

RESIDENTIAL CHECKLIST

IECC 2018 with State Amendments



This checklist covers requirements of the 2018 IECC with State-adopted amendments, approved in December 2020. Check with individual Counties for County - adopted versions of the code.

- State 2018 IECC amendments: <https://energy.hawaii.gov/hawaii-building-energy-code/>
- View the 2018 IECC here: <https://codes.iccsafe.org/content/iecc2018>

SCOPE

Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) as well as Group R-2, R-3 and R-4 buildings three stories or less in height above grade plane. The code applies to new construction, additions and alterations. See a separate Commercial Checklist for high-rise residential and commercial buildings.

RESIDENTIAL COMPLIANCE OPTIONS

Tropical Zone	Prescriptive	Simulated Performance Alternative	Energy Rating Index Compliance Alternative
Allowed when: 1. ≤50% air conditioned, 2. not heated, and 3. elevation < 2,400 feet.	Includes three options for walls and roof compliance: 1. Prescriptive 2. Total UA (typically with ResCheck software) 3. Points option (added by Hawaii amendment)	Simulated energy performance analysis for heating, cooling and water heating. Proposed design must have annual energy cost less than or equal to energy cost of reference design.	Third-party Home Energy Rating System (HERS) calculation. Allows the designer to pick and choose from many efficiency options. Scores range from 100 to 0. The 100 score indicates compliance with the 2006 IECC. Each efficiency measure beyond 2006 lowers the score. A passing score for Climate Zone 1 is 57.
See Tropical Zone Checklist below	See Prescriptive Checklist below. See Points Option tables below.	See code Section R405	See code Section R406

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TROPICAL ZONE REQUIREMENTS CHECKLIST

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Tropical zone qualification	<ul style="list-style-type: none"> ▪ ≤ 50% of the dwelling unit has AC ▪ No heating installed ▪ Elevation < 2,400 ft 	R401.2.1*	Dwellings that do not meet all these criteria must use another compliance option.	<input type="checkbox"/> AC space clearly indicated (if applicable)
Water heating - solar	Solar, wind or other renewable source supplies ≥ 90% of energy for water heating	R401.2.1*	Waiver for instant-on water heater permitted. See also: https://energy.hawaii.gov/resources/solar-water-heater-variance and https://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0006_0005.htm	<input type="checkbox"/> Water heating system specs on plans
Windows – solar heat gain coefficient (SHGC)	≤ 0.25 if projection factor < 0.30 ≤ 0.40 if projection factor 0.30-0.50 N/A: projection factor ≥ 0.5. N/A: north windows if PF > 0.20 Jalousie windows exempt.	R401.2.1*	SHGC = solar heat gain factor. Low SHGC typically requires dual-pane glazing with a low-emittance coating that is designed to reduce solar heat gain. Projection factor = horizontal projection of overhang ÷ vertical distance from overhang to bottom of window. Overhang must extend at least 2 ft on each side of the window or to the nearest wall, whichever is less.	<input type="checkbox"/> SHGC indicated on plans <input type="checkbox"/> Overhang dimensions on plans, if applicable
Skylights – U-factor	≤ 0.75	R401.2.1*	Skylights must have dual-pane glazing.	<input type="checkbox"/> Skylight U-factor on plans
Lighting	≥ 90% of lamps or fixtures are high efficacy	R404.1	High efficacy lamps are defined as: <ul style="list-style-type: none"> ▪ T-8 or smaller diameter fluorescent ▪ Compact fluorescent ▪ 60 lumens/watt if >40W ▪ 50 lumens/watt if >15W and ≤40W ▪ 40 lumens/watt if ≤15W Most, but not all, LED lamps will qualify. Applies to permanently-installed fixtures. Low-voltage lighting is exempt.	<input type="checkbox"/> Lighting fixture locations on plans <input type="checkbox"/> Lighting fixture schedule includes input power and lumen output

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Roof – insulation and membrane	<input type="checkbox"/> R-13 + cool roof, <input type="checkbox"/> R-19 , or <input type="checkbox"/> <i>Points option (section R407)</i>	R401.2.1*	<p>Qualifying cool roof membranes must meet one of the following (per Table C402.3):</p> <ol style="list-style-type: none"> 1. Aged reflectance ≥ 0.55 & aged thermal emittance ≥ 0.75 2. Aged solar reflectance index (SRI) ≥ 0.64 <p>Qualifying cool roofs will typically be white in color. Typical options include white painted metal, white tile, white liquid applied coating, and white single-ply membranes.</p> <p>If present, attics above insulation must be vented and attics below insulation must be unvented.</p>	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans <input type="checkbox"/> Membrane specs on plans (if applicable)
Roof – slope	$\geq \frac{1}{4}$ in. per foot	R401.2.1*	No water accumulation areas allowed.	<input type="checkbox"/> Roof slope indicated on plans
Walls and floor	No requirement			
Natural ventilation	<ul style="list-style-type: none"> ▪ Opening area $\geq 14\%$ of floor area in each room (or provide a ventilation fan) ▪ Bedrooms with exterior walls facing two different directions have operable fenestration facing two directions ▪ Interior doors to bedrooms capable of being secured open 	R401.2.1*	<p>Operable windows and/or skylights are required for natural ventilation.</p> <p>Ventilation fans can be provided as an alternative.</p>	<input type="checkbox"/> Operable openings on plans <input type="checkbox"/> Ventilation fans on plans (if applicable)
Ceiling fans	Ceiling fans or rough-ins required for: <ul style="list-style-type: none"> ▪ Each bedroom ▪ Largest space not used as a bedroom 	R401.2.1*	A “rough-in” is an electrical junction box mounted in the ceiling that is rated for ceiling fan installation.	<input type="checkbox"/> Ceiling fan locations on plans
Air leakage	Walls, floor and ceilings that separate AC spaces and non-AC spaces use air-tight construction	R401.2.1*	For air conditioned spaces, see section R402.4: <ul style="list-style-type: none"> ▪ Continuous air barrier ▪ Breaks or joints are sealed ▪ Recessed lighting ▪ Fenestration air leakage 	<input type="checkbox"/> Plan notes indicate installation requirements

* Code section added or modified by State amendment

END OF TROPICAL ZONE CHECKLIST

PRESCRIPTIVE REQUIREMENTS CHECKLIST

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Roof – wood frame	<input type="checkbox"/> R-30 , <input type="checkbox"/> U-0.035 , <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option	R402.1, R402.1.5, R407*	Some R-30 options: <ul style="list-style-type: none"> • 10 in. batt insulation • 5 to 8 in. spray foam 	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Roof – metal truss	<input type="checkbox"/> R-38 , <input type="checkbox"/> U-0.035 , <input type="checkbox"/> R-30 + R-3 , <input type="checkbox"/> R-26 + R-5 , <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option	R402.1, R402.2, R402.1.5, R407*	Metal frame creates a thermal bridge, and more insulation is required. “R-3” and R-5” refer to continuous insulation, typically foam board.	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Roof – metal joist	<input type="checkbox"/> R-38 in 2x4, 2x6 or 2x8 framing, <input type="checkbox"/> R-49 in any framing <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option	R402.1, R402.2, R402.1.5, R407*		<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Wall – wood frame	<input type="checkbox"/> R-13 , <input type="checkbox"/> U-0.084 , <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option	R402.1, R402.1.5, R407*	Some R-13 options: <ul style="list-style-type: none"> • 3.5 in. batt insulation • 2 to 3.5 in. spray foam 	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Wall – metal frame	Framing 16 in. on center: <input type="checkbox"/> R-13 + R-4.2 <input type="checkbox"/> R-21 + R-2.8 Framing 24 in. on center: <input type="checkbox"/> R-13 + R-3.0 <input type="checkbox"/> R-15 + R-2.4 <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option	R402.1, R402.2, R402.1.5, R407*	Requires insulation in framing cavity plus a layer of continuous insulation (typically foam board).	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Wall – mass (CMU or concrete)	<input type="checkbox"/> R-3 exterior, <input type="checkbox"/> R-4 interior, <input type="checkbox"/> U-0.197 , <input type="checkbox"/> Exterior reflectance ≥ 0.64 ,* <input type="checkbox"/> Overhang projection factor ≥ 0.3 ,* <input type="checkbox"/> Mass wall thickness ≥ 6 inches,* <input type="checkbox"/> Total UA alternative, or <input type="checkbox"/> Points option*	R402.1*	Requires either exterior or interior insulation, typically foam board. CMU integral insulation does not comply. Hawaii amendments add several alternatives .	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Raised floor – wood or concrete	<input type="checkbox"/> R-13 , <input type="checkbox"/> U-0.064 , or <input type="checkbox"/> <i>Total UA alternative</i>	R402.1	(Note: counties may adopt an amendment to remove the floor insulation requirement)	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Raised floor – metal frame	<input type="checkbox"/> R-19 in 2x6 framing <input type="checkbox"/> R-19 + R-6 in 2x8 or 2x10 framing, or <input type="checkbox"/> <i>Total UA alternative</i>	R402.1	(Note: counties are considering an amendment to remove the floor insulation requirement)	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Slab-on-grade floor	No requirement			
Windows & skylights	SHGC ≤ 0.25 <ul style="list-style-type: none"> Area-weighted average permitted, but maximum SHGC is 0.50 Up to 15 ft² exempt Jalousie windows are exempt* 	R402.3* R402.5	SHGC is solar heat gain coefficient. Typically requires dual-pane glazing with a low-emittance coating that is designed to reduce solar heat gain. The 15 ft ² exemption allows a small amount of clear or unrated glazing.	<input type="checkbox"/> SHGC indicated on plans
Air leakage – installation	<ul style="list-style-type: none"> Continuous air barrier Breaks or joints are sealed Recessed lighting sealed Fenestration air leakage 	R402.4	<ul style="list-style-type: none"> Applies to air-conditioned space. Code includes a list of installation requirements. Recessed lighting is IC rated and sealed. 	<input type="checkbox"/> Plan notes indicate installation requirements
Air leakage - testing	Leakage ≤ 5 air changes per hour tested at pressure of 0.2 in. w.g. (50 Pascals)	R402.4.1.2 R401.3.1*	<ul style="list-style-type: none"> Written report required. Test is typically performed using a blower door. Sampling of dwellings allowed per State Amendment section R401.3.1, following Chapter 6 of RESNET Home Energy Rating System standards. 	<input type="checkbox"/> Plan notes indicate testing requirements
AC controls	Programmable thermostat	R403.1.1		<input type="checkbox"/> Thermostat included on plans
Duct insulation	In unconditioned attic: R-8 for ducts ≥ 3 in. diameter R-6 for ducts < 3 in. diameter Buried within ceiling insulation: R-8 duct insulation Vapor retarder \geq R-13 ceiling insulation above duct Other locations: R-6 for ducts ≥ 3 in. diameter R-4.2 for ducts < 3 in. diameter Within building thermal envelope: No requirements	R403.3.1 R403.3.6	Applies to both supply and return ducts. Typical insulation thickness: R-8: 3.0 in. duct wrap/flex. R-6: 2.2 in. duct wrap/flex. R-4.2: 1.5 in. duct wrap/flex.	<input type="checkbox"/> Insulation R-value on plans

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Duct testing	Rough-in before air handler installed: ≤ 3 cfm/100 ft² at 0.1 in. w.g. (25 Pa) Rough-in after air handler installed: ≤ 4cfm/100 ft² at 0.1 in. w.g. (25 Pa) Postconstruction: ≤ 4cfm/100 ft² at 0.1 in. w.g. (25 Pa) (No testing required if ducts are located completely within the thermal envelope.)	R403.3.3, R403.3.4	Written test report to be delivered to the code official. Test typically performed with a “duct blaster”. Sampling of dwellings allowed per State Amendment section R401.3.1, following Chapter 6 of RESNET Home Energy Rating System standards.	<input type="checkbox"/> Plan notes indicate testing requirements
Water heating – circulation systems	Pump required (no thermosyphon). Automatic controls required.	R403.5.1.1	Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.	<input type="checkbox"/> Controls indicated on plans
Water heating – heat trace systems	Automatic controls required	R403.5.1.2		<input type="checkbox"/> Controls indicated on plans
Water heating – demand recirculation systems	Control requirements	R403.5.2	This system type starts a pump when receiving a signal from the user or based on flow from a fixture and may recirculate water back through the cold water supply pipe. The controls must stop the pump so that the temperature of the water entering the cold water piping is not greater than 104°F	<input type="checkbox"/> Controls indicated on plans
Water heating – pipe insulation	R-3 insulation for all the following hot water pipe conditions: 1. diameter ≥ ¾ in. diameter 2. serves more than one dwelling 3. outside conditioned space 4. from water heater to manifold 5. under floor slab 6. buried 7. recirculation systems	R403.5.3	R-3 pipe insulation is typically ½ in. thick.	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Water heating – solar systems	Required for new single-family	R403.5.5*	Hawaii amendment to 2018 IECC. Solar water heating required on new single-family homes per existing state law. HRS 196-6.5: https://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0006_0005.htm HSEO guidance: https://energy.hawaii.gov/resources/solar-water-heater-variance .	<input type="checkbox"/> Solar water heating system shown on plans.
Mechanical ventilation	<ul style="list-style-type: none"> Provide ventilation that complies with the International Residential Code or the International Mechanical Code or other approved means Automatic or gravity dampers on outdoor air intakes and exhausts 	R403.6		
Pools and permanent spas	<ul style="list-style-type: none"> Heaters. Electric power switch required. No gas pilot. Automatic time switches on heater and pumps. Covers required for heated pools (except with heat pump or solar). Comply with APSP-15 standard. 	R403.10 R403.12	APSP-15 is a standard for energy efficiency for residential inground swimming pools, and spas.	<input type="checkbox"/> Controls on plans <input type="checkbox"/> Cover on plans
Lighting	≥ 90% of lamps or fixtures are high efficacy	R404.1	High efficacy lamps are defined as: <ul style="list-style-type: none"> T-8 or smaller diameter fluorescent Compact fluorescent 60 lumens/watt if >40W 50 lumens/watt if >15W and ≤40W 40 lumens/watt if ≤15W Most LED lamps will qualify. Applies to permanently-installed fixtures. Low-voltage lighting is exempt.	<input type="checkbox"/> Lighting fixture locations on plans <input type="checkbox"/> Lighting fixture schedule includes input power and lumen output
Ceiling fans	A ceiling fan, ceiling fan rough-in or whole house fan is provided for bedrooms and the largest space that is not used as bedroom.	R403.6.2*	Added by Hawai'i amendment.	<input type="checkbox"/> Ceiling fan or locations or whole house fan on plans

* Code section added or modified by State amendment

END OF PRESCRIPTIVE CHECKLIST

RESIDENTIAL ADDITIONS AND ALTERATIONS CHECKLIST

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Additions	<p>Requirements for new construction apply to additions.</p> <p>Unaltered portions of the existing building are not required to comply.</p>	R502	<p>New construction requirements apply to all these elements if they are part of an addition:</p> <ul style="list-style-type: none"> ▪ Building envelope assemblies ▪ New HVAC systems and components ▪ New water heating systems ▪ New lighting systems <p>As an alternative, the Simulated Performance Alternative can be used for the combination of the existing building and addition.</p>	See requirements for new construction
Alterations – walls	<p>Meet requirements for new construction (see separate checklist), with the following exceptions:</p> <ol style="list-style-type: none"> 1. Wall cavity is not exposed 2. Wall cavity is filled with insulation 	R503.1.1		
Alterations – windows and skylights	<p>No requirements for glazing-only repairs of existing windows and skylights</p> <p>New construction requirements for solar heat gain coefficient (SHGC) apply for replacements that include sash and glazing. Area-weighted average may be used to comply when more than one window is replaced.</p>	R503.1.1 R504		
Alteration – roof repair	No requirements	R504.2	“Roof repair” is reconstruction or renewal of any part of an existing roof for the purpose of its maintenance.	
Alterations – roof recover	No requirements	R503.1.1	“Roof recover” is the process of installing an additional roof covering over an existing roof covering without removing the existing roof covering.	

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
Alterations – roof replacement	<p>Roofs without insulation in the cavity and where the sheathing or insulation is exposed during a roof replacement shall meet one of the following:</p> <ol style="list-style-type: none"> 1. R-30 insulation or cool roof 2. R-19 or cool roof for buildings eligible for Tropical Zone compliance 3. At least one of the following <ol style="list-style-type: none"> a. EnergyStar roof covering b. Radiant barrier c. Attic ventilation via solar fan(s) or ridge vents or gable vents d. One or more exceptions in Section C402.3 <p>Footnote to exception: Shake roofs on battens must be replaced with materials that result in equal or improved energy efficiency</p>	R503.1.1*	<p>“Roof replacement” is the process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering.</p> <p>Cool roof definition is provided in section C402.3:</p> <ul style="list-style-type: none"> ▪ Aged reflectance ≥ 0.55 + aged emittance ≥ 0.75, or ▪ aged solar reflectance index (SRI) ≥ 0.64 <p>Exceptions listed in section C402.3 include:</p> <ol style="list-style-type: none"> 1. Portions covered by the following: <ul style="list-style-type: none"> ▪ Photovoltaic systems or components. ▪ Solar air or water-heating systems or components. ▪ Roof gardens or landscaped roofs. ▪ Above-roof decks or walkways. ▪ Skylights. ▪ HVAC systems and components, and other opaque objects mounted above the roof. 2. Portions shaded during summer solstice 3. Portions ballasted with stone 17 lb/sf 	
Alterations – air conditioning	New systems and components meet new construction requirements, except for duct extensions of less than 40 ft in unconditioned space	R503.1.2		
Alterations - lighting	New lighting systems meet new construction requirement (high efficacy) unless fewer than 50% of fixtures are replaced and total lighting power does not increase.	R503.1.4		
Change in space conditioning	Unconditioned space altered to become conditioned space is in full compliance with the code	R503.2	An exception when the simulated performance option in Section R405 is used allows the proposed design energy cost to be 110% of the otherwise allowed limit.	

* Code section added or modified by State amendment

END OF ADDITIONS AND ALTERATIONS CHECKLIST

POINTS OPTION

The Points Option is an alternative to the prescriptive compliance for residential walls and roofs. This option is added to the energy code by Hawai'i State amendment as Section R407.

Select one or more efficiency measures for the roof and walls so that the total score ≥ 0 . Roof and walls may comply together or separately.

There are two columns: one for dwellings following the standard prescriptive compliance path and another for dwellings following the Tropical Zone compliance path.

Points Option for Dwellings with Wood-Framed Walls

Measure	Standard Home Points	Tropical Home Points
R-13 Cavity Wall Insulation	0	1
R-19 Roof Insulation	-1	0
R-19 Roof Insulation + Cool roof membrane ¹ or Radiant Barrier ³	0	1
R-19 Roof Insulation + Attic Venting ²	0	1
R-30 Roof Insulation	0	1
R-13 Wall Insulation + high reflectance walls ⁴	1	2
R-13 Wall insulation + 90% high efficacy lighting and Energy Star Appliances ⁵	1	2
R-13 Wall Insulation + exterior shading wpf=0.3 ⁶	1	2
Ductless Air Conditioner ⁷	1	1
1.071 X Federal Minimum SEER for Air Conditioner	1	1
1.142 X Federal Minimum SEER for Air Conditioner	2	2
No air conditioning installed	Not Applicable	2
House floor area $\leq 1,000 \text{ ft}^2$	1	1
House floor area $\geq 2,500 \text{ ft}^2$	-1	-1
Energy Star Fans ⁸	1	1
Install 1 kW or greater of solar electric	1	1

See the last page for notes

Points Option for Dwellings with Metal-Framed Walls

Measure	Standard Home Points	Tropical Home Points
R-13 +R 3 Wall Insulation	0	1
R-13 Cavity Wall insulation + R-0	-1	0
R-13 Wall Insulation + high reflectance walls ⁴	0	1
R-13 Wall insulation + 90% high efficacy lighting and Energy Star Appliances ⁵	1	2
R-13 Wall Insulation + exterior shading wpf=0.3 ⁶	0	1
R-30 Roof Insulation	0	1
R-19 Roof Insulation	-1	0
R-19 + Cool roof membrane ¹ or Radiant Barrier ³	0	1
R-19 Roof Insulation + Attic Venting ²	<u>0</u>	<u>1</u>
Ductless Air Conditioner ⁷	<u>1</u>	<u>1</u>
1.071 X Federal Minimum SEER for Air Conditioner	<u>1</u>	<u>1</u>
1.142 X Federal Minimum SEER for Air Conditioner	<u>2</u>	<u>2</u>
No air conditioning installed	<u>Not Applicable</u>	<u>2</u>
House floor area ≤ 1,000 ft ²	<u>1</u>	<u>1</u>
House floor area ≥ 2,500 ft ²	<u>-1</u>	<u>-1</u>
Energy Star Fans ⁸	<u>1</u>	<u>1</u>
Install 1 kW or greater of solar electric	<u>1</u>	<u>1</u>

See the last page for notes

Points Option for Dwellings with Mass Walls

Measure	Standard Home Points	Tropical Home Points
R-3/4 Insulation	0	1
R-0 Wall insulation	-1	0
R-0 Wall Insulation + high reflectance walls ⁴	0	1
R-0 Wall insulation + 90% high efficacy lighting and Energy Star Appliances ⁵	1	2
R-0 Wall Insulation + exterior shading wpf=0.3 ⁶	0	1
R-19 Roof/ceiling Insulation	-1	0
R-19 + Cool roof membrane ¹ or Radiant Barrier ³	0	1
R-19 Roof Insulation + Attic Venting ²	<u>0</u>	<u>1</u>
R-30 Roof/ceiling Insulation	0	1
Ductless Air Conditioner ⁷	<u>1</u>	<u>1</u>
1.071 X Federal Minimum SEER for Air Conditioner	<u>1</u>	<u>1</u>
1.142 X Federal Minimum SEER for Air Conditioner	<u>2</u>	<u>2</u>
No air conditioning installed	<u>Not Applicable</u>	<u>2</u>
House floor area ≤ 1,000 ft ²	<u>1</u>	<u>1</u>
House floor area ≥ 2,500 ft ²	<u>-1</u>	<u>-1</u>
Energy Star Fans ⁸	<u>1</u>	<u>1</u>
Install 1 kW or greater of solar electric	<u>1</u>	<u>1</u>

Notes:

¹ Cool roof with three-year aged solar reflectance of 0.55 and 3-year aged thermal emittance of 0.75 or 3-year aged solar reflectance index of 64.

² One cfm/ft² attic venting.

³ Radiant barrier shall have an emissivity of no greater than 0.05 as tested in accordance with ASTM E-408. The radiant barrier shall be installed in accordance with the manufacturer's installation instructions.

⁴ Walls with covering with a reflectance of ≥ 0.64.

⁵ Energy Star rated appliances include refrigerators, dishwashers, and clothes washers and must be installed for the Certificate of Occupancy

⁶ The wall projection factor is equal to the horizontal distance from the surface of the wall to the farthest most point of the overhang divided by the vertical distance from the first-floor level to the bottom most point of the overhang.

⁷ All air conditioning systems in the house must be ductless to qualify for this credit.

⁸ Install ceiling fans in all bedrooms and the largest space that is not used as a bedroom.