



# ENERGY STAR Multifamily New Construction California Program Requirements, Version 1.2 (Rev. 04)

## Eligibility Requirements

The following multifamily building types are eligible to participate in the ENERGY STAR Multifamily New Construction (MFNC) program:

- Any multifamily building with dwelling or sleeping units that is NOT a detached dwelling (e.g., not a single-family home or a duplex)<sup>1</sup>; OR
- Any mixed-use buildings with dwelling or sleeping units, where the dwelling units and common space exceed 50% of the building square footage. Parking garage square footage is excluded from this calculation<sup>2</sup>; OR
- Townhouses.<sup>3</sup>

Townhouses are also eligible to participate in the ENERGY STAR Single-Family New Homes program, which is a certification program for dwellings (e.g., single-family homes, duplexes) and townhouses.<sup>1</sup> For more information, visit: [www.energystar.gov/newhomesrequirements](http://www.energystar.gov/newhomesrequirements). In addition, multifamily buildings with permit dates prior to July 1, 2021, may be eligible to participate in the ENERGY STAR Single-Family New Homes or Multifamily High Rise programs.<sup>4</sup> For more information, visit: [www.energystar.gov/mfhr/eligibility](http://www.energystar.gov/mfhr/eligibility).

To determine the applicable MFNC program requirements, including the minimum Version and Revision, to which a building is eligible to be certified, visit [www.energystar.gov/MFNCVersions](http://www.energystar.gov/MFNCVersions).

While primarily intended for new construction, existing buildings (e.g., undergoing a gut rehabilitation) are also eligible to participate in the ENERGY STAR Multifamily New Construction program, with guidance available at: [www.energystar.gov/GutRehabGuidance](http://www.energystar.gov/GutRehabGuidance).

Note that compliance with these requirements is not intended to imply compliance with all local code requirements that may be applicable to the building to be built.<sup>5</sup>

## Partnership, Training, and Credentialing Requirements

The following requirements must be met prior to certifying multifamily buildings:

- The Builder or Developer for the building is required to sign an ENERGY STAR Partnership Agreement and complete the online “Builder / Developer Orientation”, which can be found at [www.energystar.gov/homesPA](http://www.energystar.gov/homesPA).
- FT Agents must meet one of the following:
  - The HVAC installing contractor AND credentialed by an EPA-recognized HVAC Quality Installation Training and Oversight Organization (H-QUITO). An explanation of this process can be found at [www.energystar.gov/eshvac](http://www.energystar.gov/eshvac); OR
  - Not the HVAC installing contractor, AND
    - Signed up online in EPA’s online database as an FT Agent and watched the online FT Agent orientation, which can be found at [www.energystar.gov/mftraining](http://www.energystar.gov/mftraining); AND
    - Holds one of the credentials listed online here: [www.energystar.gov/ftas](http://www.energystar.gov/ftas) or is a representative of the Original Equipment Manufacturer (OEM).
- Energy Rating Companies (e.g., rater companies and Providers<sup>6</sup>) are required to sign an ENERGY STAR Partnership Agreement, which can be found at [www.energystar.gov/homesPA](http://www.energystar.gov/homesPA).
- Raters<sup>7</sup> are required to complete EPA-recognized training, which can be found at [www.energystar.gov/mftraining](http://www.energystar.gov/mftraining), and be credentialed by a Home Certification Organization (HCO) or meet the credential requirements of a Multifamily Review Organization (MRO) prior to completing inspections. Learn more at [www.energystar.gov/hco](http://www.energystar.gov/hco) and at [www.energystar.gov/mro](http://www.energystar.gov/mro).

## ENERGY STAR Certification Process<sup>8</sup>

1. The certification process provides flexibility to select a custom combination of measures for each building that meets one of two performance targets, as assessed through energy modeling. Select one of the two following performance targets:
  - a. For multifamily buildings that are less than 4 stories, where dwelling units are individually modeled, the performance target for each unit is defined as either a Compliance Total with  $\geq 10\%$  savings above the Compliance Total of the Standard Design corresponding to the unit or a Delta Energy Design Rating (Delta EDR) of  $\geq 3$  points, as determined by a CEC-approved software program, in accordance with 2016 Building Energy Efficiency Standards.<sup>9</sup> On-site power generation may not be used to meet either of these above-code performance targets and must be demonstrated using the EDR score or Compliance Total that excludes photovoltaics. For buildings in California that are permitted under the 2013 Building Energy Efficiency Standards, the performance target is 15%.
  - b. For all other multifamily buildings, where the whole building is modeled, the performance target is defined as a Compliance Total with  $\geq 10\%$  savings above the Compliance Total of the Standard Design corresponding to the building, as determined by a CEC-approved software program, in accordance with 2016 Building Energy Efficiency Standards.<sup>9</sup> On-site power generation may not be used to meet the above-code performance target, though it is permitted to be used to satisfy code. For buildings in California that are permitted under the 2013 Building Energy Efficiency Standards, the performance target is 15%.

All ENERGY STAR certifications are subject to the oversight of a Multifamily Oversight Organization which include Home Certification Organizations<sup>10</sup> (HCOs) or Multifamily Review Organizations (MROs). Projects following 1a must be overseen by an HCO and projects following 1b must be overseen by an MRO. MRO information can be found at [www.energystar.gov/mro](http://www.energystar.gov/mro).

2. Based on the path chosen, select the efficiency measures for the building:
  - a. Dwelling Unit modeling (Step 1a): Configure the preferred set of efficiency measures for the unit to be certified and verify that the resulting performance meets or exceeds the applicable performance target, as determined in Step 1a. Meet the requirements specified in the National Rater Design Review and Field Checklists, which include meeting the minimum requirements set in Exhibit 1 for common spaces. Where the Checklists list different requirements for “ERI”, “ASHRAE”, or “Prescriptive”, select the requirements associated with “ERI”. Alternatively, when the common spaces are modeled in addition to the dwelling units and meet



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the performance targets in Step 1, the building qualifies for Step 2b, and the common spaces can instead meet the prescriptive requirements specified in the National Rater Design Review and Field Checklists associated with “ASHRAE”.

- b. Whole-building modeling (Step 1b): Configure the preferred set of efficiency measures for the building to be certified and verify that the resulting performance meets or exceeds the applicable performance target, as determined in Step 1b. Meet the prescriptive requirements specified in the National Rater Design Review and Field Checklists. Where the Checklists list different requirements for “ERI”, “ASHRAE”, or “Prescriptive”, select the requirements associated with “ASHRAE”. Whole-building modeling includes multifamily buildings that are less than 4 stories, when the common spaces are modeled in addition to the dwelling units and meet the performance targets in Step 1.

Note that, regardless of the path chosen or the measures selected, the Mandatory Requirements for All Certified Multifamily Buildings in Exhibit 2 are also required and impose certain constraints on the efficiency measures selected (e.g., insulation levels, insulation installation quality, window performance, duct leakage).

3. Upon completion of design, for whole-building modeling projects, specific documentation may be submitted to an MRO for their review and approval as described in Exhibit 3. EPA strongly recommends submitting this documentation before construction; however, the Rater may instead choose to submit the design documentation at final certification. MROs may choose to implement alternative design review requirements.
4. Upon completion of design, multifamily buildings may be eligible for the Designed to Earn the ENERGY STAR designation. To earn this optional additional designation, follow the guidance available at [www.energystar.gov/mfdees](http://www.energystar.gov/mfdees).
5. Construct the building using the measures selected in Step 2 and the Mandatory Requirements for All Certified Multifamily Buildings, Exhibit 2.
6. Using a Rater, verify that all requirements have been met in accordance with the Mandatory Requirements for All Certified Multifamily Buildings and with Data Input requirements and with the inspection procedures for minimum rated features in ANSI / RESNET / ICC 301, Appendix B. This will require a minimum of two inspections: one at pre-drywall and the other at final. For Townhouses, all items shall be verified for each certified home and sampling protocols shall not be used. For other multifamily building types, sampling protocols are permitted to be used within the limitations defined in Fn. 7. <sup>7</sup> For modular multifamily buildings, a Rater must verify any requirement in the plant not able to be verified on-site because a feature will be concealed prior to shipment. <sup>11</sup>

The Rater must review all items on the National Rater checklists for the whole building to verify that each inspection checklist item has been met within program-defined tolerances.

In the event that a Rater determines that a program requirement has not been met, the building cannot earn the ENERGY STAR until the item is corrected. If correction of the item is not possible, the building cannot earn the ENERGY STAR and individual units in the multifamily building also cannot be certified. In the event that an item on a National Rater checklist cannot be inspected by the Rater, the building also cannot earn the ENERGY STAR. The only exceptions to this rule are in the Thermal Enclosure System Section of the National Rater Field Checklist, where the builder may assume responsibility for verifying a maximum of eight items and the sections of the National Rater Field Checklist where a Licensed Professional may assume responsibility for verifying the specified items. A Licensed Professional must be a Professional Engineer or Registered Architect in good standing and possess a current license. This option shall only be used at the discretion of the Rater. When exercised, the builder's and/or Licensed Professionals' responsibility will be formally acknowledged by the builder and/or Licensed Professional signing the checklist for the item(s) that they verified.

In the event that a Rater is not able to determine whether a program requirement has been met (e.g., an alternative method of meeting a checklist requirement has been proposed), then the Rater shall consult their Provider or MRO. If the Provider or MRO also cannot make this determination, then the Rater, Provider, or MRO shall report the issue to EPA prior to building completion at: [energystarhomes@energystar.gov](mailto:energystarhomes@energystar.gov) and will receive an initial response within 5 business days. If EPA believes the current program requirements are sufficiently clear to determine whether the item in question has been met, then this guidance will be provided to the partner and enforced beginning with the building in question. In contrast, if EPA believes the program requirements require revisions to make the intent clear, then this guidance will be provided to the partner but only enforced for buildings permitted after a specified transition period after the release of the revised program requirements, typically 60 days in length.

This will allow EPA to make formal policy decisions as partner questions arise and to disseminate these policy decisions through the [Policy Record](#) and the periodic release of revised program documents to ensure consistent application of the program requirements.

7. Once verification on all units and common spaces is complete, submit the whole building to the HCO or MRO for final certification (see alternative below). The Rater is required to keep electronic or hard copies of the completed and signed National Rater checklists. In addition, for buildings using Track A, the Rater is required to keep for each dwelling unit and each graded common space an HVAC design report compliant with ANSI / RESNET / ACCA / ICC 310. The Rater must also keep a National HVAC Design Supplement to Std. 310 for Dwellings & Units for each dwelling unit, and, where applicable, the National HVAC Design Supplement to Std. 310 for Common Spaces & Central Systems. For buildings using Track B, the Rater is required to keep the National HVAC Design Report. Finally, when the FT Agent is not a HVAC Credentialed Contractor, National HVAC Functional Testing Checklists for all systems must be kept. Additionally, the following steps are required:
  - a. Dwelling Unit modeling: submit the building to the HCO for final certification and follow the HCO's certification and oversight procedures (e.g., quality assurance, recordkeeping, and reporting)

Generally, buildings must be submitted for certification after verification on all units and common spaces is complete. Alternatively, at the discretion of the Provider, individual dwelling units may be conditionally certified prior to the building completion if the following process is observed:
  - i. The Provider must generate a [Conditional ENERGY STAR Certification Disclosure letter](#) to be included with the label and certificate for the homebuyer of each conditionally certified unit.



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- ii. Once verification on all dwelling units and common spaces is complete, and the whole building is certified, the Provider must generate an [ENERGY STAR Certification Confirmation letter](#) for the builder to deliver to the applicable homebuyers.
- In the event that any dwelling unit or common space in the building is ultimately unable to be verified, the building will not be able to earn certification; the Provider must decertify any conditionally certified units; and the builder must notify the applicable homebuyers.
- b. Whole-building modeling: specific documentation must be submitted based on as-built conditions to an MRO for their review and approval, as described in Exhibit 3.

### Exhibit 1: ENERGY STAR Multifamily Reference Design for Common Spaces

When common spaces are not modeled, some of the following features may be required, as specified in the National Rater Design Review and Field Checklists.

#### ENERGY STAR Multifamily Reference Design for Common Spaces, California Version 1.2

Hot Climates (2009 IECC Zones 1,2,3) <sup>12</sup>				Mixed and Cold Climates (2009 IECC Zones 4,5,6,7,8) <sup>12</sup>					
<b>Cooling Equipment:</b> If not listed here, see Rater Field Checklist Exhibit X. <sup>13</sup>									
<ul style="list-style-type: none"><li>Cooling equipment meets the applicable efficiency levels below:</li></ul>									
<ul style="list-style-type: none"><li>15 SEER AC,</li><li>Heat pump (See Heating Equipment)</li></ul>				<ul style="list-style-type: none"><li>13 SEER AC,</li><li>Heat pump (See Heating Equipment)</li></ul>					
<b>Heating Equipment:</b> If not listed here, see Rater Field Checklist Exhibit X. <sup>13</sup>									
<ul style="list-style-type: none"><li>Heating equipment meets the applicable efficiency levels below, dependent on fuel and system type:</li></ul>									
<ul style="list-style-type: none"><li>78 AFUE/80% E<sub>t</sub> AFUE gas furnace,</li><li>80 AFUE oil furnace,</li><li>80 AFUE boiler,</li><li>8.2 HSPF / 15 SEER air-source heat pump with electric or dual-fuel backup.</li></ul>				<ul style="list-style-type: none"><li>78 AFUE/80% E<sub>t</sub> gas furnace,</li><li>85 AFUE ENERGY STAR oil furnace,</li><li>90 AFUE ENERGY STAR gas boiler,</li><li>86 AFUE oil boiler,</li><li>Heat pump, with efficiency as follows:<ul style="list-style-type: none"><li>CZ 4: 8.5 HSPF / 15 SEER air-source w/ electric or dual-fuel backup,</li><li>CZ 5: 9.25 HSPF / 15 SEER air-source w/ electric or dual-fuel backup,</li><li>CZ 6: 9.5 HSPF / 15 SEER air-source w/ electric or dual-fuel backup,</li><li>CZ 7-8: 3.6 COP / 17.1 EER ground-source w/ electric or dual-fuel backup.</li></ul></li></ul>					
<b>Envelope &amp; Windows</b>									
<ul style="list-style-type: none"><li>Insulation must meet Quality Insulation Installation (QII) per California's Building Energy Efficiency Standards levels and meet Item 3.2 of the National Rater Design Review Checklist</li><li>Fenestration must meet or exceed 2015 IgCC levels (Commercial fenestration U-Factor requirements).</li></ul>									
<b>Climate Zone:</b>		<b>CZ 1</b>	<b>CZ 2</b>	<b>CZ 3</b>	<b>CZ 4</b>	<b>CZ 4 C &amp; 5</b>	<b>CZ 6</b>	<b>CZ 7</b>	<b>CZ 8</b>
<b>Fixed Window U-Factor:</b>		0.48	0.48	0.44	0.36	0.36	0.34	0.28	0.28
<b>Operable Window U-Factor:</b>		0.62	0.62	0.57	0.43	0.43	0.41	0.35	0.35
<b>Glazed Entrance Door U-Factor:</b>		1.05	0.79	0.73	0.73	0.73	0.73	0.73	0.73
<b>SHGC</b>		0.25	0.25	0.25	0.40	0.40	0.40	any	any
<b>Water Heater</b>									
<ul style="list-style-type: none"><li>SHW equipment meets the following efficiency levels as applicable:</li></ul>									
Gas:	≤55 Gal = 0.67 EF (0.64 UEF, medium; 0.68 UEF, high-draw)				>55 Gal = 0.77 EF (0.78 UEF, medium; 0.80 UEF, high-draw)				
Electric:	0.95 EF (0.93 UEF)								
Oil:	30 Gal = 0.64 EF	40 Gal = 0.62 EF	50 Gal = 0.60 EF	60 Gal = 0.58 EF	70 Gal = 0.56 EF	80 Gal = 0.54 EF			
Boiler:	85% E <sub>t</sub>								
<b>Lighting, Appliances, &amp; Fixtures</b>									
<ul style="list-style-type: none"><li>ENERGY STAR refrigerators and dishwashers.</li><li>90% of all exterior and common space light fixtures must be ENERGY STAR certified or meet the alternatives defined in the National Rater Field Checklist. This requirement applies to exterior lighting fixtures that are attached to the building, but does not apply to landscape or parking lot lighting fixtures.</li><li>WaterSense showerheads.</li></ul>									



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Two tracks are provided for satisfying the mandatory requirements for all certified buildings, Exhibit 2. Track A – HVAC Grading by Rater allows a Rater to utilize ANSI / RESNET / ACCA 310<sup>14</sup>, a standard for grading the installation of residential HVAC systems serving individual spaces and a Functional Testing Agent to verify commercial and central systems. Track B –HVAC Testing by FT Agent utilizes a Functional Testing Agent for all systems. Either track may be selected, but all requirements within that track must be satisfied for the building to be certified.

## Exhibit 2: Mandatory Requirements for All Certified Multifamily Buildings

Party Responsible	Mandatory Requirements
<b>Requirements Applicable to Track A &amp; B</b>	
<b>Rater</b>	<ul style="list-style-type: none"><li>• Completion of MFNC National Rater Design Review Checklist, Version 1 / 1.1 / 1.2</li><li>• Completion of MFNC National Rater Field Checklist, Version 1 / 1.1 / 1.2</li></ul>
<b>Builder or Developer</b>	<ul style="list-style-type: none"><li>• Completion of MFNC National Water Management System Requirements, Version 1 / 1.1 / 1.2</li></ul>
<b>Requirements Only Applicable to Track A - HVAC Grading by Rater<sup>14</sup></b>	
<b>HVAC System Designer</b>	<ul style="list-style-type: none"><li>• Completion of an HVAC design report compliant with ANSI / RESNET / ACCA 310, plus the SFNH / MFNC National HVAC Design Supplement to Std. 310 For Dwellings &amp; Units and the MFNC National HVAC Design Supplement to Std. 310 for Common Spaces &amp; Central Systems</li></ul>
<b>Functional Testing Agent</b>	<ul style="list-style-type: none"><li>• Completion of applicable sections of the MFNC National HVAC Functional Testing Checklist. Exempt from Sections 2 and 3 for Dwelling Unit HVAC as the Rater is the party responsible for assessing these systems installation quality in accordance with ANSI / RESNET / ACCA. 310</li></ul>
<b>Requirements Only Applicable to Track B –HVAC Testing by FT Agent</b>	
<b>HVAC System Designer</b>	<ul style="list-style-type: none"><li>• Completion of MFNC National HVAC Design Report, Version 1 / 1.1 / 1.2</li></ul>
<b>Functional Testing Agent</b>	<ul style="list-style-type: none"><li>• Completion of MFNC National HVAC Functional Testing Checklist, Version 1 / 1.1 / 1.2</li></ul>



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## Exhibit 3: Whole-Building Modeling MRO Documents

The following documents (or equivalent as determined by the MRO) must be submitted to the MRO. Those designated as 'final only' are only submitted at final certification.

Party Responsible	Documents
<b>Requirements Applicable to All Buildings</b>	
<b>Rater</b>	<ul style="list-style-type: none"><li>• Multifamily Workbook</li><li>• MFNC National Rater Design Review Checklist, Version 1 / 1.1 / 1.2</li><li>• MFNC National Rater Field Checklist, Version 1 / 1.1 / 1.2 (Final only)</li><li>• Construction Documents</li><li>• Photo Documentation (Final only)</li></ul>
<b>Requirements Applicable to Whole-Building Modeling Only</b>	
<b>Modeler</b>	<ul style="list-style-type: none"><li>• California Compliance Report</li><li>• Modeling file OR model input and output files</li></ul>
<b>Requirements Only Applicable to Track A – HVAC Grading by Rater <sup>14</sup></b>	
<b>HVAC System Designer</b>	<ul style="list-style-type: none"><li>• HVAC design report(s) compliant with ANSI / RESNET / ACCA 310</li><li>• SFNH / MFNC National HVAC Design Supplement(s) to Std. 310 for Dwellings &amp; Units, All Versions</li><li>• MFNC National HVAC Design Supplement to Std. 310 for Common Spaces &amp; Central Systems, All Versions, where applicable</li></ul>
<b>Functional Testing Agent</b>	<ul style="list-style-type: none"><li>• National HVAC Functional Testing Checklists, Version 1 / 1.1 / 1.2</li></ul>
<b>Requirements Only Applicable to Track B – HVAC Testing by FT Agent</b>	
<b>HVAC System Designer</b>	<ul style="list-style-type: none"><li>• MFNC National HVAC Design Report, Version 1 / 1.1 / 1.2</li></ul>
<b>Functional Testing Agent</b>	<ul style="list-style-type: none"><li>• MFNC National HVAC Functional Testing Checklist, Version 1 / 1.1 / 1.2 (Final only)</li></ul>

### Notes:

- For multifamily projects with multiple buildings, each building must demonstrate compliance with the program requirements, but can be documented using one Multifamily Workbook and one HVAC Design Report per project.
- For the Excel-based Multifamily Workbook, while Partners are encouraged to always use the newest versions available online, unless otherwise specified, file updates between Program revisions will not be required. After a Program revision, Raters will be required to use the updated Workbook based on the enforcement timeline set for the revision.





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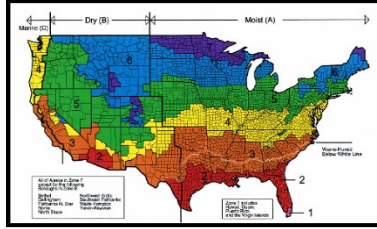
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### Footnotes:

1. Buildings that do not contain dwelling or sleeping units are not eligible for certification under MFNC. The term 'building' refers to a structure that encompasses dwelling/sleeping units and (if present) common spaces, sharing one or more of the following attributes: a common street address, a common entrance or exit, central/shared mechanical systems, or structurally interdependent wall or roof systems. Attached structures such as townhouses and 4-story two-unit structures (commonly referred to as "2-over-2s") may be considered separate buildings if they are divided by a vertical fire separation wall from the foundation to the roof sheathing and share none of the other attributes listed above. A skyway or a breezeway that connects two structures is not considered a common entrance or exit. A dwelling unit, as defined by ANSI / RESNET / ICC 301, is a single unit that provides complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking, and sanitation. A 'sleeping unit', as defined by ANSI / RESNET / ICC 301, refers to a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. A 'dwelling', as defined by ANSI / RESNET / ICC 301, is any building that contains one or two dwelling units used, intended, or designed to be built, used, rented, leased, let or hired out to be occupied, or that are occupied for living purposes. For the purposes of eligibility, hotels, motels, and [senior care facilities](#) are not considered multifamily buildings. Visit: [https://www.energystar.gov/partner\\_resources/residential\\_new/program\\_reqs/mfnc\\_building\\_eligibility](https://www.energystar.gov/partner_resources/residential_new/program_reqs/mfnc_building_eligibility) for more information.
2. The term 'common space' refers to any spaces in the building being certified that serve a function in support of the residential part of the building that is not part of a dwelling or sleeping unit. This includes spaces used by residents, such as corridors, stairs, lobbies, laundry rooms, exercise rooms, residential recreation rooms, and dining halls, as well as offices and other spaces used by building management, administration or maintenance in support of the residents.
3. A 'townhouse', as defined by ANSI / RESNET / ICC 301, is a single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from the foundation to roof and with open space on at least two sides.
4. The 'permit date' is the date on which the permit authorizing construction of the building was issued. Alternatively, the date of the Rater's first site visit or the application date of the permit is allowed to be used as the 'permit date'. The 'plan approval date' is the date that a jurisdiction approves a building plan and its efficiency features for use on a specific lot or tract. As an exception, if a new plan is added to a specific tract's existing plan set and the new plan is subject to the same edition of the energy code as the existing plan set, then the 'plan approval date' is considered to be the existing plan set's original plan approval date.
5. While certification will result in compliance with many code requirements, a Rater is not responsible for ensuring that all code requirements have been met prior to certification. For more information about how these program requirements help satisfy code requirements, visit: [www.energystar.gov/newhomesguidance](http://www.energystar.gov/newhomesguidance). In the event that a code requirement, a manufacturer's installation instructions, or an engineering document conflicts with a requirement of the ENERGY STAR program (e.g., slab insulation is prohibited to allow visual access for termite inspections), then the conflicting requirement within these program requirements shall not be met. Certification shall only be allowed if the Rater has determined that no equivalent option is available that could meet the conflicting requirement (e.g., switching from exterior to interior slab edge insulation). Note that a home must still meet its ENERGY STAR ERI Target. Therefore, other efficiency measures may be needed to compensate for the omission of the conflicting requirement.
6. The term 'Provider' refers to an Approved Rating Provider as defined by ANSI / RESNET / ICC 301 that is a designee of an HCO.
7. The term 'Rater' refers to the person(s) completing the third-party verification required for certification. The person(s) shall: a) be a Certified Rater, Approved Inspector, as defined by ANSI / RESNET / ICC 301, or an equivalent designation as determined by an HCO or MRO; and, b) have attended and successfully completed an EPA-recognized training class. See [www.energystar.gov/mftraining](http://www.energystar.gov/mftraining).  
For multifamily building types other than Townhouses, Raters who operate under an MRO or an HCO with a Sampling Protocol are permitted to verify the minimum rated features of the building and to verify any Checklist Item designated "Rater Verified" using an MRO, HCO or CEC-approved sampling protocol for buildings in CA. Functional Testing Agents, except the installing contractor, may follow the sampling protocol described in the [MFNC Functional Testing Checklist Sampling Protocols](#). No other parties are permitted to use sampling. All other items shall be verified for each certified building. For example, no builder verified items are permitted to be verified using a sampling protocol.
8. These requirements apply to all dwelling units, sleeping units, common spaces <sup>2</sup>, and garages (open or enclosed) in the building being certified, and where specified, parking lots. These requirements do not apply to commercial or retail spaces. These requirements do not apply to common spaces that are located in buildings on the property without any dwelling or sleeping units. These requirements do not apply to parking garages or lots where the cost of the energy use of the parking garage or lot is not the responsibility of the Builder/Developer, Building Owner or Property Manager.
9. CEC-approved computer programs can be found at: [www.energy.ca.gov/title24/2016standards/2016\\_computer\\_prog\\_list.html](http://www.energy.ca.gov/title24/2016standards/2016_computer_prog_list.html).
10. Home Certification Organizations (HCOs) are independent organizations recognized by EPA to implement an ENERGY STAR certification program for single-family and multifamily homes and apartments using an Energy Rating Index (ERI) compliance path. Learn more and find a current list of HCOs at [www.energystar.gov/partner\\_resources/residential\\_new/working/other\\_participants/hco](http://www.energystar.gov/partner_resources/residential_new/working/other_participants/hco).
11. A modular building is a prefabricated building that is made of multiple modules or sections that are manufactured and substantially assembled in a manufacturing plant. These pre-built sections are transported to the building site and constructed by a builder to meet all applicable building codes for site-built buildings.
12. The Climate Zone boundaries are illustrated by the 2009 IECC Figure R301.1.



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13. Where equipment is rated in SEER2, or HSPF2, the following table shall be used to determine the required efficiency. The first two rows show the efficiency listed in Exhibit 1, and below are rows for the converted metric by equipment type.

	SEER		HSPF			
	13	15	8.2	8.5	9.25	9.5
Equipment Type	SEER2		HSPF2			
Ductless Systems	13.0	15.0	7.3	7.6	8.3	8.5
Ducted Split System	12.3	14.2	6.9	7.2	7.8	8.0
Ducted Single Packaged System	12.3	14.2	6.8	7.1	7.7	7.9

14. Track A –HVAC Grading by Rater shall use ANSI / RESNET / ACCA 310 including all Addenda and Normative Appendices, with new versions and Addenda implemented according to the schedule defined by the HCO or MRO that the building is being certified under.