



## What Are the Accessory Dwelling Unit Requirements?

The 2022 California Building Energy Efficiency Standards (Energy Code or Title 24, Part 6) includes requirements for single-family and multifamily accessory dwellings units (ADUs).

An ADU is an accessory to a primary residence and has complete independent living facilities for one or more persons. It is supported in the Energy Code as a single-family project when the ADU is associated with a single-family occupancy, and multifamily when associated with a multifamily occupancy. This fact sheet will focus on single-family ADUs.

**Single-family Building:** *A residential building of Occupancy Group R-3 with two or less dwelling units; a building of Occupancy Group R-3, other than a multifamily building or hotel/motel building; a townhouse; a building of Occupancy Group R-3.1; or a building of Occupancy Group U when located on a residential site.*

## How Does this Fact Sheet Apply to Your Project?

ADU Energy Code requirements differ depending upon the ADU type. Use this fact sheet to determine your ADU type and the Energy Code compliance options and requirements applicable to that ADU type. This includes requirements for envelope, mechanical systems, renewables and electric readiness.

## Importance of Compliance

California continues to encourage and support ADUs through the legislative process via Assembly and Senate bills, in addition to recent changes in Government Code §65852.150. Complying with building codes assures health, safety and cost-effective energy efficiency measures, many of which aim to reduce California's greenhouse gas emissions.

It is important to confirm the ADU development and design standards of the local jurisdiction because each jurisdiction determines how compliance with California legislation supporting ADU construction impacts the local concerns such as parking, height and setback.

### California Department of Housing and Community Development

To learn more about ADU laws and requirements, see the California Department of Housing and Community Development (HCD) website. The HCD maintains the *Accessory Dwelling Unit Handbook* and other useful information on the HCD website at <https://www.hcd.ca.gov/policy-and-research/accessory-dwelling-units>

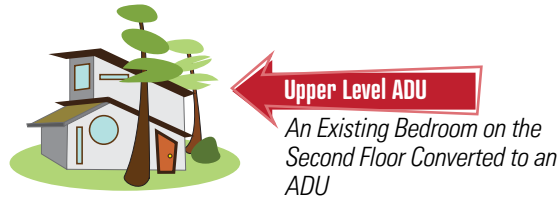
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# Key Terms

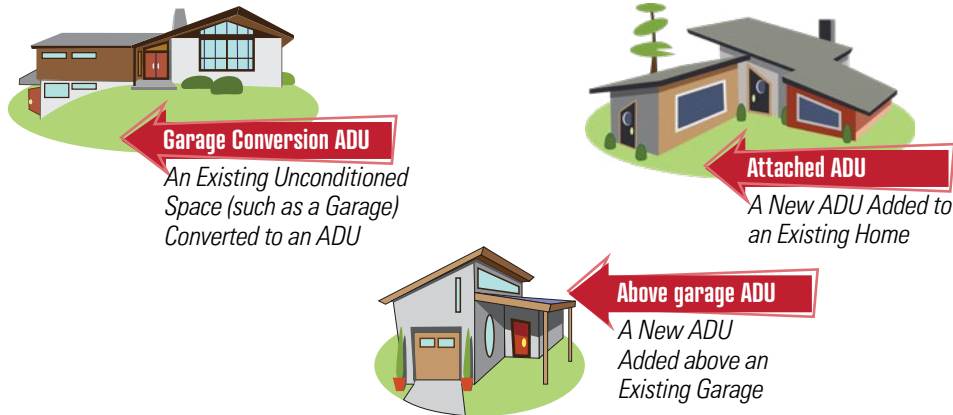
## Alteration ADU Type

These are ADUs that are converting existing permitted conditioned space, such as a family room, to an ADU.



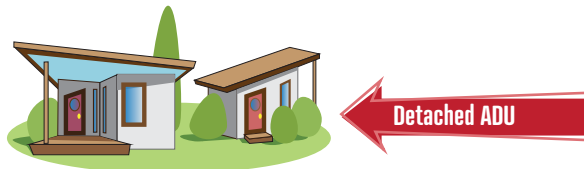
## Addition ADU Type

These are ADUs that are converting an existing space or building that was not habitable space and is considered “newly conditioned space” in the Energy Code or that are adding new conditioned floor area and volume to an existing single-family or multifamily building.



## New Construction ADU Type

These are ADUs that are not being attached to any other structure on the property and are all New Construction.



## Factory-built ADU Type

Typically considered a New Construction ADU type, these are factory-constructed versions of site-built ADUs that are manufactured and then transported to their permanent installation locations. These are regulated by the California Department of Housing and Community Development (HCD) under Title 25, which incorporates Title 24 as the applicable building code for design and construction. These ADUs are reviewed and approved through HCD Factory-built Housing (FBH) requirements with the on-site installation and assembly under the jurisdiction of the local authority (typically the local building department). As these are constructed off-site, many of the Home Energy Rating System (HERS) verifications are performed at the factory. Information about the FBH program can be found at <https://www.hcd.ca.gov/building-standards/manufactured-modular-factory-built/factory-built-housing/docs/hcdfbh314.pdf>.

## Manufactured ADU Type

Previously known as mobile homes, these are ADUs that are transportable in one or more sections and include use of a permanent chassis. These are not subject to the California Building Code and must show compliance with Title 25. *Note that Title 25 requirements are not included in this fact sheet.*



## California Climate Zones







To know which efficiency requirements of the Energy Code apply to a project, it is important to identify the Climate Zone where the building is located. The California Energy Commission (CEC) has developed the EZ Building Climate Zone Finder to identify the applicable Climate Zone based on the building's address: [bit.ly/CEC-Climate-Zone-Finder](http://bit.ly/CEC-Climate-Zone-Finder).



# Compliance Requirements

## Mandatory Requirements

Projects must meet applicable Mandatory requirements for existing features of the conditioned building that are being altered or any features that are being added as new.

Requirement Type	Alteration ADU Altered Features		Addition ADU New Features		New Construction ADU	
	 Mandatory	 Prescriptive	 Mandatory	 Prescriptive	 Mandatory	 Prescriptive
<b>Envelope</b>						
Insulation	<a href="#">Yes</a>	<a href="#">Yes</a> for ceiling	<a href="#">Yes</a>	<a href="#">Yes</a>		
Fenestration	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>
Rated Roofing	N/A	<a href="#">Yes</a> if > 50% replaced	N/A	<a href="#">Yes</a> if Addition > 300 ft <sup>2</sup>		
<b>HVAC</b>						
Equipment	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>
HERS Measures	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>	<a href="#">Yes</a>		
<b>Indoor Air Quality</b>	<a href="#">Yes</a>	N/A	<a href="#">Yes</a>	N/A	<a href="#">Yes</a>	N/A
<b>Water Heating</b>	<a href="#">Yes</a> for pipe insulation	<a href="#">Yes</a> for equipment	<a href="#">Yes</a> for pipe insulation	<a href="#">Yes</a> for equipment	<a href="#">Yes</a>	<a href="#">Yes</a>
<b>Lighting*</b>	<b>Yes</b>	N/A	<b>Yes</b>	N/A	<b>Yes</b>	N/A
<b>Photovoltaics</b>	N/A	N/A	N/A	N/A	N/A	<a href="#">Yes</a>
<b>Battery Storage</b>	N/A	N/A	N/A	N/A	N/A	<a href="#">Credit allowed in Performance Approach</a>
<b>Energy Storage Systems Readiness</b>	N/A	N/A	N/A	N/A	<a href="#">Yes</a> if no battery installed	N/A
<b>Electric Readiness</b>	N/A	N/A	N/A	N/A	<a href="#">Yes</a>	N/A
<b>Solar Readiness</b>	N/A	N/A	N/A	N/A	<a href="#">Yes</a> **	N/A

**ADU** = accessory dwelling unit; **HERS** = Home Energy Rating System.

\*See the 2022 Residential Lighting Fact Sheet: <https://www.energycodeace.com/resources/?itemld=70413>

\*\* Solar readiness is required for an ADU only when the ADU is associated with a new subdivision of ≥ 10 homes.

**Table 1.** When ADU Projects Trigger the Energy Code

## Prescriptive Requirements

Using the Prescriptive Approach for compliance, projects must meet applicable Prescriptive requirements for existing features of the conditioned building that are being altered or any features that are being added as new. Altered feature requirements may differ based on the scope of work. Addition ADU types have alternate requirements for extended walls and converted walls in which the siding remains.

## Performance Requirements

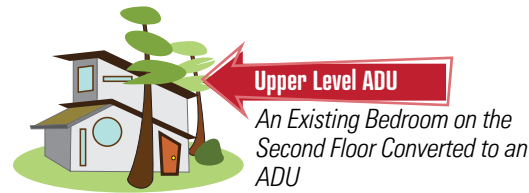
Using the Performance Approach for compliance may allow more design flexibility than meeting the Prescriptive measures, although Mandatory Measures are still required. California Energy Commission (CEC)-approved software identifies Performance compliance options and can be found here: [bit.ly/CEC-2022-Compliance-Software](http://bit.ly/CEC-2022-Compliance-Software)

Under the 2022 Energy Code, compliance is determined by assessing the Proposed Design features against the Standard Design features. A project complies when the proposed compliance values are equal to or better than the standard compliance values.

- ✦ Alteration ADU Type: Buildings comply when the altered building efficiency features (such as insulation and mechanical equipment efficiency) show compliance.
- ✦ Addition ADU Type: Buildings comply when the building efficiency features associated with the Addition (such as insulation and mechanical equipment efficiency) show compliance.
- ✦ New Construction ADU Type: Buildings comply when all of the metrics listed below show compliance:
  - ◇ Building efficiency features (such as insulation and mechanical equipment efficiency)
  - ◇ Photovoltaics (PV) and battery storage systems
  - ◇ Source energy determined by a carbon-proxy analysis of the building in kBtu/ft<sup>2</sup>-yr (to support decarbonization and electrification policy goals)



# Alteration ADU Type



- Mandatory**
- Prescriptive**
- Performance**

## Envelope - Alteration ADU Type §150.2(b)



Roof §§150.2(b)1I-J	Wall §150.0(c)	Floor §§150.0(d), 150.0(f)	Fenestration §§150.2(b)1A-B	HERS Measures §150.2(b)
<p> <b>Insulation at Ceiling</b></p> <p><b>CZ 1, 2, 4, 8-16</b></p> <ul style="list-style-type: none"> <li>Low-sloped roof replacements require R-14 continuous insulation or U-factor of 0.039.*</li> </ul> <p><b>CZ 1-4, 6, 8-16</b></p> <ul style="list-style-type: none"> <li>Altered vented attics require <math>\geq</math> R-49 or equivalent U-factor <math>\leq</math> 0.020.*</li> </ul> <p><b>CZ 2, 4, 8-16</b></p> <ul style="list-style-type: none"> <li>Vented attic air sealing and recessed downlight insulation requirements must be met.*</li> </ul> <p><b>CZ 1, 3</b></p> <ul style="list-style-type: none"> <li>Existing insulation <math>\geq</math> R-19 is allowed to remain and exempts the project from air sealing and recessed downlight insulation requirements. If existing insulation is <math>&lt;</math> R-19, then <math>\geq</math> R-49 is required.</li> <li>Non-vented attics require R-19, per <a href="#">§150.0(a)2-4</a>.</li> </ul> <p><b>CZ 5-7</b></p> <ul style="list-style-type: none"> <li>Either <math>\geq</math> R-22 is required between wood framing, or the U-factor must be <math>\leq</math> 0.043.</li> </ul> <p><b>CZ 1, 3, 6</b></p> <ul style="list-style-type: none"> <li>If existing insulation is <math>&lt;</math> R-19, then <math>&gt;</math> R-49 is required and air sealing and recessed downlighting insulation requirements must be met.</li> </ul> <p><i>(Continued on next page)</i></p>	<p> <b>Insulation</b></p> <p><b>Framed</b></p> <ul style="list-style-type: none"> <li>2 x 4: Require <math>\geq</math> R-13 in wood framing or equivalent U-factor <math>\leq</math> 0.102.**</li> <li>2 x 6: Require <math>\geq</math> R-20 in wood framing or equivalent U-factor <math>\leq</math> 0.071.**</li> </ul> <p><b>Non-Framed</b></p> <ul style="list-style-type: none"> <li>Require U-factor <math>\leq</math> 0.102 (per applicable <a href="#">JA4.3 table</a>).</li> </ul> <p><b>Masonry</b></p> <ul style="list-style-type: none"> <li>Insulation is required with the R-value depending on CZ, location of wall and insulation placement (per <a href="#">Table 150.1-A</a>).</li> </ul> <p> <b>Doors</b></p> <ul style="list-style-type: none"> <li>For solid door requirements, see <a href="#">§150.1(c)5</a>.</li> </ul>	<p> <b>Insulation</b></p> <p><b>Raised</b></p> <ul style="list-style-type: none"> <li>Require <math>\geq</math> R-19 in wood framing or equivalent U-factor <math>\leq</math> 0.037.**</li> </ul> <p><b>Slab on Grade</b></p> <ul style="list-style-type: none"> <li>Heated Slab: Perimeter insulation requirements of <a href="#">§150.0(f)</a> apply.</li> <li>Unheated Slab: The above perimeter insulation requirements do not apply.</li> </ul>	<p> <b>Altered Fenestration</b></p> <p><b><math>\leq</math> 75 ft<sup>2</sup> Altered Fenestration</b></p> <ul style="list-style-type: none"> <li>U-factor: Require <math>\leq</math> 0.40.</li> <li>SHGC: In CZ 2, 4, 6-15, require <math>\leq</math> 0.35.</li> <li>Area Limits: None apply.***</li> </ul> <p><b><math>&gt;</math> 75 ft<sup>2</sup> Altered Fenestration</b></p> <ul style="list-style-type: none"> <li>U-factor: Require <math>\leq</math> 0.30.</li> <li>SHGC: In CZ 2, 4, 6-15, require <math>\leq</math> 0.23.</li> <li>Area Limits: None apply.***</li> </ul> <p><b>Any Skylights</b></p> <ul style="list-style-type: none"> <li>U-factor: Require <math>\leq</math> 0.55.</li> <li>SHGC: Require <math>\leq</math> 0.30.</li> <li>Area Limits: None apply.***</li> </ul> <p><i>(Continued on next page)</i></p>	<p> <b>Quality Insulation Installation (QII)</b></p> <ul style="list-style-type: none"> <li>QII is not Prescriptively required nor allowed as a Performance credit.</li> </ul>



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**Envelope - Alteration ADU Type §150.2(b)**

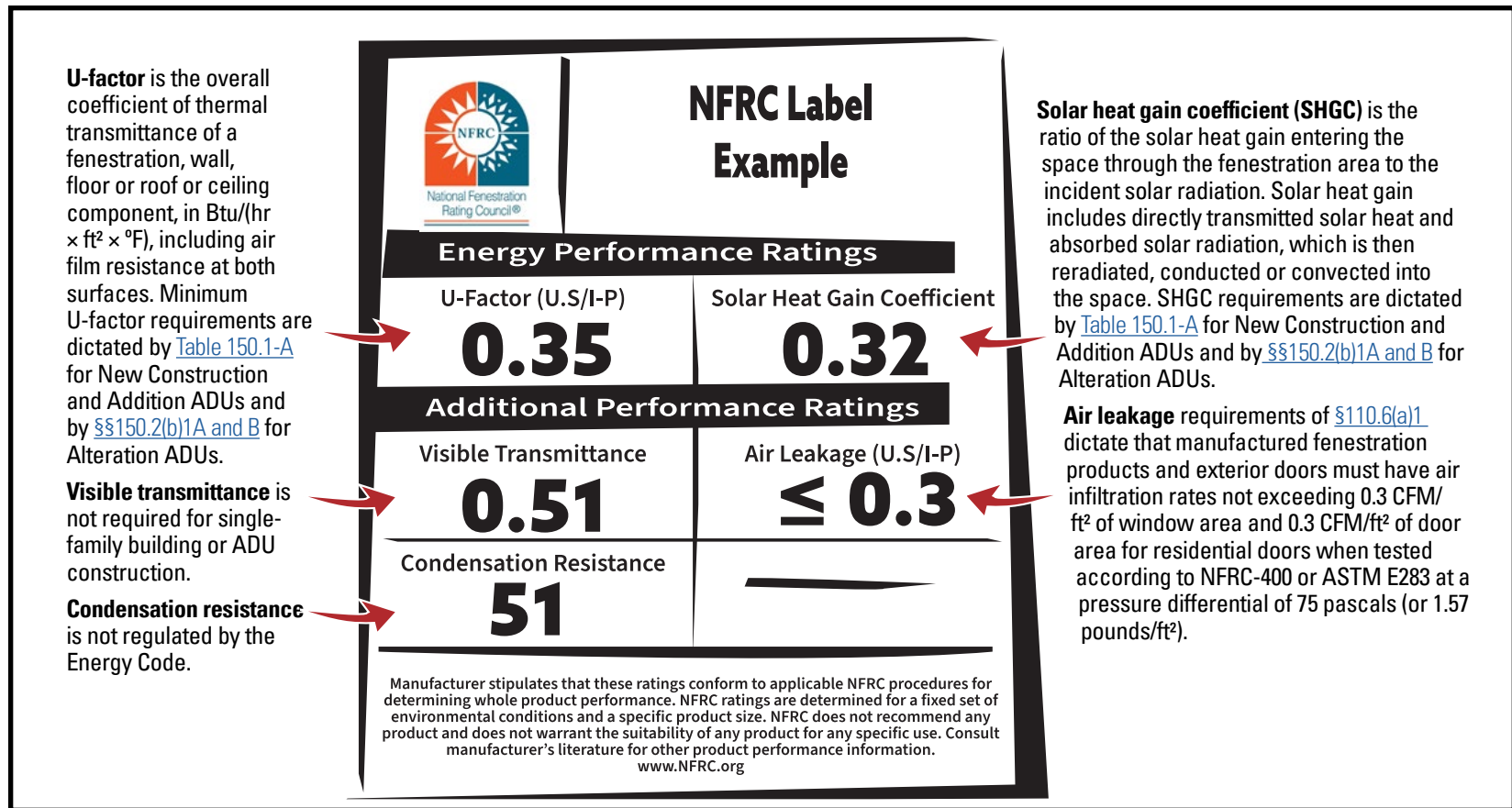
Roof §§150.2(b)1I-J	Wall §150.0(c)	Floor §§150.0(d), 150.0(f)	Fenestration §§150.2(b)1A-B	HERS Measures §150.2(b)
<p><b>All CZs</b> Vented attics are exempt from the above requirements in any of the following situations:</p> <ul style="list-style-type: none"> <li>✦ R-38 or greater ceiling insulation exists.</li> <li>✦ Asbestos would be disturbed.</li> <li>✦ Knob and tube wiring is located in the vented attic.</li> <li>✦ When the accessible space does not support R-49, it must be filled with what is allowed per Title 24, Part 2.5.</li> <li>✦ The attic space above the altered dwelling unit is shared with unaltered attic space of other dwelling units.</li> </ul> <p> <b>Roofing Replacement</b></p> <p><b>Steep-sloped: CZ 4, 8-15</b> <b>Low-sloped: CZ 4, 6-15</b></p> <ul style="list-style-type: none"> <li>✦ Rated roofing material must be CRRC certified.</li> <li>✦ Minimum requirements differ based on roof slope.* See §150.2(b)1I.</li> </ul> <p><b>Steep-sloped: CZ 4, 8-15</b> <b>Low-sloped: CZ 4, 6-15</b></p> <ul style="list-style-type: none"> <li>✦ The above roofing material requirements do not apply.</li> </ul> <p><b>CZ 1, 2, 4, 8-16</b></p> <ul style="list-style-type: none"> <li>✦ See insulation requirements on p. 4 when reroofing low-sloped roofs.</li> </ul>			<p> <b>Added Fenestration</b></p> <p><b>Any ft<sup>2</sup> Added Fenestration</b></p> <ul style="list-style-type: none"> <li>✦ U-factor: Require <math>\leq 0.30</math>.</li> <li>✦ SHGC: In CZ 2, 4, 6-15, require <math>\leq 0.23</math>.</li> <li>✦ Area Limits: *** <ul style="list-style-type: none"> <li>◇ <math>\leq 75</math> ft<sup>2</sup>: None apply.</li> <li>◇ <math>&gt; 75</math> ft<sup>2</sup>: In all CZ: Limited to whole building total <math>\leq 20\%</math> of the CFA. In CZ 2, 4, 6-15: Also limited to whole building west-facing <math>\leq 5\%</math> of the CFA.</li> </ul> </li> </ul> <p><b>Skylights <math>\leq 16</math> ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ U-factor: Require <math>\leq 0.55</math>.</li> <li>✦ SHGC: Require <math>\leq 0.30</math>.</li> <li>✦ Area Limits: None apply. ***</li> </ul> <p><b>Skylights <math>&gt; 16</math> ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ See <b>Any ft<sup>2</sup> Added Fenestration</b> above.</li> </ul> <p>Note: Total fenestration area includes skylights. Total west-facing fenestration area includes skylights with pitch <math>&lt; 1:12</math> facing any direction, and west-facing skylights with pitch <math>\geq 1:12</math>.</p>	

**Notes**

**ADU** = accessory dwelling unit; **CFA** = conditioned floor area; **CRRC** = Cool Roof Rating Council; **CZ** = Climate Zone; **QII** = quality insulation installation; **SHGC** = solar heat gain coefficient.  
 \* Exceptions may apply.  
 \*\* Non-wood-framed assemblies (such as metal-framed) must show compliance with the required U-factor.  
 \*\*\* "Area limits" refers to Prescriptive maximum total fenestration and total west-facing fenestration area limits for the whole building.

**Table 2.** Alteration ADU Type - Energy Code Envelope Requirements





**Figure 1.** National Fenestration Rating Council (NFRC) Label

## \* Fenestration

U-factor of 0.40 and solar heat gain coefficient (SHGC) of 0.35 represent a National Fenestration Rating Council (NFRC)-rated dual-paned, non-metal-framed, low-e<sup>2</sup> product that was required by previous Energy Code cycles. This requirement allows a home that is altering or adding a minimum amount of fenestration to look cohesive.






U-factor of 0.30 and SHGC of 0.23 represent an NFRC-rated dual-paned, non-metal-framed, low-e<sup>3</sup> product which may have an appearance that differs from fenestration meeting low-e<sup>2</sup> requirements.

## \* HERS-verified Existing Conditions

Performance compliance credit can be gained for single-family buildings when existing building features are improved and their existing conditions are Home Energy Rating System (HERS) verified before going for permit. For more information, see the *2022 Single-family Residential Alternative Calculation (ACM) Reference Manual* at [bit.ly/CEC-2022-SF-ACM-Ref-Manual](http://bit.ly/CEC-2022-SF-ACM-Ref-Manual).



## Mechanical Systems - Alteration ADU Type

Heating or Cooling Systems §§150.2(b)1C-G	IAQ Systems §150.2(b)1M	Water-heating Systems §150.2(b)1H	Electric Readiness
<p> <b>Extension of Existing Ducted HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>Return air from one dwelling unit shall not discharge into another dwelling unit through the heating or cooling air system per 2022 California Mechanical Code §311.4.</li> </ul> <p> <b>Added Ducted HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>This system has the same requirements as New Construction except that heat pump space heating is not required.</li> </ul> <p> <b>Added Ductless HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>This system has the same requirements as New Construction that include minimum equipment efficiency and HERS refrigerant charge testing in CZ 2, 8-15.</li> </ul>	<p> <b>Addition of New Dwelling Unit to an Existing Home</b></p> <p><b>Whole-building IAQ System</b></p> <ul style="list-style-type: none"> <li>Required to be sized per §150.0(o)1C and meet the same requirements.</li> <li>When an IAQ system is installed, airflow must be verified by a HERS Rater.</li> <li>Required when replacing or altering an IAQ system.</li> <li>Not applicable to replaced IAQ systems not previously subject to these requirements which started in the 2008 Energy Code.</li> </ul> <p><b>Local Exhaust</b></p> <ul style="list-style-type: none"> <li>Vented kitchen hoods can be used instead of local exhaust at the kitchen.</li> <li>For new kitchen hoods, minimum airflow must be based on cooktop fuel source and minimum sone rating in §150.0(o)1G. This does not apply to replaced kitchen hoods that were subject to these requirements which started in the 2008 Energy Code.</li> <li>Bathroom local exhaust requirements may apply.</li> </ul>	<p> <b>Water-heating System</b></p> <p><b>Extended Hot Water Piping to Serve ADU</b></p> <ul style="list-style-type: none"> <li>Must meet pipe insulation requirements.</li> </ul> <p><b>Added Water Heater</b></p> <ul style="list-style-type: none"> <li>The Performance Approach is required when adding a new water heater of any type to serve an ADU alteration project.</li> </ul> <p><b>Recirculation Pump</b></p> <ul style="list-style-type: none"> <li>If a recirculation pump is installed, manual-ON control is required for the Prescriptive Approach or use the Performance Approach for other control options.</li> </ul>	<p>Not required for Alterations to existing homes.</p>

### Notes

**ADU** = accessory dwelling unit; **CZ** = Climate Zone; **HERS** = Home Energy Rating System (HERS) Program; **IAQ** = indoor air quality; **NEEA** = Northwest Energy Efficiency Alliance.

**Table 3.** Alteration ADU Type - Energy Code Mechanical Requirements

Renewable Energy Systems - Alteration ADU Type			
Photovoltaics	Battery Storage Systems	ESS Readiness	Solar Readiness
There are no requirements for photovoltaics and no ability to take Performance credit for new or altered systems.	There are no requirements for battery storage systems and no ability to take Performance credit for new or altered systems.	Alterations to existing homes are not required to be energy storage system (ESS) ready.	Alterations to existing homes are not required to be solar ready.

**Table 4.** Alteration ADU Type - Energy Code Renewable Requirements

## Single-family Buildings HVAC Additions and Alterations Fact Sheet

For more information on altered or added HVAC systems, see the Energy Code Ace™ Single-family Buildings HVAC Additions and Alterations Fact Sheet at [bit.ly/ECA-building-fact-sheets](https://bit.ly/ECA-building-fact-sheets).

# Addition ADU Type



- Mandatory
- Prescriptive
- Performance

## Envelope - Addition ADU Type §150.2(a)

Roof §150.2(a)	Wall §150.2(a)	Floor §150.2(a)	Fenestration §150.2(a)1	HERS Measures §150.2(a)1
<p><b>Roof and Ceiling Insulation</b> CZ 1-2, 4, 8-16</p> <p> <b>Vented Attic Roof</b></p> <ul style="list-style-type: none"> <li>✦ ≤ 700 ft<sup>2</sup> require ≥ R-38 in wood framing at ceiling or equivalent U-factor ≤ 0.025** with radiant barrier in CZ 2, 4, 8-15.*</li> <li>✦ &gt; 700 ft<sup>2</sup> covered below in <a href="#">New Construction ADU Type</a>.</li> </ul> <p><b>CZ 3, 5-7</b></p> <p> <b>Vented Attic Roof</b></p> <ul style="list-style-type: none"> <li>✦ ≤ 700 ft<sup>2</sup> require ≥ R-30 in wood framing at ceiling or equivalent U-factor ≤ 0.031** with radiant barrier.*</li> <li>✦ &gt; 700 ft<sup>2</sup> covered below in <a href="#">New Construction ADU Type</a>.*</li> </ul> <p> <b>Unvented Attic or Rafter Roof</b></p> <p>Use the Performance Approach. <b>(Continued on next page)</b></p>	<p> <b>Insulation</b></p> <p><b>Framed: New</b></p> <ul style="list-style-type: none"> <li>✦ CZ 1-5, 8-16: Require U-factor ≤ 0.048 for all framed walls. Example: R-21 in 2x6 wood framing + R-5 continuous per <a href="#">JA4.3.1-D7</a>. See <a href="#">JA4.3.4</a> for metal-framed wall examples.</li> <li>✦ CZ 6-7: Require U-factor ≤ 0.065 for all framed walls. Example: R-13 in 2x4 wood framing + R-5 continuous per <a href="#">JA4.3.1-D3</a>. See <a href="#">JA4.3.4</a> for metal-framed wall examples.</li> </ul> <p><b>Wood-framed: Extended or Converted</b></p> <ul style="list-style-type: none"> <li>✦ 2 x 4: Require ≥ R-15.</li> <li>✦ 2 x 6: Require ≥ R-21.</li> </ul> <p><b>Masonry</b></p> <ul style="list-style-type: none"> <li>✦ Insulation is required with the R-value depending on CZ, location of wall and insulation placement (per <a href="#">Table 150.1-A</a>).</li> </ul> <p><b>Other Wall Types</b></p> <ul style="list-style-type: none"> <li>✦ See <a href="#">Table 150.1-A</a> or use the Performance Approach.</li> </ul> <p><b>(Continued on next page)</b></p>	<p><b>Insulation</b></p> <p><b>Raised</b></p> <p> <b>Framed</b></p> <ul style="list-style-type: none"> <li>✦ Require ≥ R-19 in wood framing or equivalent U-factor ≤ 0.037.**</li> </ul> <p> <b>Raised Mass</b></p> <ul style="list-style-type: none"> <li>✦ CZ 1-2,11,13-14,16: Require ≥ R-8.</li> <li>✦ CZ 12 and 15: Require ≥ R-4.</li> </ul> <p><b>Slab on Grade</b></p> <p> <b>All CZs</b></p> <ul style="list-style-type: none"> <li>✦ Heated slab floors must meet perimeter insulation requirements of <a href="#">§150.0(f)</a>. The perimeter insulation requirements do not apply to unheated slab floors.</li> </ul> <p> <b>CZ 16</b></p> <ul style="list-style-type: none"> <li>✦ Require R-7 or equivalent U-factor ≤ 0.58.</li> </ul>	<p> <b>All Addition Type ADUs</b></p> <p><b>U-factor</b></p> <ul style="list-style-type: none"> <li>✦ Require ≤ 0.30.</li> </ul> <p><b>SHGC</b></p> <ul style="list-style-type: none"> <li>✦ CZ 2, 4, 6-15: Require ≤ 0.23.</li> </ul> <p> <b>Area Limits</b></p> <p><b>Additions ≤ 400 ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ All CZ: Limited to total ≤ 75 ft<sup>2</sup> or 30% of the CFA, whichever is greater.</li> <li>✦ CZ 2, 4, 6-15: Also limited to west-facing ≤ 60 ft<sup>2</sup>.</li> </ul> <p><b>Additions ≤ 700 ft<sup>2</sup> and &gt; 400 ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ All CZ: Limited to total ≤ 120 ft<sup>2</sup> or 25% of the CFA, whichever is greater.</li> <li>✦ CZ 2, 4, 6-15: Also limited to west-facing ≤ 60 ft<sup>2</sup>.</li> </ul> <p><b>(Continued on next page)</b></p>	<p> <b>Quality Insulation Installation (QII)</b></p> <p><b>Additions ≤ 700 ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ QII is not required.</li> </ul> <p><b>Additions &gt; 700 ft<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>✦ QII is required.</li> </ul> <p><b>When an ADU is converted from existing space:</b> The following QII measures are not required:</p> <ol style="list-style-type: none"> <li>1. Insulated headers on existing door or windows</li> <li>2. Air barrier when existing air barrier is not being removed or replaced</li> </ol>



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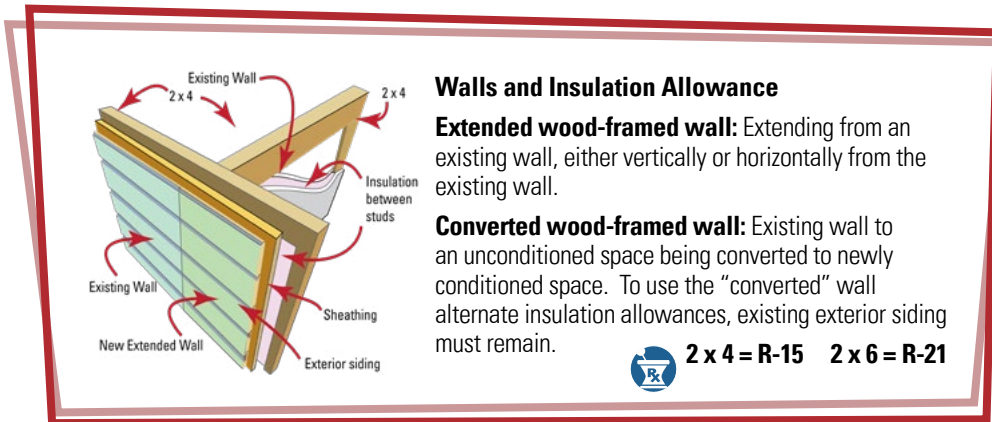
### Envelope - Addition ADU Type §150.2(a)

Roof §150.2(a)	Wall §150.2(a)	Floor §150.2(a)	Fenestration §150.2(a)1	HERS Measures §150.2(a)1
 <b>Roofing Products</b> <b>&gt; 300 ft<sup>2</sup></b> <b>Steep-sloped: CZ 10-15</b> <b>Low-sloped: CZ 13, 15</b> † Rated roofing material must be CRRC certified. † Minimum requirements differ based on roof slope.* See §150.1(c)11. <b>Steep-sloped: CZ 1-9, 16</b> <b>Low-sloped: CZ 1-12, 14, 16</b> † The above roofing material requirements do not apply.	 <b>Doors</b> † For solid door requirements, see §150.1(c)5.		<b>Additions &gt; 700 ft<sup>2</sup></b> † All CZ: Limited to total ≤ 175 ft <sup>2</sup> or 20% of the CFA, whichever is greater. † CZ 2, 4, 6-15: Also limited to west-facing ≤ 70 ft <sup>2</sup> or 5% of the CFA, whichever is greater. <b>Skylights</b> † Total fenestration area includes skylights. West-facing fenestration area includes skylights with pitch < 1:12 facing any direction, and west-facing skylights with pitch ≥ 1:12.	

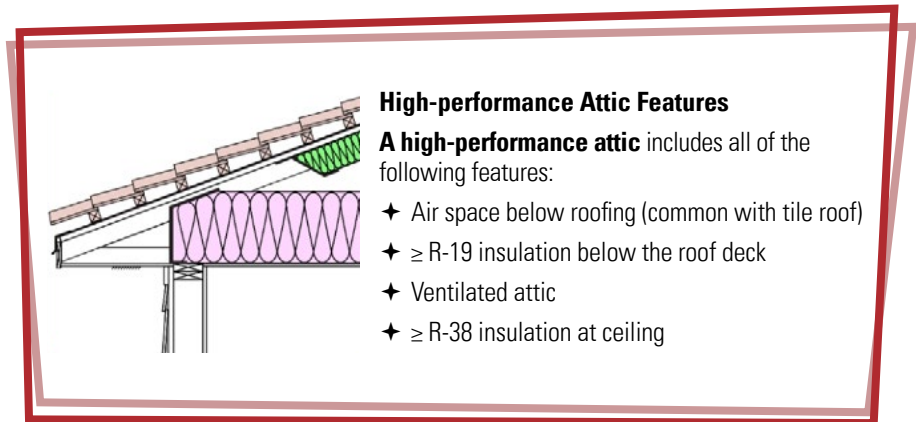
#### Notes

**ADU** = accessory dwelling unit; **CFA** = conditioned floor area; **CRRC** = Cool Roof Rating Council; **CZ** = Climate Zone; **QII** = quality insulation installation; **SHGC** = solar heat gain coefficient.  
 \* Exceptions may apply.  
 \*\* Non-wood-framed assemblies (such as metal-framed) must show compliance with the required U-factor.

**Table 5.** Addition ADU Type - Energy Code Envelope Requirements









**Figure 2.** Walls and Insulation Allowance



**Figure 3.** High-performance Attic Features



## Mechanical Systems - Addition ADU Type

Heating or Cooling Systems §150.2(a)	IAQ Systems §150.2(a)1C	Water-heating Systems §150.2(a)1D	Electric Readiness §150.0(n)
<p> <b>Extension of Existing Ducted HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>Return air from one dwelling unit shall not discharge into another dwelling unit through the heating or cooling air system per 2022 California Mechanical Code §311.4.</li> </ul> <p> <b>Added Ducted HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>This system has the same requirements as New Construction except that heat pump space heating is not required.</li> </ul> <p> <b>Added Ductless HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>This system has the same requirements as New Construction that include minimum equipment efficiency and HERS refrigerant charge testing in CZ 2, 8-15.</li> <li>Ventilation cooling is not required for Additions ≤ 1,000 ft².</li> </ul>	<p> <b>Addition of New Dwelling Unit to an Existing Home</b></p> <p><b>Whole-building IAQ System</b></p> <ul style="list-style-type: none"> <li>Required to be sized per §150.0(o)1C and meet the same requirements.</li> <li>Airflow must be verified by a HERS Rater.</li> </ul> <p><b>Local Exhaust</b></p> <ul style="list-style-type: none"> <li>Vented kitchen hoods can be used instead of kitchen local exhaust.</li> <li>For kitchen hoods, minimum airflow must be based on cooktop fuel source and minimum sone rating in §150.0(o)1G.</li> <li>Bathroom local exhaust requirements may apply.</li> </ul>	<p> <b>Water-heating System</b></p> <p><b>Extended Hot Water Piping to Serve ADU</b></p> <ul style="list-style-type: none"> <li>Must meet pipe insulation requirements.</li> </ul> <p><b>Added Water Heater</b></p> <ul style="list-style-type: none"> <li>A single 240-volt heat pump water heater is allowed, but additional requirements apply if not using a NEEA Tier 3 unit.</li> <li>A gas or propane instantaneous water heater with an input ≤ 200,000 Btuh is allowed.</li> <li>For ADU Additions ≤ 500 ft², an instantaneous electric water heater with point-of-use distribution as specified in RA4.4.5 is allowed.</li> </ul> <p><b>Recirculation Pump</b></p> <ul style="list-style-type: none"> <li>If a recirculation pump is installed, manual-ON control is required.</li> </ul>	<p> <b>Water Heating</b></p> <p><i>Each electric-ready item requires breaker space and labeling in the panel.</i></p> <ul style="list-style-type: none"> <li>Gas or propane water heaters must be installed in or adjacent to a space large enough to accommodate a heat pump water heater (HPWH) (2.5' x 2.5 x 7').</li> </ul> <p><b>HPWH Space ≤ 3 ft from Gas-fired Water Heater</b></p> <ul style="list-style-type: none"> <li>A dedicated 125-volt/20- amp outlet with a 120/240-volt 3 conductor branch circuit is required.</li> </ul> <p><b>HPWH Space &gt; 3 ft from Gas-fired Water Heater</b></p> <ul style="list-style-type: none"> <li>A 240-volt/30-amp electrical feed is required.</li> <li>Either a dedicated cold water supply must be installed, or the cold water supply must be routed through the designated HPWH location just before reaching the gas or propane water heater.</li> <li>The hot water supply pipe coming out of the gas or propane water heater must be routed through the designated HPWH location before serving any fixtures.</li> <li>Hot and cold water piping must be exposed and readily accessible at the designated HPWH location for future installation of a HPWH.</li> </ul>

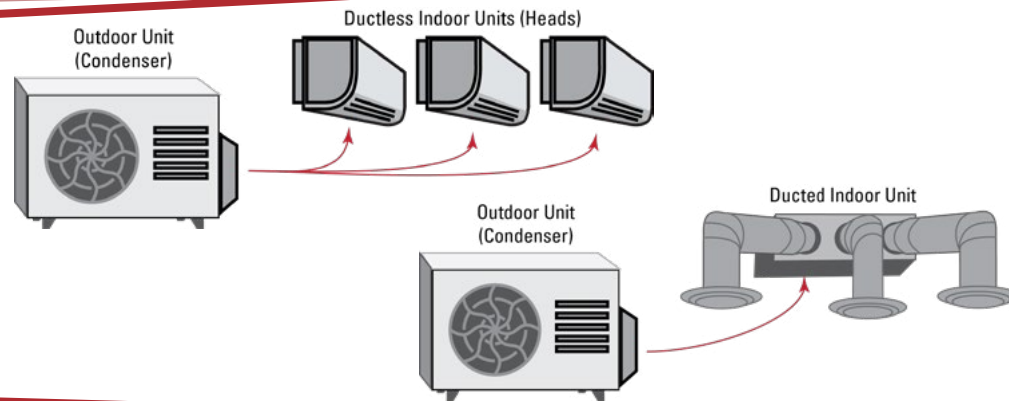
### Notes

**ADU** = accessory dwelling unit; **CZ** = Climate Zone; **HERS** = Home Energy Rating System (HERS) Program; **IAQ** = indoor air quality; **NEEA** = Northwest Energy Efficiency Alliance.

**Table 6.** Addition ADU Type – Energy Code Mechanical Requirements



## Variable Capacity Heat Pump HERS-verified Performance Credit (per [RA3.4.4.3](#))



- ✦ Location of the indoor units (heads) and ducts must be entirely within conditioned space (thermal envelope).
- ✦ Airflow to all habitable spaces must be provided either by use of a ductless indoor unit located in the room or by use of ducts connected directly to the supply air outlet of a ducted indoor unit. See the CEC Ducted Variable Heat Pump web page at [bit.ly/CEC-Ducted-VCHP](http://bit.ly/CEC-Ducted-VCHP).
- ✦ Refrigerant charge verification is required in all Climate Zones.
- ✦ Each zone > 150 ft<sup>2</sup> must be supplied by its own indoor unit (if ductless), and each indoor unit is required to have a wall-mounted thermostat, rather than a remote control.
- ✦ Ducted systems have additional requirements including certification that units are low static. See the CEC Ducted Variable Heat Pump web page at [bit.ly/CEC-Ducted-VCHP](http://bit.ly/CEC-Ducted-VCHP).

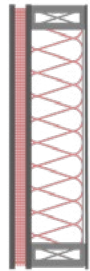
**Figure 4.** Variable Capacity Heat Pumps

## Renewable Energy Systems - Addition ADU Type

Photovoltaics	Battery Storage Systems	ESS Readiness	Solar Readiness
There are no requirements for photovoltaics and no ability to take Performance credit for new or altered systems.	There are no requirements for battery storage systems and no ability to take Performance credit for new or altered systems.	Additions to existing homes are not required to be energy storage system (ESS) ready.	Additions to existing homes are not required to be solar ready.

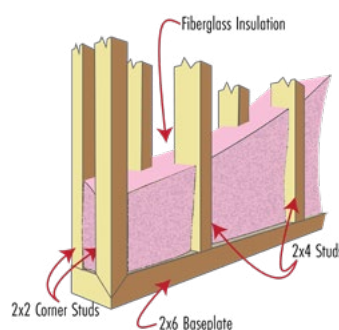
**Table 7.** Addition ADU Type – Energy Code Renewables Requirements

## Wall Assembly Examples



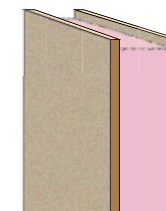
High-performance walls have a U-factor that reflects insulation within the framed cavity in addition to a layer of continuous insulation that is not interrupted by framing. This continuous insulation can be installed by placing rigid insulation outside the framing on the inside or outside face of the wall.

**Figure 5.** High-performance walls



Continuous insulation also can be installed by using a staggered stud assembly in which the continuous insulation is within the wall.

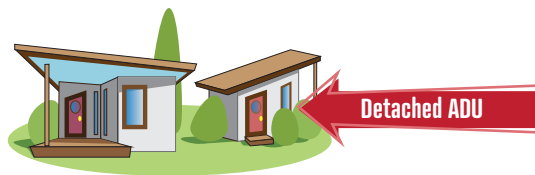
**Figure 6.** Staggered Stud Wall with Continuous Insulation



Another option is to look at alternative wall assemblies such as structurally insulated walls panels (SIPs), insulated concrete forms (ICF) or dual-panel hollow wall (DPH per CEC-400-2020-009) that have little to no framing. See the CEC BamCore Prime Wall Exceptional Method Compliance Option web page at [bit.ly/CEC-BamCore-PrimeWall-Method](http://bit.ly/CEC-BamCore-PrimeWall-Method).

**Figure 7.** Structurally Insulated Wall Panels

# New Construction ADU Type



Mandatory

Prescriptive

Performance

## Envelope - New Construction ADU Type

Roof §§150.0(a), 150.1(c)1A, 150.1(c)2	Wall §150.1(c)1B	Floor §§150.1(c)1C-D	Fenestration §§150.1(c)3-4	HERS Measures §150.1(c)1E
<p><b>Roof and Ceiling Insulation</b></p> <p> <b>Vented Attic Roof</b></p> <ul style="list-style-type: none"> <li>High-performance attic measures are required per Option B.</li> <li>CZ 1-2: Require <math>\geq</math> R-38 at ceiling and radiant barrier.</li> <li>CZ 3, 5-7: Require <math>\geq</math> R-30 at ceiling and radiant barrier.</li> <li>CZ 4, 8-16: Require <math>\geq</math> R-38 at ceiling and <math>\geq</math> R-19 below roof deck.</li> </ul> <p> <b>Vented Attic Roof</b></p> <ul style="list-style-type: none"> <li>CZ 4, 8-16: The roof deck U-factor must be <math>\leq</math> 0.184 if the HVAC system is ducted and has ducts outside of conditioned space.</li> </ul> <p> <b>Unvented Attic or Rafter Roof</b></p> <ul style="list-style-type: none"> <li>Use the Performance Approach.</li> </ul> <p> <b>Roofing Products</b></p> <p><b>Steep-sloped: CZ 10-15 Low-sloped: CZ 13, 15</b></p> <ul style="list-style-type: none"> <li>Rated roofing material must be CRRC certified.</li> <li>Minimum requirements differ based on roof slope.* See §150.1(c)11.</li> </ul> <p><b>Steep-sloped: CZ 1-9, 16 Low-sloped: CZ 1-12, 14, 16</b></p> <ul style="list-style-type: none"> <li>The above roofing material requirements do not apply.</li> </ul>	<p> <b>Insulation</b></p> <p><b>Framed: New</b></p> <ul style="list-style-type: none"> <li>CZ 1-5, 8-16: Require U-factor <math>\leq</math> 0.048 for all framed walls. Example: R-21 in 2x6 wood framing + R-5 continuous per <a href="#">JA4.3.1-D7</a>. See <a href="#">JA4.3.4</a> for metal-framed wall examples.</li> <li>CZ 6-7: Require U-factor <math>\leq</math> 0.065 for all framed walls. Example: R-13 in 2x4 wood framing + R-5 continuous per <a href="#">JA4.3.1-D3</a>. See <a href="#">JA4.3.4</a> for metal-framed wall examples.</li> </ul> <p><b>Masonry</b></p> <ul style="list-style-type: none"> <li>Insulation is required with the R-value depending on CZ, location of wall and insulation placement (per <a href="#">Table 150.1-A</a>).</li> </ul> <p><b>All Other Wall Types</b></p> <ul style="list-style-type: none"> <li>See <a href="#">Table 150.1-A</a> or use the Performance Approach.</li> </ul> <p> <b>Doors</b></p> <ul style="list-style-type: none"> <li>For solid door requirements, see <a href="#">§150.1(c)5</a>.</li> </ul>	<p><b>Insulation</b></p> <p><b>Raised</b></p> <p> <b>Framed</b></p> <ul style="list-style-type: none"> <li>Require <math>\geq</math> R-19 in wood framing or equivalent U-factor <math>\leq</math> 0.037.**</li> </ul> <p> <b>Raised Mass</b></p> <ul style="list-style-type: none"> <li>CZ 1-2, 11, 13, 16: Require <math>\geq</math> R-8.</li> <li>CZ 12 and 15: Require <math>\geq</math> R-4.</li> </ul> <p><b>Slab on Grade</b></p> <p> <b>All CZs</b></p> <ul style="list-style-type: none"> <li>Heated slab floors must meet perimeter insulation requirements of <a href="#">§150.0(f)</a>.</li> <li>The perimeter insulation requirements do not apply to unheated slab floors.</li> </ul> <p> <b>CZ 16</b></p> <ul style="list-style-type: none"> <li>Require R-7 or equivalent U-factor <math>\leq</math> 0.58.</li> </ul>	<p> <b>All New Construction Type ADUs</b></p> <p><b>U-factor</b></p> <ul style="list-style-type: none"> <li>Require <math>\leq</math> 0.30.</li> </ul> <p><b>SHGC</b></p> <ul style="list-style-type: none"> <li>CZ 2, 4, 6-15: Require <math>\leq</math> 0.23.</li> </ul> <p><b>Area Limits</b></p> <ul style="list-style-type: none"> <li>All CZ: Limited to total <math>\leq</math> 20% of the CFA.</li> <li>CZ 2, 4, 6-15: Also limited to west-facing <math>\leq</math> 5% of the CFA.</li> </ul> <p><b>Skylights</b></p> <ul style="list-style-type: none"> <li>Total fenestration area includes skylights. West-facing fenestration area includes skylights with pitch <math>&lt;</math> 1:12 facing any direction, and west-facing skylights with pitch <math>\geq</math> 1:12.</li> </ul>	<p> <b>Quality Insulation Installation (QII)</b></p> <p>QII requirements apply to newly constructed ADUs of any size.</p>











### Notes

ADU = accessory dwelling unit; CFA = conditioned floor area; CRRC = Cool Roof Rating Council; CZ = Climate Zone; QII = quality insulation installation; SHGC = solar heat gain coefficient.  
 \* Exceptions may apply.  
 \*\* Non-wood-framed assemblies (such as metal-framed) must show compliance with the required U-factor.

**Table 8.** New Construction ADU Type - Energy Code Envelope Requirements



## Mechanical Systems - New Construction ADU Type

Heating or Cooling Systems §§150.0(h), (i), (m); 150.1(c)6, 7, 9, 12, 13	IAQ Systems §§150.0(o), 150.1(c)10	Water-heating Systems §§150.0(n), 150.1(c)8	Electric Readiness §§150.0(n), 150.0(t)-(v)
<p> <b>Ducted HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>Prescriptive: In CZ 3, 4, 13-14, heat pump space heating is required. See <a href="#">Table 150.1-A</a>.</li> <li>Mandatory: All HERS measures are required such as duct testing, fan efficacy and fan watt draw.</li> <li>Prescriptive: HERS refrigerant charge testing is required in CZ 2, 8-15. See <a href="#">Table 150.1-A</a>.</li> </ul> <p> <b>Ductless HVAC System for ADU</b></p> <ul style="list-style-type: none"> <li>Mandatory: Minimum equipment efficiency is required.</li> <li>Prescriptive: HERS refrigerant charge testing is required in CZ 2, 8-15.</li> </ul> <p> <b>Whole-building Ventilation Cooling (Whole House Fan)</b></p> <ul style="list-style-type: none"> <li>In CZ 8-14 with airflow meeting <math>\geq 1.5</math> CFM/ft<sup>2</sup> of CFA via HVI-certified system. Attic ventilation requirements are based on airflow, unless directly vented to the outside. Only required for Addition Type ADUs &gt; 1,000 ft<sup>2</sup>.</li> </ul>	<p> <b>Addition of New Dwelling to an Existing Home</b></p> <p><b>Whole-building IAQ System</b></p> <ul style="list-style-type: none"> <li>Required to be sized per <a href="#">§150.0(o)1C and meet the same requirements</a>.</li> <li>Airflow must be verified by a HERS Rater.</li> </ul> <p><b>Local Exhaust</b></p> <ul style="list-style-type: none"> <li>Vented kitchen hoods can be used instead of kitchen local exhaust.</li> <li>For kitchen hoods, minimum airflow must be based on cooktop fuel source and minimum same rating in <a href="#">§150.0(o)1G</a>.</li> <li>Bathroom local exhaust requirements apply.</li> </ul>	<p> <b>Hot Water Piping</b></p> <ul style="list-style-type: none"> <li>Required to meet pipe insulation requirements.</li> </ul> <p> <b>Water Heater Options</b></p> <ul style="list-style-type: none"> <li>One of the following water heaters is required in New Construction: <ul style="list-style-type: none"> <li>A 240-volt heat pump water heater (Additional requirements apply if not using a NEEA Tier 3 unit.)</li> <li>A 120-volt heat pump water heater when serving an ADU with <math>\leq 1</math> bedrooms</li> <li>For a new dwelling unit <math>\leq 500</math> ft<sup>2</sup>, an instantaneous electric water heater with point-of-use distribution as specified in <a href="#">RA4.4.5</a> is allowed</li> <li>Electric resistance solar system with solar fraction <math>\geq 70\%</math></li> </ul> </li> </ul> <p>In CZ 3, 4, 13-14, a gas or propane instantaneous water heater with an input <math>\leq 200,000</math> Btuh may be used when a heat pump space heater is installed.</p> <p><b>Recirculation Pump</b></p> <ul style="list-style-type: none"> <li>If a recirculation pump is installed, manual-ON control is required.</li> </ul>	<p><i>Each electric-ready item requires breaker space and labeling in the panel.</i></p> <p> <b>Space Heating (Furnace)</b></p> <ul style="list-style-type: none"> <li>Requires a 240-volt/30-amp electrical feed to the furnace for a future heat pump.</li> </ul> <p> <b>Cooktop</b></p> <ul style="list-style-type: none"> <li>Requires a 240-volt/50-amp feed for a future cooktop.</li> </ul> <p> <b>Dryers or Gas Hookups</b></p> <ul style="list-style-type: none"> <li>Requires 240-volt/30-amp feed for future installation of an electric dryer if the unit has a gas line for a dryer.</li> </ul> <p> <b>Water Heating</b></p> <ul style="list-style-type: none"> <li>Gas or propane water heaters must be installed in or adjacent to a space large enough to accommodate a heat pump water heater (HPWH) (2.5' x 2.5' x 7').</li> </ul> <p><b>HPWH Space <math>\leq 3</math> ft from Gas-fired Water Heater</b></p> <ul style="list-style-type: none"> <li>A dedicated 125-volt/20-amp outlet with 120/240-volt 3 conductor branch circuit is required.</li> </ul> <p><b>HPWH Space &gt; 3 ft from Gas-fired Water Heater</b></p> <ul style="list-style-type: none"> <li>A 240-volt/30-amp electrical feed is required.</li> <li>Either a dedicated cold water supply must be installed, or the cold water supply must be routed through the designated HPWH location just before reaching the gas or propane water heater.</li> <li>The hot water supply pipe coming out of the gas or propane water heater must be routed through the designated HPWH location before serving any fixtures.</li> <li>Hot and cold water piping must be exposed and readily accessible at the designated HPWH location for future installation of a HPWH.</li> </ul>

### Notes

**ADU** = accessory dwelling unit; **CRRC** = Cool Roof Rating Council; **CZ** = Climate Zone; **HERS** = Home Energy Rating System (HERS) Program; **HPWH** = heat pump water heater; **IAQ** = indoor air quality; **NEEA** = Northwest Energy Efficiency Alliance.

**Table 9.** New Construction ADU Type - Energy Code Mechanical Requirements





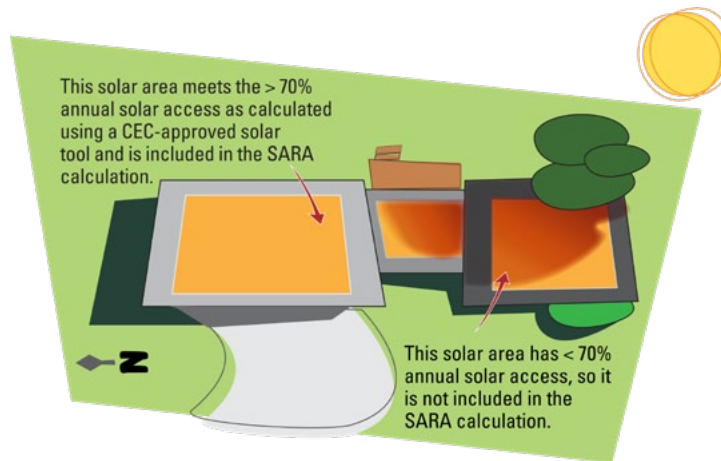
## Renewable Energy Systems - New Construction ADU Type

### Photovoltaics §150.1(c)14

The required PV kW can be installed anywhere on the property, including being added to the system serving the main.

A CEC-approved community solar program may also be used.

“Green” utility programs are NOT a means to satisfy the PV kW requirements.



**Figure 8.** Solar Access Roof Area (SARA)

The **minimum required PV size** for compliance is the lesser of the PV requirement as calculated in [Equation 150.1-C](#) (Prescriptive Approach)/CF1R-PERF (Performance Approach) and the maximum installable PV in the SARA.

Note that SARA-limited projects can input maximum installable PV in the Performance Approach using Exception 5.

1. **SARA includes** the area of the building’s roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2, §1511.2.

2. **SARA does NOT include:**

- ✦ **Any roof area < 70% annual solar access** using CEC-approved solar assessment tools. See the CEC Solar Assessment Tools web page at [bit.ly/CEC-Solar-Assessment-Tools](http://bit.ly/CEC-Solar-Assessment-Tools).
- ✦ **Steep-sloped roofs: Shading from existing permanent natural or manmade obstructions that are external to the dwelling**, including but not limited to trees, hills and adjacent structures, are considered.
- ✦ **Low-sloped roofs: Shading from all obstructions**, including those that are external to the dwelling unit, and obstructions that are part of the building design and elevation features are considered.
- ✦ **Occupied roof areas** as specified by California Building Code §503.1.4.
- ✦ **Roof area that is otherwise not available** due to compliance with other building code requirements if confirmed by the CEC.

#### PV Exceptions

- ✦ When the required PV system size is < 1.8 kW<sub>dc</sub>
- ✦ When the building has an enforcement authority-approved roof design and the enforcement authority determines it is not possible for the PV system to meet ASCE 7-16, Chapter 7, Snow Loads

### Solar Readiness §110.10

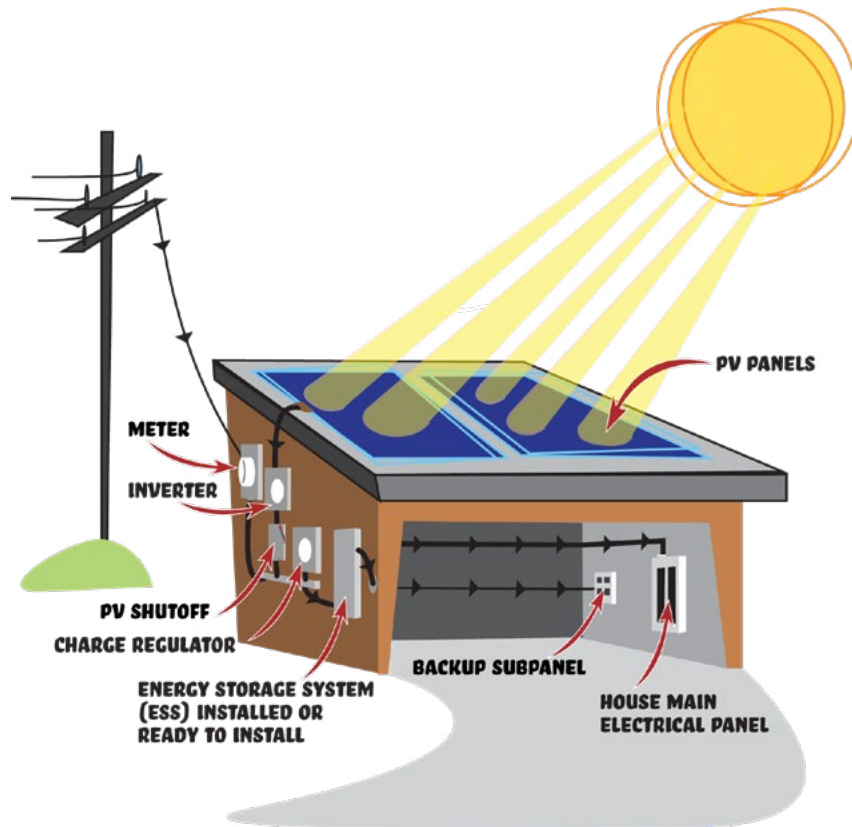
**Solar readiness** is required when PV is not being installed via use of an exception and is associated with a new subdivision of ≥ 10 homes. Solar-ready requirements do not apply to newly constructed ADUs built on an existing lot if the project is not required to install a PV system.

Continued on next page ➡



(Continued)

## Renewable Energy Systems - New Construction ADU Type



**Figure 9.** Battery Storage Systems

A Performance Approach credit is allowed if the battery system minimum capacity is  $\geq 5.0$  kWh and the battery system gives flexibility in meeting building efficiency measures. If PV flexibility is desired, battery storage must be  $\geq 7.5$  kWh.


If no battery storage is installed, then at least either of the following must be provided:

- ✦ Interconnection equipment with a minimum backed up capacity of 60 amps
- ✦ A dedicated raceway from the main service to a subpanel that supplies the branch circuits

A minimum of four branch circuits must be identified that feed the following:

- ✦ Refrigerator
- ✦ One lighting circuit near the primary egress
- ✦ A sleeping room receptacle outlet
- ✦ One other choice

 Battery Storage Systems Meeting JA12 Qualifications

 Energy Storage System Readiness §150.0(s) (when battery storage systems not installed)

The main panel must have a minimum busbar rating of 225 amps with sufficient space reserved to allow future installation of a system isolation equipment or transfer switch within 3 ft of the main panelboard.

Raceways must be installed between the panelboard and the system isolation equipment or transfer switch location to allow the connection of backup power source.

**ESS** = energy storage system; **PV** = photovoltaic; **SARA** = solar access roof area.

**Table 10.** New Construction ADU Type - Energy Code Renewable Requirements

# Compliance Forms

Single-family Energy Code Compliance Forms for Accessory Dwelling Units				
Requirement Type	Certificates of Completion	Certificates of Installation	Certificates of Verification	
	Provided at Plan Check <i>Kept Current During Construction</i>	Provided On Site During Construction <i>Supporting Certificate of Compliance Building Features (or better)</i>		
<b>Performance Method</b>	CF1R-PRF-01-E	See below	See below	
<b>Prescriptive Method</b>				
New Construction ADU	CF1R-NCB-01-E			
Addition ADU - HERS	CF1R-ADD-01-E			
Alteration ADU - HERS	CF1R-ALT-01-E			
<b>Envelope</b>			CF3R-ENV-##-H	
Alteration ADU - Non-HERS Related	CF1R-ALT-05-E			
HERS Related	<i>Included in applicable CF1R listed above</i>	CF2R-ENV-##-H		
Non-HERS Related		CF2R-ENV-##-E		
<b>Mechanical Systems</b>				CF3R-MCH-##-H
HERS Related		CF2R-MCH-##-H		
Non-HERS Related		CF2R-MCH-##-E		
<b>Plumbing</b>				CF3R-PLB-##-H
Water Heating - HERS Related			CF2R-PLB-##-H	
Water Heating - Non-HERS Related			CF2R-PLB-##-E	
Solar Thermal			CF2R-STH-##-E	
Pool and Spa Heating			CF2R-PLB-03-E	
<b>Lighting</b>			CF2R-LTG-##-E	N/A
<b>Solar PV and Battery Storage Systems</b>			CF2R-PVB-##-E	
<b>Electric Readiness</b>			CF2R-ELC-01-E	

Forms must be registered with a HERS Provider when HERS measures are required. The CF1R-ALT-01-E form may need to be registered via a HERS provider. Other CF1R forms require registration via a HERS provider.

**HERS** = Home Energy Rating System; **PV** = photovoltaic.

**Table 11.** Single-family Energy Code Compliance Forms for Accessory Dwelling Units



## \* HERS Providers and Raters

To find a HERS Rater, contact one of the HERS providers shown below. Each provider is approved to perform specific services.

**Check the CEC website to see if new providers have been approved: [bit.ly/CEC-HERS-Providers](https://bit.ly/CEC-HERS-Providers).**

### CalCERTS

[www.calcerts.com/](http://www.calcerts.com/)

#### Approved for field verification on:

- ◇ Newly constructed buildings
- ◇ Additions
- ◇ Alterations of residential and nonresidential buildings
- ◇ California whole-house home energy ratings
- ◇ HERS building performance contractors

### CHEERS

[www.cheers.org/](http://www.cheers.org/)

#### Approved for field verification on:

- ◇ Newly constructed buildings
- ◇ Additions
- ◇ Alterations of residential and nonresidential buildings



## For More Information

### CALIFORNIA ENERGY COMMISSION

[www.energy.ca.gov](http://www.energy.ca.gov)

Learn more about the California Energy Commission (CEC) and its programs on its website.

#### Online Resource Center

[bit.ly/CEC-ORC](https://bit.ly/CEC-ORC)

Use these online resources developed for building and enforcement communities to learn more about the Energy Code.

#### 2022 Single-family Residential Compliance Manual

[bit.ly/single-family-compliance-manual](https://bit.ly/single-family-compliance-manual)

Read this comprehensive explanation of the Energy Code requirements for single-family buildings.

#### Energy Code Hotline

Call: 1-800-772-3300 (Free)

Email: [Title24@energy.ca.gov](mailto:Title24@energy.ca.gov)

## ADDITIONAL RESOURCES

#### California Department of Housing and Community Development (HCD)

Download the *Accessory Dwelling Unit Handbook* and other useful information on the HCD website at

[hcd.ca.gov/policy-and-research/accessory-dwelling-units](http://hcd.ca.gov/policy-and-research/accessory-dwelling-units)



[www.energycodeace.com](http://www.energycodeace.com)

Stop by this online “one-stop-shop” for no-cost tools, training and resources designed to help you comply with California’s Title 24, Part 6 and Title 20.



[www.energycodeace.com/tools](http://www.energycodeace.com/tools)

Explore this suite of interactive tools to understand the compliance process, required forms, installation techniques and energy efficiency regulations in California.

#### Reference Ace

[www.energycodeace.com/content/reference-ace-2022-tool](http://www.energycodeace.com/content/reference-ace-2022-tool)

Navigate the Title 24, Part 6 Energy Code using an index, keyword search and hyperlinked text.

#### Q&Ace

[www.energycodeace.com/QAndAce](http://www.energycodeace.com/QAndAce)

Search our online knowledge base or submit your question to Energy Code Ace experts.



[www.energycodeace.com/training](http://www.energycodeace.com/training)

On-demand, live in-person and online training alternatives are tailored to a variety of industry professionals and address key measures.

Of Special Interest:

- ◇ 2022 Title 24, Part 6 Essentials – Residential Standards: What’s New

[bit.ly/ECA-training-2022-res-whats-new](https://bit.ly/ECA-training-2022-res-whats-new)



[www.energycodeace.com/resources](http://www.energycodeace.com/resources)

Downloadable materials provide practical and concise guidance on how and when to comply with California’s building and appliance energy efficiency standards.

Of Special Interest:

#### Fact Sheets for Buildings

[bit.ly/building-fact-sheets](https://bit.ly/building-fact-sheets)

- ◇ Single-family Envelope

**Create an account on the Energy Code Ace site and select an industry role for your profile in order to receive messages about all our offerings!**

