

COMMERCIAL CHECKLIST

Honolulu Supplement



OVERVIEW

Honolulu adopted the 2015 IECC with amendments in June 2020, and the Honolulu 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 Honolulu 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				
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)
Windows – solar heat gain coefficient (SHGC)	≤ 0.25 if projection factor < 0.2 . ≤ 0.30 if projection factor 0.2-0.5. ≤ 0.40 if projection factor ≥ 0.5 . (Area-weighted average permitted) <u>Jalousie windows exempted from SHGC requirement</u>	C402.4.3	Projection factor = horizontal projection of overhang \div vertical distance from overhang to bottom of window. Area-weighted average SHGC allowed (by Hawaii amendment).	<input type="checkbox"/> SHGC indicated on plans <input type="checkbox"/> Overhang dimensions on plans, if applicable
Skylights – maximum area	$\leq 3\%$ of gross roof area ($\leq 5\%$ when meeting daylighting requirements) <u>(or $\leq 5\%$ if lighting power $\leq 60\%$ of allowance)</u>	C402.4.1.2	Up to 5% allowed when space under the skylight has daylight-responsive controls <u>or if the lighting power is no greater than 60% of the allowed power.</u> If the project cannot comply with the prescriptive limit on skylight area, then it must comply with Section C407 Total Building Performance.	

AMENDED MECHANICAL SYSTEM REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
MECHANICAL SYSTEM REQUIREMENTS				
Mechanical system commissioning	For buildings with ≥ 480 kBtu/hr cooling capacity: <ul style="list-style-type: none"> ▪ Include construction document notes indicating commissioning requirements ▪ Provide evidence of commissioning prior to final <u>inspection certificate of occupancy</u>. 	C408.2	Likely to apply to air-conditioned buildings of about 20,000 sf or larger. Plans may refer to specifications for detailed commissioning requirements. Requires a commissioning plan.	<input type="checkbox"/> Notes on plans indicate commissioning requirements

AMENDED LIGHTING AND ELECTRICAL REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
LIGHTING AND ELECTRICAL REQUIREMENTS				
Controls - time-switch	<u>Not required if designed lighting power < 60% of allowed lighting power.</u>	C405.2.2		
Controls – light reduction	<u>Not required if designed lighting power < 60% of allowed lighting power.</u>	C405.2.2.2		
Controls - daylight-responsive	<u>Not required if designed lighting power < 60% of allowed lighting power.</u>	C405.2.3		
Electric vehicle infrastructure	<u>A minimum number of newly-created parking stalls for newly-constructed buildings must be EV charger ready</u>	C406.8	<p><u>Applies to new multi-unit residential projects that add 8 or more parking stalls and to new commercial buildings that add 12 or more parking stalls.</u></p> <p><u>EV charging ready means sufficient wire, conduit, electrical panel service capacity, overcurrent protection devices and suitable termination points are provided to connect an AC level 2 charger.</u></p> <p><u>Two compliance paths:</u> <u>1) baseline percentage, ≥25% in most cases</u> <u>2) points-based</u></p> <p><u>Exception for affordable housing for residents at 100% or less median income</u></p>	

AMENDED ADDITIONAL EFFICIENCY REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
ADDITIONAL EFFICIENCY REQUIREMENTS				
Reduced lighting power density	<ul style="list-style-type: none"> ▪ 10% <u>20%</u> lower allowed lighting power 	C406.3	The connected interior lighting power for the proposed design must be at least 10% lower than the allowed interior lighting power.	

AMENDED ALTERATIONS REQUIREMENTS

Component/System	Requirement	Code Section	Plan Review Notes	Info on Plans
ALTERATIONS				
Roof replacement	<p><u>Replacement of uninsulated roofs include either initial reflectance \geq 85% and aged reflectance \geq 75% or at least two of the following:</u></p> <ul style="list-style-type: none"> ▪ <u>EnergyStar compliant covering</u> ▪ <u>Radiant barrier, or</u> ▪ <u>Attic ventilation via solar fan(s), ridge ventilation or gable vents</u> ▪ <u>Two or more exceptions in Table C402.3</u> 	C503.3.1	<ul style="list-style-type: none"> • Any new roof must meet the requirements for a new roof. • No requirements for roof recover. 	