

**HAWAI'I COUNTY ENERGY CODE**

**2018 IECC, HAWAI'I REVISED STATUTES [HRS 107-24 TO 28](#) & HAWAI'I ADMINISTRATIVE RULES [HAR 3-181.1](#)**

**RESIDENTIAL BUILDING ENERGY EFFICIENCY STANDARDS**

I CERTIFY THAT THE DESIGN IS IN CONFORMANCE WITH THE BUILDING ENERGY EFFICIENCY STANDARDS PERTAINING TO THE RESIDENTIAL PROVISIONS OF THE 2018 IECC WITH AMENDMENTS PER HAR CHAPTER 3-181.1:

STATE AMENDMENTS: [EFFECTIVE FOR NEW APPLICATIONS BEGINNING 09/01/2021](#)  
COUNTY AMENDMENTS: PENDING

**COMPLIANCE METHOD**

- Tropical Zone. R401.2.1
  - Points Option. R407 (Populate Checklist)
- Prescriptive. R402
  - Roof and Wall
    - Insulation R-value. Table R402.1.2
    - Construction U-factor. Table R402.1.4
    - Total UA. R402.1.5
    - Points Option. R407 (Populate Checklist)
- Simulated Performance Alternative. R405
- Energy Rating Index Compliance Alternative. R406

**INFORMATION IN CONSTRUCTION DOCUMENTS**

	<b>Yes</b>	<b>N/A</b>
Envelope		
Roof insulation R-value	<input type="checkbox"/>	<input type="checkbox"/>
Roof insulation type and location	<input type="checkbox"/>	<input type="checkbox"/>
Roof membrane solar reflectance and thermal emittance	<input type="checkbox"/>	<input type="checkbox"/>
Wall insulation R-value	<input type="checkbox"/>	<input type="checkbox"/>
Wall insulation type and location	<input type="checkbox"/>	<input type="checkbox"/>
Window and skylight SHGC	<input type="checkbox"/>	<input type="checkbox"/>
Air leakage testing requirement	<input type="checkbox"/>	<input type="checkbox"/>
Air Conditioning		
Air conditioning equipment capacity and efficiency	<input type="checkbox"/>	<input type="checkbox"/>
Programmable thermostat	<input type="checkbox"/>	<input type="checkbox"/>
Duct insulation R-value	<input type="checkbox"/>	<input type="checkbox"/>
Duct leakage testing requirement	<input type="checkbox"/>	<input type="checkbox"/>
Electrical		
Lighting fixture locations	<input type="checkbox"/>	<input type="checkbox"/>
Lamp type	<input type="checkbox"/>	<input type="checkbox"/>
Ceiling fans	<input type="checkbox"/>	<input type="checkbox"/>
Whole-house fan	<input type="checkbox"/>	<input type="checkbox"/>

NOTES

Please Utilize Points Options Checklist(s) When R407 is to be Utilized

Note(s) and Consideration(s)

1. Please explicitly indicate code sections for any exceptions or exemptions designer is to be utilizing
  - a. Most exemptions available come under R402.1, so for example:
    - i. Indicate "Prescriptive Compliance" (Check Box)
    - ii. Indicate "N/A" for all Envelope systems (R402) (Check Boxes)
    - iii. Indicate applicable Systems (R403) (Check Boxes) – Compliance still required/must be verified
    - iv. Indicate applicable Electrical Power and Lighting Systems (R404) – Compliance still required/must be verified
    - v. Provide notation citing exception/exemption that applies, Example(s):
      - Exempt – R402.1 – Exception #1.2 – New dwelling that does "not contain conditioned space"
      - Exempt – R402.1 – Exception #3 – Dwelling with permitted, off-grid, self-supplying photovoltaic with battery back up. (No HELCO Service)
2. Points Method(s) – (R407)
  - a. Please utilize tables below as applies (Wood or Metal Framed Construction). Provide table adjacent to IECC Compliance block – Verify Points Total ≥ "0" per R407.

Wood Framed – Points Options Checklist							
	Wall		Roof		Mech/Electrical		Other
<input type="checkbox"/>	No Cavity Wall Insulation (Trop Only)	<input type="checkbox"/>	R-30 Roof Insulation	<input type="checkbox"/>	Ductless Air Conditioner	<input type="checkbox"/>	House floor area ≤ 1,000 SF
<input type="checkbox"/>	R-13 Wall Insulation	<input type="checkbox"/>	R-19 Roof Insulation	<input type="checkbox"/>	1.071 X Federal Minimum SEER for Air Conditioner	<input type="checkbox"/>	House floor area ≥ 2,500 SF
<input type="checkbox"/>	R-13 Wall Insulation + high reflectance walls	<input type="checkbox"/>	R-19 + Cool roof membrane or Radiant Barrier	<input type="checkbox"/>	1.142 X Federal Minimum SEER for Air Conditioner	<input type="checkbox"/>	Energy Star Fans
<input type="checkbox"/>	R-13 Wall Insulation + 90% high efficacy lighting and Energy Star Appliances	<input type="checkbox"/>	R-19 Roof Insulation + Attic Venting	<input type="checkbox"/>	No air conditioning installed	<input type="checkbox"/>	Install 1 kW or greater of solar electric
<input type="checkbox"/>	R-13 Wall Insulation + exterior shading wpf=0.36	<input type="checkbox"/>	R-13 + Cool roof membrane or Radiant Barrier			<input type="checkbox"/>	Reduce fenestration from 14% to 10%

Metal Framed – Points Options Checklist							
	Wall		Roof		Mech/Electrical		Other
<input type="checkbox"/>	No Cavity Wall Insulation (Trop Only)	<input type="checkbox"/>	R-30 Roof Insulation	<input type="checkbox"/>	Ductless Air Conditioner	<input type="checkbox"/>	House floor area ≤ 1,000 SF
<input type="checkbox"/>	R-13 + R 3 Wall Insulation	<input type="checkbox"/>	R-19 Roof Insulation	<input type="checkbox"/>	1.071 X Federal Minimum SEER for Air Conditioner	<input type="checkbox"/>	House floor area ≥ 2,500 SF
<input type="checkbox"/>	R-13 cavity Wall Insulation + R-0	<input type="checkbox"/>	R-19 + Cool roof membrane or Radiant Barrier	<input type="checkbox"/>	1.142 X Federal Minimum SEER for Air Conditioner	<input type="checkbox"/>	Energy Star Fans
<input type="checkbox"/>	R-13 Wall Insulation + high reflectance walls	<input type="checkbox"/>	R-19 Roof Insulation + Attic Venting	<input type="checkbox"/>	No air conditioning installed	<input type="checkbox"/>	Install 1 kW or greater of solar electric
<input type="checkbox"/>	R-13 Wall Insulation + 90% high efficacy lighting and Energy Star Appliances	<input type="checkbox"/>	R-13 + Cool roof membrane1 or Radiant Barrier			<input type="checkbox"/>	Reduce fenestration from 14% to 10%
<input type="checkbox"/>	R-13 Wall Insulation + exterior shading wpf=0.36						