigation water demand	<u>(calculate)</u>			
3. Indoor V	Vater Use				
;	3.1 High-Efficiency Fixtures and Fittings (meet any of the following, 1 pt each)	3	2	0	1
	$\square$ a) Average flow rate of lavatory faucets is $\leq$ 2.00 gpm	🔄 c) Average flow	v rate for a	all toilets is $\leq$ 1.30 gpf; OR	
	$\_$ b) Average flow rate for all showers is $\le 2.00$ gpm per stall	Toilets are	dual-flush	OR	
		☐ Toilets mee	t the EPA	Water Sense specification	
	3.2 Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each)	6	4	0	4
	$\_$ a) Average flow rate of lavatory faucets is ≤ 1.50 gpm; OR	b) Average flow	v rate for	all showers $\leq$ 1.75 gpm per stall	
	Lavatory faucets meet the EPA Water Sense specification				
			v rate for a	all tollets is $\leq 1.10$ ddf	
			v rate for a	all toilets is $\leq 1.10$ gpf	
Energy 8	Atmosphere (EA) (Minimum 0 EA Points Required)	Max: 38	Y:15	M:0 Notes	Final: 18
Energy 8	· ·	Max: 38	Y:15	M:0 Notes	
	Atmosphere (EA) (Minimum 0 EA Points Required)	Max: 38	Y:15	M:0 Notes	
1. Optimize	Atmosphere (EA) (Minimum 0 EA Points Required) Important note: projects registered after October 1st, 2014 that us	Max: 38	Y:15	M:0 Notes	
1. Optimize	Atmosphere (EA) (Minimum 0 EA Points Required) Important note: projects registered after October 1st, 2014 that us e Energy Performance	Max: 38	Y:15	M:0 Notes	r lower.
1. Optimize	Atmosphere (EA) (Minimum 0 EA Points Required) Important note: projects registered after October 1st, 2014 that us e Energy Performance 1.1 Performance of ENERGY STAR for Homes	Max: 38 the performa Prereq.	Y:15 ance pa	M:0 Notes Ath must achieve a HERS Index of 70 of	r lower. Y
1. Optimize	Atmosphere (EA) (Minimum 0 EA Points Required)         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         1.1 Performance of ENERGY STAR for Homes         1.2 Exceptional Energy Performance         IECC climate zone         HERS Index	Max: 38 the performa Prereq.	Y:15 ance pa	M:0 Notes Ath must achieve a HERS Index of 70 of	r lower. Y
1. Optimiz	Atmosphere (EA) (Minimum 0 EA Points Required)         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         1.1 Performance of ENERGY STAR for Homes         1.2 Exceptional Energy Performance         IECC climate zone         HERS Index	Max: 38 the performa Prereq.	Y:15 ance pa	M:0 Notes Ath must achieve a HERS Index of 70 of	r lower. Y
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1. Optimiz	Atmosphere (EA) (Minimum 0 EA Points Required)         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         1.1 Performance of ENERGY STAR for Homes         1.2 Exceptional Energy Performance         Important note: projects registered after October 1st, 2014 that us         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         Important Energy Performance <tr< td=""><td>Max: 38 se the performa Prereq. 34</td><td>Y:15 ance pa 0</td><td>M:0 Notes Ath must achieve a HERS Index of 70 or 0</td><td>r lower. Y 0</td></tr<>	Max: 38 se the performa Prereq. 34	Y:15 ance pa 0	M:0 Notes Ath must achieve a HERS Index of 70 or 0	r lower. Y 0
1. Optimize	& Atmosphere (EA) (Minimum 0 EA Points Required)         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         1.1 Performance of ENERGY STAR for Homes         1.2 Exceptional Energy Performance         Important Linergy Performance         Important Energy Performance	Max: 38 se the performa Prereq. 34 2	Y:15 ance pa 0	M:0 Notes Ath must achieve a HERS Index of 70 or 0	r lower. Y 0
1. Optimize	A Atmosphere (EA) (Minimum 0 EA Points Required)   Important note: projects registered after October 1st, 2014 that us   e Energy Performance   1.1 Performance of ENERGY STAR for Homes   1.2 Exceptional Energy Performance   IECC climate zone   HERS Index   eating 7.1	Max: 38 se the performa Prereq. 34 2 L c) Compact de	Y:15 ance pa 0 sign of co	M:0 Notes ath must achieve a HERS Index of 70 or 0 0 nventional system	r lower. Y O
1. Optimize 7. Water H 11. Reside	Atmosphere (EA) (Minimum 0 EA Points Required)         Important note: projects registered after October 1st, 2014 that us         e Energy Performance         1.1 Performance of ENERGY STAR for Homes         1.2 Exceptional Energy Performance         IECC climate zone         HERS Index         eating         7.1        Efficient Hot Water Distribution System (meet one of the following)         a) Structured plumbing system         b) Central manifold distribution system	Max: 38 se the performa Prereq. 34 2 L c) Compact de	Y:15 ance pa 0 sign of co	M:0 Notes ath must achieve a HERS Index of 70 or 0 0 nventional system	r lower. Y O
1. Optimize 7. Water H 11. Reside	A Atmosphere (EA) (Minimum 0 EA Points Required)   Important note: projects registered after October 1st, 2014 that us   e Energy Performance   1.1 Performance of ENERGY STAR for Homes   1.2 Exceptional Energy Performance   IECC climate zone   HERS Index   eating 7.1   Efficient Hot Water Distribution System (meet one of the following)	Max: 38 See the performe Prereq. 34 2 L c) Compact des 1	Y:15 ance pa 0 sign of co	M:0 Notes ath must achieve a HERS Index of 70 or 0 0 nventional system	r lower. Y O
1. Optimize 7. Water H 11. Reside	A Atmosphere (EA) (Minimum 0 EA Points Required)  Important note: projects registered after October 1st, 2014 that us the Energy Performance  1.1 Performance of ENERGY STAR for Homes  1.2 Exceptional Energy Performance  1.2 Exceptional Energy Performance  1.2 ECC climate zone  HERS Index  eating  7.1  Efficient Hot Water Distribution System (meet one of the following)  a) Structured plumbing system b) Central manifold distribution system  7.2 Pipe Insulation  finial Refrigerant Management  1.1 Refrigerant Charge Test  1.2 Appropriate HVAC Refrigerants (meet one of the following)	Max: 38 See the performation Prereq. 34 2 (	Y:15 ance pa 0 sign of cor 0 Y 0	M:0 Notes ath must achieve a HERS Index of 70 or 0 ventional system 0	r lower. Y O O
1. Optimize 7. Water H 11. Reside	A Atmosphere (EA) (Minimum 0 EA Points Required)   Important note: projects registered after October 1st, 2014 that us   e Energy Performance   1.1 Performance of ENERGY STAR for Homes   1.2 Exceptional Energy Performance   IECC climate zone   HERS Index   eating 7.1   Efficient Hot Water Distribution System (meet one of the following)	Max: 38 See the performation Prereq. 34 2 (	Y:15 ance pa 0 sign of cor 0 Y 0	M:0 Notes ath must achieve a HERS Index of 70 or 0 o nventional system 0	r lower. Y O O

Iaterials & Resources (MR)         (Minimum 2 M)	R Points Required)		Max: 16	Y:6.5	M:0	Note	es	Final: 9.
. Material-Efficient Framing								
1.1 Framing Order Waste Factor			Prereq.	Y				Y
1.2 Detailed Framing Documents			1	0	0			0
1.2 Detailed Framing Documents				0	0			0
ND/OR 1.3 Detailed Cut List and Lumber Order			1	0	0			0
Requirements of MR 1.2 have been met			Detailed cut I	ist and lumb	er order corres	ponding to framing plans or scop	es	
ND/OR 1.4 Framing Efficiencies (meet any of the	following see Ratin	a System for nts)	3	0	0			0
ND/OR 1.4 Framing Emolencies (meet any of the	onowing, see realing	g Gystelli for pisj	-	-	-			U
Precut framing packages			Stud spacing	greater thar	16" on center			
Open-web floor trusses			Ceiling joist s	pacing great	er than 16" on	center		
□ Structural insulated panel walls			📙 Floor joist spa	acing greate	r than 16" on c	enter		
Structural insulated panel roof			☐ Roof rafter sp	acing great	er than 16" on a	center		
☐ Structural insulated panel floors							a 2 stud somers	
	<i>"</i> · · · ·			-		ads; ladder blocking; drywall clip	s, 2-stud corners	
OR 1.5 Off-site Fabrication (meet one of the fo	bliowing)		4	4	0			4
a) Panelized construction			🔟 b) Modular, p	refabricated	construction			
. Environmentally Preferable Products								
2.1 SFSC Certified Tropical Wood (meet	all of the following)		Prereq.	Y				Y
a) Provide suppliers with a notice of preference	e for ESC products: AND		b) No tropica	wood insta	led (exceptions	s for FSC-certified or reclaimed w	(boor	
,				wood mota				
Boguest country of manufacture for each y								
Request country of manufacture for each v	•							
2.2 Sequest country of manufacture for each v	•	each)	8	2.5	0			3
· · · · ·	•	each)	8	-	0 Low emiss	sion (c) Loc	cal production	3
2.2 Z Environmentally Preferable Product Assembly : component	s (meet any, 1/2 pt	each)	8	-	-	sion (c) Loc	cal production	3
2.2 Z Environmentally Preferable Product Assembly : component Exterior wall: framing	s (meet any, 1/2 pt		8	-	-	sion (c) Loc	-	3
2.2 Z Environmentally Preferable Product Assembly : component	s (meet any, 1/2 pt <b>(a) EPP</b>	type:	8	-	Low emiss	sion (c) Loc		3
2.2 Z Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry	s (meet any, 1/2 pt (a) EPP □ □	type:	8	(b)	<b>Low emiss</b>			3
2.2 S Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry Floor: flooring	s (meet any, 1/2 pt (a) EPP   	type: type: type:	8	(b)	Low emiss	hard flooring	□ □ □ (45%)	3
2.2 S Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry Floor: flooring Floor: flooring Floor: flooring Floor: flooring	s (meet any, 1/2 pt (a) EPP   	type: type: type: type:	8	(b)	Low emiss	b hard flooring S FloorScore	□ □ □ (45%)	3
2.2	s (meet any, 1/2 pt (a) EPP       	type: type: type:	8	(b)	Low emiss	b hard flooring S FloorScore	□ □ □ (45%)	3
2.2 ≤ Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry Floor: flooring Floor: flooring Floor: flooring Floor: flooring Floor: framing	s (meet any, 1/2 pt (a) EPP       	type: type: type: type: type: type:	8	(b)	Low emiss	b hard flooring S FloorScore	□ □ □ (45%)	3
2.2 ≤ Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry Floor: flooring Floor: flooring Floor: flooring Floor: flooring Floor: framing Foundation: aggregate Foundation: cement	s (meet any, 1/2 pt (a) EPP       	type: type: type: type: type: type: type: type:	8	(b)	Low emiss	b hard flooring S FloorScore	□ □ □ (45%)	3
2.2 ≤ Environmentally Preferable Product Assembly : component Exterior wall: framing Exterior wall: siding or masonry Floor: flooring Floor: flooring Floor: flooring Floor: flooring Floor: framing Foundation: aggregate Foundation: cement Interior wall: framing	s (meet any, 1/2 pt (a) EPP       	type: type: type: type: type: type: type: type: type:	8	(b)	Low emiss	b hard flooring S FloorScore	□ □ □ (45%)	3
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3. Waste Management         3.1 Construction Waste Management Planning (meet both of the following)       Prereq.       Y         1 a) Investigate local options for waste diversion       b) Document diversion rate for construction waste         3.2 Construction Waste Reduction (use one of the following methods)       3       0       0         a) pounds waste / square foot	Υ 2.5 Final: 10
3.2       Construction Waste Reduction (use one of the following methods)       3       0       0         a) pounds waste / square foot	Final: 10
3.2       Construction Waste Reduction (use one of the following methods)       3       0       0         a) pounds waste / square foot       cubic yards waste / 1,000 square feet	Final: 10
a) pounds waste / square foot         cubic yards waste / 1,000 square feet         75%       b) percentage of waste diverted         Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)       Max: 21 Y:10 M:0       Notes         1. ENERGY STAR with Indoor Air Package       13 0 0       0         2. Combustion Venting       Venting       Venting	Final: 10
cubic yards waste / 1,000 square feet         75%       b) percentage of waste diverted         Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)       Max: 21 Y:10 M:0       Notes         1. ENERGY STAR with Indoor Air Package       13 0 0       0         2. Combustion Venting       Venting       Venting	
75%       b) percentage of waste diverted         Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)       Max: 21       Y:10       M:0       Notes         1. ENERGY STAR with Indoor Air Package       1       ENERGY STAR with Indoor Air Package       13       0       0         2. Combustion Venting       Venting       Venting       Venting       Venting       Venting	
Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)       Max: 21       Y:10       M:0       Notes         1. ENERGY STAR with Indoor Air Package       1       ENERGY STAR with Indoor Air Package       13       0       0         2. Combustion Venting       2       Combustion Venting       13       0       0	
1. ENERGY STAR with Indoor Air Package       1     ENERGY STAR with Indoor Air Package       12. Combustion Venting	
1       ENERGY STAR with Indoor Air Package       13       0       0         2. Combustion Venting       13       0       0	0
1       ENERGY STAR with Indoor Air Package       13       0       0         2. Combustion Venting       13       0       0	0
24 Basic Combustion Venting Measures (meet all of the following) Prevent V	
2.1 Basic Combustion Venting Measures (meet an of the following)	Y
a) no unvented combustion appliances	
b) carbon monoxide monitors on each floor (of each unit, if applicable) b) space and water heating equipment has power-vented exhaust; OR	
🖾 c) no fireplace installed, OR	
□ all fireplaces and woodstoves have doors □ no space- or water-heating equipment with combustion	
2.2Enhanced Combustion Venting Measures (meet one of the following)220	2
Type of Fireplace or stoveBetter practice (1 pt)Best practice (2 pts)(must also meet Better Practice)	
None granted automatically	
Masonry wood-burning fireplace 🗆 masonry heater	
Factory-built wood-burning fireplace 📃 listed by testing lab and meets EPA standards 📃 back-draft potential test	
Woodstove and fireplace insert 🔲 listed by testing lab and meets EPA standards 🔤 back-draft potential test	_
Natural gas, propane, or alcohol stove       Isted, power- or direct-vented, fixed doors       electronic pilot         Pellet stove       EPA certified or meets safety requirements       power- or direct-venting	
3 Moisture Load Control (meet one of the following)       1       0       0	0
<ul> <li>a) Additional dehumidification system</li> <li>b) Central HVAC system equipped with additional dehumidification mode</li> </ul>	U
4. Outdoor Air Ventilation	
4.1  Basic Outdoor Air Ventilation (meet one of the following) Prereq. Y	Y
$\square$ a) Qualifies under ASHRAE Std. 62.2-2007 climate exemption.	
<ul> <li>b) Continuous ventilation</li> <li>d) Passive ventilation</li> </ul>	
4.2        Enhanced Outdoor Air Ventilation (meet one of the following)       2       0       0	2
□ a) Meets EQ 4.1 part (a), active ventilation system installed □ b) Install heat recovery system	
4.3 Third-Party Performance Testing100	0

5. Local E	Exhaust					
	5.1    Basic Local Exhaust (meet all of the following)	Prereq.	Y			Y
	🖃 a) Bathroom and kitchen exhaust meets ASHRAE Std. 62.2 air flow requirement	🖂 c) Air exhauste	d to outdo	oors		
	b) Fans and ducts designed and installed to ASHRAE Std. 62.2	🗹 d) ENERGY ST	AR labeled	bathroom exha	ust fans	
	5.2 Enhanced Local Exhaust (meet one of the following)	1	0	0		0
	☐ a) Occupancy sensor	🗌 c) Automatic ti	mer tied to	o switch to oper	ate fan for 20+ minutes post-occupancy	
	b) Automatic humidistat controller	🗌 d) Continuousl	y operating	g exhaust fan		
	5.3 Third-Party Performance Testing	1	0	0		0
6. Distrib	bution of Space Heating and Cooling					
	6.1 🗷 Room-by-Room Load Calculations	Prereq.	Y			Y
	6.2 Return Air Flow / Room-by-Room Controls (meet one of the following)	1	0	0		0
	A. Forced-Air Systems	B. Nonducted				
	$\square$ a) Return air opening of 1 sq. inch per cfm of supply	☐ Flow control va	alves on ev	very radiator; OF	2	
	igsquirin b) Limited pressure differential between closed room and adjacent spaces	Radiant floor s	ystem with	n thermostatic co	ontrols in every room	
	6.3 Third-Party Performance Test / Multiple Zones (meet one of the following)	2	2	0		0
	A. Forced-Air Systems	B. Nonducted		•		
	$\square$ Have supply air flow rates in each room tested and confirmed	Install at least	two distine	ct zones with inc	dependent thermostat control	
7. Air Filt	Itering					
	7.1 Good Filters	Prereq.				Ŷ
	7.2 Better Filters	1	1	0	MERV 10	1
OR	7.3 Best Filters	2	0	0		0
8. Contan	aminant Control					
	8.1 Z Indoor Contaminant Control during Construction	1	1	0		1
	8.2 Indoor Contaminant Control (meet any of the following, 1 pt each)	2	1	0		1
	a) Design and install permanent walk-off mats at each entry	🔟 c) Install centr	al vacuum	system with exl	haust to outdoors	
	$\square$ b) Design shoe removal and storage space near primary entryway	_ /				
	8.3 🗷 Preoccupancy Flush	1	0	0		0
9. Radon	n Protection					
	9.1 Z Radon-Resistant Construction in High-Risk Areas	Prereq.				Y
	9.2 Z Radon-Resistant Construction in Moderate-Risk Areas	1	0	0		0
		I	0	0		0

10. Garage Pollutant Protection		
10.1 No HVAC in Garage	Prereq.	Y
<b>10.2</b> Minimize Pollutants from Garage (meet all of the following)	2 0 0	0
a) In conditioned spaces above garage:	b) In conditioned spaces next to garage	0
✓ Seal all penetrations and connecting floor and ceiling joist bays	↓ Weather-strip all doors	
	$\Box$ Carbon monoxide detectors in rooms that share a door with garage	
	Seal all penetrations and cracks at the base of walls	
AND/OR 10.3 Exhaust Fan in Garage (meet one of the following)	1 0 0	0
a) Fan runs continuously	$\Box$ b) Fan designed with automatic timer control	
OR 10.4 Detached Garage or No Garage	3 3 0	3
Awareness & Education (AE) (Minimum 0 AE Points Required)	Max: 3 Y:2 M:0 Notes	Final: 2
1. Education of the Homeowner or Tenant	Prorog V	Y
1.1 Z Basic Operations Training (meet both of the following)	Prereq. Y	Ŷ
1.1       ∠ Basic Operations Training (meet both of the following)         ∠       a) Operations and training manual	Prereq. Y	Ŷ
1.1 Z Basic Operations Training (meet both of the following)		У 0
1.1       ∠ Basic Operations Training (meet both of the following)         ∠       a) Operations and training manual	b) One-hour walkthrough with occupant(s)	
<ul> <li>1.1</li></ul>	b) One-hour walkthrough with occupant(s)     1   0	
<ul> <li>1.1 Z Basic Operations Training (meet both of the following)</li> <li>a) Operations and training manual</li> <li>1.2 Z Enhanced Training</li> <li>1.3 Public Awareness (meet three of the following)</li> </ul>	Image: state of the state	
<ul> <li>1.1 Z Basic Operations Training (meet both of the following)</li> <li>a) Operations and training manual</li> <li>1.2 Z Enhanced Training</li> <li>1.3 Public Awareness (meet three of the following)</li> <li>a) Open house on at least four weekends</li> </ul>	Image: b) One-hour walkthrough with occupant(s)         1       0         1       1         0       0         1       1         0       0         1       1         0       0         1       0         1       0         Image: block of the project	
<ul> <li>1.1 ≤ Basic Operations Training (meet both of the following)</li> <li>a) Operations and training manual</li> <li>1.2 ≤ Enhanced Training</li> <li>1.3 Public Awareness (meet three of the following)</li> <li>a) Open house on at least four weekends</li> <li>b) Website about features and benefits of LEED homes</li> </ul>	Image: b) One-hour walkthrough with occupant(s)         1       0         1       1         0       0         1       1         0       0         1       1         0       0         1       0         1       0         Image: block of the project	

#### 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 allegens, or free of soil gases including radon.

#### SIGNATURES BY RESPONSIBLE PARTIES

By affixing my signature below, the undersigned does have been met for the indicated credits and will, if audi	,	for Homes require	ements, as specified in the LEED for Homes Rating System,
Project Team Leader	Kim DeStigter	Company	DeStigter Architecture & Planning
Signature		Date	
as specified in the LEED for Homes Rating System, ha		umentation packag	d performance testing for the LEED for Homes requirements, ge and conducted the necessary QA/QC procedures with the omes certification, as per the attached checklist.
Provider QAD	Jason LaFleur	Company	GreenHome Institute
		Date	
Signature			
By affixing my signature below, the undersigned does as specified in the LEED for Homes Rating System, ha			a performance testing for the LEED for Homes requirements, tal Guidelines and Addendum.
By affixing my signature below, the undersigned does as specified in the LEED for Homes Rating System, ha	ave been completed.		
By affixing my signature below, the undersigned does as specified in the LEED for Homes Rating System, ha I also hereby confirm that all verification services were	ave been completed. performed in accordance with the LEED for Homes <u>Ver</u>	rification & Submitt	tal Guidelines and Addendum.

### 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	Prelin Y / Pts	ninary Ra <sub>Maybe</sub>	ting No	Notes	Project Points		
Energy & Atmosphere (EA) (Must earn points equal to HERS 70)	Max: 38	Y:15	M:0		Notes	Final: 18		
Important note: projects registered after October 1st, 2014 th					st the following:			
13 points (projects in climate zone 1-5), 2. Insulation	or 9.5 points (	project	s in clima	ate zone 6-8)				
2.1 Basic Insulation (meet both of the following)	Prereq.	Y				Y		
니 a) Insulation meets R-value requirements of IECC	b) Insulation r	meets HER	5 Grade II sp	ecifications for installation				
2.2 Enhanced Insulation (meet both of the following)	2	0	0			0		
$\square$ a) Insulation exceeds R-value requirements of IECC by 5%	b) Insulation r	meets HER	5 Grade I spe	ecifications for installation				
3. Air Infiltration								
3.1 Reduced Envelope Leakage	Prereq.	Y				Y		
1.7 Air leakage rate in ACH50								
3.2 Greatly Reduced Envelope Leakage	2	0	0			0		
OR 3.3 Minimal Envelope Leakage	3	0	0			3		
4. Windows								
4.1 Good Windows (meet all of the following)	Prereq.	Y				Y		
☐ a) Windows and glass doors meet ENERGY STAR BOP window specifications	🔄 b) Skylight gla	$□$ b) Skylight glazing area is $\le$ 3% of floor area AND						
	Skylights meet ENERGY STAR requirements for skylights							
4.2 Enhanced Windows	2	2	0			2		
OR 4.3 Exceptional Windows	3	0	0			0		
5. Heating and Cooling Distribution System								
5.1 Reduced Distribution Losses (meet all of the following, as appropriate)	Prereq.	Y				Y		
A. Forced-Air Systems	B. Nonducted	d HVAC	Systems					
□ a) Duct leakage of ≤ 4.0 CFM at 25 Pascals per 100 sq.ft.	At least R-3 in	sulation ar	ound pipes ir	n unconditioned spaces				
b) No ducts in exterior walls unless extra insulation is added								
c) At least R-6 insulation around ducts in unconditioned spaces								
5.2 Greatly Reduced Distribution Losses (meet the following, as appropriate)	2	2	0			0		
A. Forced-Air Systems	B. Nonducted	d HVAC	Systems					
$\square$ Duct leakage of $\leq$ 3.0 CFM at 25 Pascals per 100 sq.ft.	Keep the boile	er and pipe	s entirely wit	hin conditioned envelope				
<b>OR</b> 5.3 Minimal Distribution Losses (meet one of the following, as appropriate)	3	0	0			3		

A. Forced-Air Systems

 $\square$  a) Duct leakage of  $\le$  1.0 CFM at 25 Pascals per 100 sq.ft.

 ${\scriptstyle \sqsubseteq}$  b) Air-handler and all ductwork is within conditioned envelope and EA 3.3 is met

 $\square$  c) Air-handler and all ductwork visibly within conditioned spaces (not in walls, etc.)

B. Nonducted HVAC Systems

 $\square$  Outdoor reset control to set distribution temp. based on outdoor temp.

-	ating and Cooling Equipment								
6.1	✓ Good HVAC Design and Installation (meet all of the following)	Prereq.	Y			Y			
	a) Design and size HVAC equipment using ACCA Manual J or equivalent	$\square$ c) Install ENERGY STAR programmable thermostat OR							
	☑ b) Install efficient heating AND cooling equipment (see Table)	Heat pump or hydronic installed and exempted from part (c)							
	Central Type of cooling system	Forced air furnace Type of hea			Type of heating system				
	14.5 Cooling efficiency (SEER / EER)	95.0 Heati		)	Heating Efficiency (AFUE / HSPF / COP)				
6.2	P High-Efficiency HVAC	2	2	0		2			
OR 6.3	Very High Efficiency HVAC	4	0	0		0			
7. Water Hea	iting								
7.1		2	0	0		0			
	ot a) Structured plumbing system	ot c) Compact design of conventional system							
_	b) Central manifold distribution system								
7.2	Pipe Insulation	1	1	0		0			
7.3	B Efficient Domestic Hot Water Equipment	3	1	0	2 - 100 gallon tanks	1			
	Gas, storage, 80 gal. Type of DHW system								
	Efficiency Solar: Percentage of annual DHW loa	d							
8. Lighting									
8.4	ENERGY STAR Lights	Prereq.	Y			Y			
8.2	Improved Lighting (meet one of the following, see Rating System for pts)	1.5	0	0		0			
	$\square$ a) Indoor lighting - 3 additional ENERGY STAR lights in high-use rooms	$\Box$ b) Exterior lighting - motion sensor controls or integrated PV							
OR 8.3	Advanced Lighting Package (meet one of the following)	3	3	0	LEDS mostly	3			
	☐ a) 60% of fixtures are ENERGY STAR fixtures	□ b) 80% of lamps are ENERGY STAR CFLs							
9. Appliance	2								
9.1 9.1		2	2	0		2			
	☐ a) ENERGY STAR labeled refrigerator	└ c) ENERGY STAR labeled dishwasher using 6.0 gallons per cycle or less							
	$\square$ b) ENERGY STAR labeled ceiling fans in living/family room and all bedrooms	☐ d) ENERGY STAR clothes washer							
9.2	Water-Efficiency Clothes Washer	1	1	0		1			
10. Renewal	ble Energy								
10		10	0	0		0.0			
	Reference electric load, kWh/yr (based on HERS	model)		El	ectricity supplied by renewable system, kWh/yr				
	0.0% Percentage of annual reference electric load met by renewable syste	em							
11. Resident	ial Refrigerant Management								
	1 Refrigerant Charge Test	Prereq.	Y			Y			
	2 Appropriate HVAC Refrigerants (meet one of the following)	1	1	0		1			
	□ a) Use no refrigerants	$\Box$ c) Use refrigerants that complies with global warming potential equation							
	b) Use non-HCFC refrigerants								