

for Homes

2.3 Third-Party Durability Management Verification

3. Innovative or Regional Design

Final: 47

LEED for Homes Project Checklist for California

Builder Name:	Tresor Construction
Project Team Leader:	Chris Meddock, HORSTarchitects
Home Address (Street/City/State):	1105 Canyon View Drive, Laguna Beach, Ca

Final Credit Category Point Totals

SS: 5

ID: 4

Project Description

Project Point Total

Prelim: 96 + 8 maybe pts

Adjusted Certification Thresholds

EA: 28

EQ: 0

Building Type: Single detached Project type: Custom Certified: 47.5 Gold: 77.5
of Bedrooms: 5 Floor Area: 3,167 Silver: 62.5 Platinum: 92.5

Certification Level LL: 10 WF O MR: 0 AE: 0 Prelim: Platinum Final: Not Certified Minimum Point Thresholds Not Met for Final Rating Date Most Recently Updated: Updated by: Max Pts. Preliminary Rating Project Available **Points** Y / Pts Maybe **Notes** Final: 4 Y:8 M:0 Innovation & Design Process (ID) (Minimum 0 ID Points Required) Max: 11 1. Integrated Project Planning 1.1 Preliminary Rating Prereg. **Platinum** Target performance tier: 1.2 Integrated Project Team (meet all of the following) ☑ a) Individuals or organizations with necessary capabilities c) Regular meetings held with project team ✓ b) All team members involved in various project phases 1.3 Professional Credentialed with Respect to LEED for Homes please see ID 01-06 for details 1.4 Design Charrette 1.5 Building Orientation for Solar Design (meet all of the following) 0 a) Glazing area on north/south walls 50% greater than on east/west walls c) At least 450 sq. ft. of south-facing roof area, oriented for solar applications b) East-west axis is within 15 degrees of due east-west d) 90% of south-facing glazing is shaded in summer, unshaded in winter 2. Quality Management for Durability 2.1 Durability Planning (meet all of the following) Prereq. ✓ a) Durability evaluation completed d) Durability strategies incorporated into project documentation e) Durability measures listed in durability inspection checklist c) Moisture control measures from Table 1 incorporated 2.2 Durability Management (meet one of the following) Builder has a quality management process in place ☑ Builder conducted inspection using durability inspection checklist

	3.1 Innovation 1 (ruling #): WE 2.1	1	2	0		2
	3.2 Innovation 2 (ruling #): EA 10	1	1	0		0
	3.3 Innovation 3 (ruling #): SS 5	1	1	0		1
	3.4 Innovation 4 (ruling #):	1	0	0		0
Locatio	on & Linkages (LL) (Minimum 0 LL Points Required)	Max: 10	Y:10	M:0	Notes	Final: 10
1. LEED 1	for Neighborhood Development					
	LEED for Neighborhood Development	10	0	0 N		0
2. Site Se						
	2	2	2	0		2
	☑ a) Built above 100-year floodplain defined by FEMA			t was public parkland	•	
	✓ b) Not built on habitat for threatened or endangered species✓ c) Not built within 100 ft of water, including wetlands	∠ e) Not built	on land with	h prime soils, unique s	oils, or soils of state significance	
	(v) Not built within 100 it of water, including wedands					
3. Preferi	rred Locations					
	3.1 Edge Development	1	0	0		0
OR	3.2 Infill	2	2	0		2
AND/OR	3.3 Previously Developed	1	1	0		1
4. Infrast	structure					
	4 Existing Infrastructure	1	1	0		1
5. Comm	nunity Resources / Transit					
	5.1 Basic Community Resources / Transit (meet one of the following)	1	0	0		0
	a) Within 1/4 mile of 4 basic community resources	c) Within 1/2	mile of tra	ansit services providing	30 rides per weekday	
	b) Within 1/2 mile of 7 basic community resources					
OR	5.2 Extensive Community Resources / Transit (meet one of the following)	2	0	0		0
	a) Within 1/4 mile of 7 basic community resources	c) Within 1/2	mile of tra	ansit services providing	g 60 rides per weekday	
	b) Within 1/2 mile of 11 basic community resources					
OR	5.3 Outstanding Community Resources / Transit (meet one of the following)	3	3	0		3
	a) Within 1/4 mile of 11 basic community resources	c) Within 1/2	2 mile of tra	ansit services providing	125 rides per weekday	
	b) Within 1/2 mile of 14 basic community resources					
6. Acces	ss to Open Space					
	6 Access to Open Space	1	1	0		1

Sustainable Sites (SS) (Minimum 5 SS Points Required)	Max: 22 Y:17 M:0 Notes Fin	al: 5
1. Site Stewardship		
1.1 Erosion Controls During Construction (meet all of the following)	y) Prereq. Y	
$\ensuremath{\checkmark}$ a) Stockpile and protect disturbed topsoil from erosion.	d) Provide swales to divert surface water from hillsides	
✓ b) Control the path and velocity of runoff with silt fencing or equivalent.	$\ensuremath{\checkmark}$ e) Use tiers, erosion blankets, compost blankets, etc. on sloped areas.	
$\ensuremath{\checkmark}$ c) Protect sewer inlets, streams, and lakes with straw bales, silt fencing, etc.		
1.2 Minimize Disturbed Area of Site (meet the appropriate requiren Where the site is not previously developed, meet all the following		1
\square a) Develop tree / plant preservation plan with "no-disturbance" zones		
\square b) Leave 40% of buildable lot area, not including area under roof, undisturbed	ped	
OR Where the site is previously developed, meet all the following:		
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		
$\textit{OR} \hspace{.1in} \checkmark \hspace{.1in} d$) Build on a lot of 1/7 acre or less, or 7 units per acre.		
2. Landscaping		
2.1 No Invasive Plants	Prereq. Y	Y
2.2 ∠ Basic Landscaping Design (meet all of the following)	2 2 0	0
a) Any turf must be drought-tolerant.	d) Add mulch or soil amendments as appropriate.	
☑ b) Do not use turf in densely shaded areas.	e) All compacted soil must be tilled to at least 6 inches.	
c) Do not use turf in areas with slope of 25%		
AND/OR 2.3 ∠ Limit Conventional Turf	3 3 0	0
0% Percentage of designed landscape softscape area that	at is turf	
AND/OR 2.4 Z Drought-Tolerant Plants	2 2 0	0
92% Percentage of installed plants that are drought-tolerar	nt	
OR 2.5 Reduce Overall Irrigation Demand by at Least 20%	6 0 0	0
Percentage reduction in estimated irrigation water dem	mand <u>(calculate)</u>	
3. Reduce Local Heat Island Effects		
3 Reduce Local Heat Island Effects (meet one of the following)	g) 1 1 0	0
$\hfill\Box$ a) Locate trees / plantings to provide shade for 50% of hardscapes	☑ b) Install light-colored, high-albedo materials for 50% of hardscapes	

4. Surface Water Management					
4.1 ✓ Permeable Lot	4	2	0		2
62% vegetative landscape					
0% permeable paving					
25% 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	1	0		0
$\ensuremath{\checkmark}$ a) For portions of lot on steep slope, use terracing and retaining walls	b) Plant trees	, shrubs, o	r groundcover		
4.3 Management of Runoff from Roof (meet any, see Rating System for pts)	2	1	0		0
ightharpoons a) Install permanent stormwater controls to manage runoff from the home	c) Install vege	etated roof	to cover 100% of ro	oof area	
b) Install vegetated roof to cover 50% of roof area	d) Have lot de	esigned by	professional to mana	age runoff from home on-site	
5. Nontoxic Pest Control					
5 Pest Control Alternatives (meet any of the following, 1/2 pt each)	2	2	0		0
✓ a) Keep all exterior wood at least 12" above soil	•		ry heavy' termite		
✓ b) Seal external cracks, joints, etc. with caulking and install pest-proof screens				duct to 3' above foundation	
c) Include no wood-to-concrete connections, or separate connections with dividers	= ′		naceous earth barrier		
d) Install landscaping so mature plants are 24" from home	✓ iv) Install non		rrier termite control s	system	
	v) Use noncel				
				st-proof masonry wall design	
6. Compact Development					
6.1 Moderate Density	2	2	0		2
# of total units on the lot 0.1 lot size (acres)	8.3	density (units/acre)		
OR 6.2 High Density	3	0	0 N		0
OR 6.3 Very High Density	4	0	0 N		0
Water Efficiency (WE) (Minimum 3 WE Points Required)	Max: 15	Y:4	M:0	Notes	Final: 0
1. Water Reuse					
1.1 Rainwater Harvesting System	4	0	0 N		0
Percentage of roof area used for harvesting					
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

2.1 A High-Efficiency Irrigation System (meet any of the following, 1 pt each) 3 3 0 0 0 0 0 0 0 0	2. Irrigation System					
	2.1	3	3	0		0
O Install entirel shur-off view O O O O O O O O O	a) Irrigation system designed by EPA Water Sense certified professional	✓ g) Install tim	ner or contro	oller for each watering zone		
d) Install submeter for the irrigation system g) Install check valves in heads g) Install moisture sensor or rain delay controller g) of the deprint production of 1	✓ b) Irrigation system with head-to-head coverage	✓ h) Install pre	essure-regul	ating devices		
Policy of planting bods Process esperate zones for each type of bedding Process	c) Install central shut-off valve	i) High-effici	ency nozzle	s with distribution uniformity of at least 0	.70.	
	d) Install submeter for the irrigation system	j) Install che	ck valves in	heads		
AMD/OR 2.2 Third-party Inspection 1 1 0 0 0		✓ k) Install mo	isture senso	or or rain delay controller		
Reduce Overall Irrigation Demand by at Least 45%						
Percentage roduction in estimated irrigation water demand Calculate	AND/OR 2.2 Third-party Inspection	1	1	0		0
3. Indoor Water User 3. Indight Efficiency Fixtures and Fittings (meet any of the following, 1 pt each) 3. Indight Efficiency Fixtures and Fittings (meet any of the following, 1 pt each) 4. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 5. Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each) 5. Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 6. Indight Efficiency Fixtures and Fittings (meet any, 2 pts each) 7. Water Heatter Fixtures and Fittings (meet any, 2 pts each) 8. Lighting 8. It file-24 Lighting 8. Title-24 Lighting	OR 2.3	4	0	0		0
3.1 High-Efficiency Fixtures and Fittings (meet any of the following, 1 pt each) a Average flow rate of lavatory faucets is \$ 2.00 gpm c Average flow rate for all toilets is \$ 1.30 gpf; OR b Average flow rate for all showers is \$ 2.00 gpm per stall c Toilets are dual-flush; OR c	Percentage reduction in estimated irrigation water demand	(calculate)				
a Average flow rate of lavatory faucets is \$ 2.00 gpm c Average flow rate for all toilets is \$ 1.30 gpf; OR b Average flow rate for all showers is \$ 2.00 gpm per stall Toilets are dual-flush; OR Toilets meet the EPA Water Sense specification Toilets is \$1.10 gpf Toilets meet the EPA Water Sense specification	3. Indoor Water Use					
Divides are dual-flush; OR Toilets meet the EPA Water Sense specification	3.1 High-Efficiency Fixtures and Fittings (meet any of the following, 1 pt each)	3	0	0		0
Tollets meet the EPA Water Sense specification 3.2 Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each) 6 0 0	a) Average flow rate of lavatory faucets is ≤ 2.00 gpm	C) Average f	low rate for	all toilets is ≤ 1.30 gpf; OR		
3.2 Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each) a Average flow rate of lavatory faucets is \$ 1.50 gpm; OR b Average flow rate for all showers \$ 1.75 gpm per stall Lavatory faucets meet the EPA Water Sense specification c Average flow rate for all toilets is \$ 1.10 gpf Energy & Atmosphere (EA) (Minimum 0 EA Points Required) Max: 38 Y:34 M:2 Notes Final: 28 1. Optimize Energy Performance in California 1.1 Performance of ENERGY STAR for Homes Prereq. Y 1.2 Exceptional Energy Performance 19 17.0 0 17.0 6 IECC climate zone 50.9 Percent above Title-24 Modeling performed by current CEA or CEPE 7. Water Heating in California 7 Z Efficient Hot Water Distribution System (meet one of the following) 2 0 2 0 a Structured plumbing system C C C C C C C C C b C C C C C C C C C	b) Average flow rate for all showers is ≤ 2.00 gpm per stall	☐ Toilets ar	re dual-flush	n; OR		
a) Average flow rate of lavatory faucets is ≤ 1.50 gpm; OR b) Average flow rate for all showers ≤ 1.75 gpm per stall c) Average flow rate for all toilets is ≤ 1.10 gpf Energy & Atmosphere (EA) (Minimum 0 EA Points Required) Max: 38 Y:34 M:2 Notes Final: 28		Toilets m	eet the EPA	Water Sense specification		
Lavatory faucets meet the EPA Water Sense specification	3.2 Very High-Efficiency Fixtures and Fittings (meet any, 2 pts each)	6	0	0		0
Lavatory faucets meet the EPA Water Sense specification	a) Average flow rate of lavatory faucets is ≤ 1.50 gpm; OR	b) Average flow rate for all showers ≤ 1.75 gpm per stall				
Energy & Atmosphere (EA) (Minimum 0 EA Points Required) Max: 38 Y:34 M:2 Notes Final: 28 1. Optimize Energy Performance in California 1.1 Performance of ENERGY STAR for Homes Prereq. Y 1.2 Exceptional Energy Performance 6 IECC climate zone 50.9 Percent above Title-24 Modeling performed by current CEA or CEPE 7. Water Heating in California 7 Efficient Hot Water Distribution System (meet one of the following) a) Structured plumbing system b) Central manifold distribution system 8.1 Title-24 Lighting Prereq.		C) Average flow rate for all toilets is < 1.10 opf				
1. Optimize Energy Performance in California 1.1 Performance of ENERGY STAR for Homes 1.2 Exceptional Energy Performance 6 IECC climate zone 50.9 Percent above Title-24	•					
1.1 Performance of ENERGY STAR for Homes		Max: 38	Y:34	M:2	Notes	Final: 28
1.2 Exceptional Energy Performance 6 IECC climate zone 50.9 Percent above Title-24		_				
7. Water Heating in California 7. Water Heating in California 1. Water Heating in California 2. 0. 2. 0 □ a) Structured plumbing system □ b) Central manifold distribution system 8. Lighting 8.1 Title-24 Lighting Prereq. Modeling performed by current CEA or CEPE Modeling performed by current CEA or CEPE Modeling performed by current CEA or CEPE Compact design of conventional system	1.1 Performance of ENERGY STAR for Homes	Prereq.	Υ			
7. Water Heating in California 7	1.2 Exceptional Energy Performance	19	17.0	0		17.0
7 Efficient Hot Water Distribution System (meet one of the following) 2 0 2 0 2 0 0 2 0 0 2 0 0 2 0 0 0 0 0	6 IECC climate zone 50.9 Percent above Title-24	Modeling pe	erformed by	current CEA or CEPE		
□ a) Structured plumbing system □ b) Central manifold distribution system 8. Lighting 8.1 Title-24 Lighting Prereq.	7. Water Heating in California					
B. Lighting 8. Lighting 8.1 Title-24 Lighting Prereq.	7 Efficient Hot Water Distribution System (meet one of the following)	2	0	2		0
8. Lighting 8.1 Title-24 Lighting Prereq.	a) Structured plumbing system	c) Compact	design of co	onventional system		
8.1 Title-24 Lighting Prereq.	b) Central manifold distribution system					
8.1 Title-24 Lighting Prereq.	8. Lighting					
8.2 Improved Lighting (meet one of the following, see Rating System for pts) 1 0 0	8.2 Improved Lighting (meet one of the following, see Rating System for pts)	Prereq.				
a) Indoor lighting - three ENERGY STAR lights b) Exterior lighting - four PV-integrated lights		Prereq.	0	0		0
OR 8.3 Advanced Lighting Package (meet one of the following) 3 3 0	a) Indoor lighting - three ENERGY STAR lights	1	•	•		0
		1 □ b) Exterior li	ghting - fou	r PV-integrated lights		0
a) all lighting is high-efficacy	OR 8.3 Advanced Lighting Package (meet one of the following)	1 b) Exterior lig	ghting - fou	r PV-integrated lights		0
a) all lighting is high-efficacy	OR 8.3 Advanced Lighting Package (meet one of the following)	1 b) Exterior lig	ghting - fou	r PV-integrated lights		0

9. Appliances	
9.1 High-Efficiency Appliances (meet any, see Rating System for pt	ts) 2 2 0 0
☑ a) ENERGY STAR labeled refrigerator	c) ENERGY STAR labeled dishwasher using 6.0 gallons per cycle or less
$\hfill\Box$ 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 0
10. Renewable Energy in California	
10	10 10 0 10.0
25,160 Annual reference electric load, kWh	yyr 9,238 Electricity supplied by renewable system, kWh/yr
36.7% Percentage of annual reference electric load supplied by	by renewable system
11. Residential Refrigerant Management	
11.1 Refrigerant Charge Test	Prereq.
11.2 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	
Materials & Resources (MR) (Minimum 2 MR Points Required)	Max: 16 Y:9 M:2 Notes Final:
Materials & Resources (MR) (Minimum 2 MR Points Required) 1. Material-Efficient Framing	Max: 16 Y:9 M:2 Notes Final:
	Max: 16 Y:9 M:2 Notes Final: Prereq. Y
1. Material-Efficient Framing	, max 10 110 1112
Material-Efficient Framing	Prereq. Y
Material-Efficient Framing	Prereq. Y 1 1 0 0
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order ☑ Requirements of MR 1.2 have been met	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes stem for pts) 3 1.5 0 0
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order ☑ Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys ☑ Precut framing packages	Prereq. Y 1 1 0 0 1 1 0 0 ✓ Detailed cut list and lumber order corresponding to framing plans or scopes stem for pts) 3 1.5 0 0 ☐ Stud spacing greater than 16" on center
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order ☑ Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys ☑ Precut framing packages ☐ Open-web floor trusses	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes Stem for pts) 3 1.5 0 0 Stud spacing greater than 16" on center Ceiling joist spacing greater than 16" on center
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order ☑ Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys ☑ Precut framing packages ☐ Open-web floor trusses ☐ Structural insulated panel walls	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes stem for pts) 3 1.5 0 0 Stud spacing greater than 16" on center Ceiling joist spacing greater than 16" on center Floor joist spacing greater than 16" on center
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys Precut framing packages Open-web floor trusses Structural insulated panel walls Structural insulated panel roof	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes Stem for pts) 3 1.5 0 0 Stud spacing greater than 16" on center Ceiling joist spacing greater than 16" on center Roof rafter spacing greater than 16" on center
1. Material-Efficient Framing 1.1 Framing Order Waste Factor 1.2 Detailed Framing Documents AND/OR 1.3 Detailed Cut List and Lumber Order Requirements of MR 1.2 have been met AND/OR 1.4 Framing Efficiencies (meet any of the following, see Rating Sys Precut framing packages Open-web floor trusses Structural insulated panel walls Structural insulated panel roof Structural insulated panel floors	Prereq. Y 1 1 0 0 1 1 0 0 Detailed cut list and lumber order corresponding to framing plans or scopes Stem for pts) 3 1.5 0 0 Stud spacing greater than 16" on center Ceiling joist spacing greater than 16" on center Floor joist spacing greater than 16" on center Roof rafter spacing greater than 16" on center Two of the following: Size headers for loads; ladder blocking; drywall clips; 2-stud corners

2. Environmer	ntally Preferable Products								
2.1		of the followin	g)	P	Prereq.	Υ			
	a) Provide suppliers with a notice of preference f	or FSC products; A	ND	✓ b)) No tropical w	ood installed (e	exceptions for FSC-certified or re	eclaimed wood)	
	Request country of manufacture for each work	nd product		_ ,		,	·	ŕ	
		<u> </u>	ot ooob)		8	5.5 0			0
2.2		meet any, 1/2	ol each)		0	5.5 0			U
	Assembly : component	(a) EPP				(b) Lou	v emission	(c) Local production	
	Exterior wall: framing		type:						
	Exterior wall: siding or masonry		type:						
	Floor: flooring	✓ (45%	b) type: F	SC wood/ travertine		✓	90% hard flooring	(45%)	
	Floor: flooring	(90°	(a) type:				SCS FloorScore	(90%)	
	Floor: flooring						Green Label Plus		
	Floor: framing		type:						
	Foundation: aggregate		type:					✓	
	Foundation: cement		type:					✓	
	Interior wall: framing		type:						
	Interior wall, ceiling: gypsum board		type: F	Pabco				✓	
	Interior wall, ceiling, millwork: paint		type:			✓	type: DE Spartawall/	Valspar Zenith	
	Landscape: decking and patio		type:						
	Other: cabinet		type:						
	Other: counter		type:						
	Other: door		type:						
	Other : interior trim		type:						
	Other: adhesive, sealant					\checkmark	type:	_	
	Other: window frame		type:						
	Roof: framing		type:						
	Roof: roofing	V	type:						
	Roof, floor, wall: cavity insulation	✓	type: E	coTouch, EcoBatt		\checkmark	type: EcoTouch. Eco	oBatt	
	Roof, floor, wall (2 of 3): sheathing	✓	type: F	SC plywood					
	Other: water supply piping		type:						
	Other: driveway		type:						
3. Waste Mana	agement								
	Construction Waste Management Planni	na (meet both	of the follow	vina) F	Prereq.				
	_	.g (moot sour			•				
	a) Investigate local options for waste diversion			☑ b)) Document div	ersion rate for	construction waste		
3.2	Construction Waste Reduction (use one	of the following	methods)		3	0 2			0
	a) pounds waste / square foot								
	cubic yards waste / 1,000 sq	uare feet							
	b) percentage of waste diverted	l							

Indoor Environmental Quality (EQ) (Minimum 6 EQ Points Required)	Max: 21	Y:12	M:4	Notes	Final: 0
1. ENERGY STAR with Indoor Air Package					
ENERGY STAR with Indoor Air Package	13	0	0 N		0
2. Combustion Venting					
2.1 Basic Combustion Venting Measures (meet all of the following)	Prereq.	Υ			
a) no unvented combustion appliances	☑ d) space, wa	ter heating	equipment designed with clo	sed combustion; OR	
✓ b) carbon monoxide monitors on each floor	space and	d water hea	ating equipment has power-ve	ented exhaust; OR	
\square c) no fireplace installed, OR	space and	d water hea	ating equipment located in de	tached or open-air facility; OR	
all fireplaces and woodstoves have doors	no space	or water-h	heating equipment with comb	ustion	
2.2 Enhanced Combustion Venting Measures (meet one of the following)	2	2	0		0
Type of Fireplace or stove Better practice (1 pt)			Best practice (2 pts (must also meet Bette	,	
None			granted automa	atically	
Masonry wood-burning fireplace			☐ back-draft pote		
Factory-built wood-burning fireplace			back-draft pote		
Woodstove and fireplace insert ☐ listed by testing lab and m Natural gas, propane, or alcohol stove ☐ listed, power- or direct-ver			back-draft pote	ntial test	
Natural gas, propane, or alcohol stove			electronic pilot power- or direc	t-venting	
	oty roquironionio				
3. Moisture Control		•	0		
3 Moisture Load Control (meet one of the following)	1	0	0		U
a) Additional dehumidification system	∐ b) Central H\	/AC system	n equipped with additional def	numidification mode	
4. Outdoor Air Ventilation					
4.1 Basic Outdoor Air Ventilation (meet one of the following)	Prereq.				
✓ a) Qualifies under ASHRAE Std. 62.2-2007 climate exemption.	c) Intermitte	nt ventilatio	on		
b) Continuous ventilation	d) Passive ve	entilation			
4.2 Enhanced Outdoor Air Ventilation (meet one of the following)	2	0	2		0
ightharpoons a) Meets EQ 4.1 part (a), active ventilation system installed	b) Install hea	at recovery	system		
4.3 Third-Party Performance Testing	1	0	1		0
5. Local Exhaust					
5.1 ∠ Basic Local Exhaust (meet all of the following)	Prereq.	Υ			
✓ a) Bathroom and kitchen exhaust meets ASHRAE Std. 62.2 air flow requirement	✓ c) Air exhaus	sted to outd	toors		
b) Fans and ducts designed and installed to ASHRAE Std. 62.2			ed bathroom exhaust fans		
5.2 Enhanced Local Exhaust (meet one of the following)	1	1	0		0
a) Occupancy sensor	c) Automatic	timer tied t	to switch to operate fan for 2	0+ minutes post-occupancy	
b) Automatic humidistat controller	d) Continuou			· · · · · · · · · · · · · · · · · · ·	
5.3 Third-Party Performance Testing	a) continuo	1	0		0
5.5 Tillia Faity Follomiance Testing					U

6. Distribution of Space Heating and Cooling					
6.1 Room-by-Room Load Calculations	Prereq.	Y			Υ
6.2 Return Air Flow / Room-by-Room Controls (meet one of the following) A. Forced-Air Systems ☐ a) Return air opening of 1 sq. inch per cfm of supply	1 B. Nonducte ✓ Flow control		-		0
\square b) Limited pressure differential between closed room and adjacent spaces	✓ Radiant floo	r system wi	th thermost	ratic controls in every room	
6.3 Third-Party Performance Test / Multiple Zones (meet one of the following) A. Forced-Air Systems ☐ Have supply air flow rates in each room tested and confirmed	2 B. Nonducte ✓ Install at lea		-	ith independent thermostat control	0
7. Air Filtering					
7.1 Good Filters	Prereq.				
7.2 Better Filters	1	0	0	N	0
OR 7.3 Best Filters	2	0	0	N	0
8. Contaminant Control					
8.1 Indoor Contaminant Control during Construction	1	1	0		0
8.2 Indoor Contaminant Control (meet any of the following, 1 pt each)	2	1	0		0
a) Design and install permanent walk-off mats at each entry	c) Install cer	ntral vacuu	n system wi	ith exhaust to ourdoors	
☑ b) Design shoe removal and storage space near primary entryway					
8.3 Preoccupancy Flush	1	1	0		0
9. Radon Protection					
9.1 Radon-Resistant Construction in High-Risk Areas	Prereq.	N/A			
9.2 Radon-Resistant Construction in Moderate-Risk Areas	1	0	0	N	0
10. Garage Pollutant Protection					
10.1 No HVAC in Garage	Prereq.	Υ			
10.2 Minimize Pollutants from Garage (meet all of the following)	2	2	0		0
a) In conditioned spaces above garage:	b) In condition			to garage	
Seal all penetrations and connecting floor and ceiling joist bays	✓ Weather-stri	•		ns that share a door with garage	
				the base of walls	
AND/OR 10.3 Exhaust Fan in Garage (meet one of the following)	1	0	1		0
a) Fan runs continuously	✓ b) Fan desig	ned with a	utomatic tim	ner control	
OR 10.4 Detached Garage or No Garage	3	0	0	N	0

Awareness	& Education (AE) (Minimum 0 AE Points Required)	<i>Max:</i> 3	Y:2	M:O	Notes	Final: 0
1. Education	of the Homeowner or Tenant					
1.1	∠ Basic Operations Training (meet both of the following)	Prereq.	Y			
	☑ a) Operations and training manual	✓ b) One-hour	walkthroug	gh with occupant(s)		
1.2		1	1	0		0
1.3	Public Awareness (meet three of the following)	1	1	0		0
	\square a) Open house on at least four weekends	c) Newspape	r article on	the project		
	☑ b) Website about features and benefits of LEED homes	☑ d) Display LE	ED signage	e on the exterior of the home		
2. Education	of the Building Manager					
2		1	0	0 N		0
	a) Operations and training manual	b) One-hour	walkthroug	gh 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 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 requi	rements, as specified in the LEED for Homes Rating System,				
Project Team Leader	Chris Meddock	Company	HORSTarchitects				
Signature		Date					
	hereby declare and affirm to the USGBC that the requiring System, have been completed, and will provide the						
Provider QAD	R. Zimmerman	Company	Sonoran				
Signature		Date					
	hereby declare and affirm to the USGBC that the requiring System, have been completed, and will provide the						
Green Rater	R. Zimmerman	Company	Sonoran				
Signature		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, and will provide the project documentation file, if requested.							
Green Rater		Company					
Signature		Date					