

COMMERCIAL CHECKLIST

Kauai Supplement



OVERVIEW

Kauai adopted the 2015 IECC with amendments on November 30, 2018, and the Kauai amendments incorporate those adopted by the State of Hawaii on March 21, 2017 with some changes. This supplemental checklist includes only the requirements that differ in Kauai compared to the State amendments. The complete requirements of the 2015 IECC with State amendment are described in a separate checklist.

AMENDED ENVELOPE REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
ENVELOPE REQUIREMENTS				
Roof – metal building	<u>R-30 or R-19 with cool roof</u>	C402.1, C402.2	A cool roof meets criteria in Table C402.3, either: <ul style="list-style-type: none"> • Minimum aged solar reflectance of 0.55 and aged thermal emittance of 0.75, or • Minimum aged solar reflectance index (SRI) of 0.64 	<input type="checkbox"/> Insulation R-value on plans <input type="checkbox"/> Roof reflectance and thermal emittance or SRI on plans (if applicable)
Roof – attic or other	<u>R-30 or R-19 with cool roof</u>	C402.1, C402.2	This category includes attics, cathedral ceilings, and insulation installed under the roof deck. Insulation on top of suspended ceiling is not allowed for compliance.	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans
Wall – mass (CMU or concrete)	R-5.7 or U-0.151 <u>(Insulation not required with reflectance ≥ 0.64, shading PF ≥ 0.3 or wall thickness ≥ 6 in.)*</u>	C402.1, C402.2	Requires either exterior or interior insulation. CMU integral insulation does not comply. No insulation is required if the mass wall has an exterior visible light reflectance of at least 64% or the wall is shaded with overhangs with projection that is at least 0.3 times the height of the wall or the wall is at least 6 inches thick.	<input type="checkbox"/> Insulation location on plans <input type="checkbox"/> Insulation R-value on plans <input type="checkbox"/> Wall surface visible light reflectance on plans (if applicable)

* Code section added or modified by Hawaii amendment

AMENDED LIGHTING AND ELECTRICAL REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
LIGHTING AND ELECTRICAL REQUIREMENTS				
Controls - occupant sensor	<u>Not required if designed lighting power < 70% of allowed lighting power.</u>	C405.2.1		
Controls - time-switch	<u>Not required if designed lighting power < 70% of allowed lighting power.</u>	C405.2.2		
Controls - daylight-responsive	<u>Not required if designed lighting power < 70% of allowed lighting power.</u>	C405.2.3		
Controls – display & accent lighting	<u>Not required if designed lighting power < 70% of allowed lighting power.</u>	C405.2.4		
Controls – guest rooms	<u>Not required if designed lighting power < 70% of allowed lighting power.</u>	C405.2.4*	Typically key-card or motion-sensor based controls. Hawaii amendment adds timeshare sleeping units.	
Electrical sub-metering	In new buildings with tenants, metering <u>may</u> be collected for the entire building and individually for each tenant <u>occupying spaces with three electrical circuits or more.</u> Tenants shall have access to data collected for their space. <u>A tenant is defined as “one who rents or leases from a landlord.”</u>	C405.10*		

* Code section added or modified by Hawaii amendment

AMENDED ALTERATIONS REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
ALTERATIONS				
Roof	No requirement: <ul style="list-style-type: none"> ▪ Roof recover ▪ Ceiling/roof cavity not exposed ▪ <u>Roof replacement</u> New-construction requirements apply: <ul style="list-style-type: none"> ▪ New roof ▪ Alteration where ceiling/roof cavity is exposed (exception if cavity is filled with insulation) 	C503.1 C503.3.1*	<ul style="list-style-type: none"> • Any new roof must meet the requirements for a new roof. • Roof alterations that expose the ceiling or roof cavity where that cavity is part of the thermal envelope shall meet the R-value requirement for new roofs, except a lower R-value is allowed if the cavity is filled with insulation. There are no requirements for roof replacements, but they are encouraged to include at least one of the following: <ul style="list-style-type: none"> ▪ EnergyStar compliant covering ▪ Radiant barrier • Attic ventilation via solar fan, ridge ventilation or gable vents. 	

* Code section added or modified by Hawaii amendment

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