



# ENERGY STAR Manufactured New Homes National Program Requirements, Version 3 (Rev. 02)

## Eligibility Requirements

Only manufactured homes <sup>1</sup> are eligible to be certified through the ENERGY STAR Manufactured New Homes (MH) program. Use the table below to determine the applicable ENERGY STAR Manufactured New Homes program requirements, including the minimum Version and Revision, to which a home is eligible to be certified. For information about the minimum program versions eligible to satisfy the Section 45L New Energy Efficient Home Credit, visit <https://www.energystar.gov/45LTaxCredits>.

Where EPA has defined a newer Version and / or Revision of the same ENERGY STAR program requirements, homes are eligible to be certified to the new Version / Revision. For example, if a home is eligible to be certified to Version 2 of the MH National Program Requirements, then it is also eligible to be certified to Version 3 of the MH National Program Requirements.

The table below contains all Versions and Revisions eligible for use for homes produced on or after January 1, 2020. Program requirements applicable prior to this date can be obtained by contacting [energystarhomes@energystar.gov](mailto:energystarhomes@energystar.gov).

### Applicable ENERGY STAR MH Program Requirements, Versions and Revisions

If Home is Produced On or After This Date:	These Are the Applicable Program Requirements, Including Minimum Version (“v”) & Revision (“Rev.”)	
06-01-2020	MH National v2	Rev. 00
01-01-2024	MH National v2	Rev. 01
01-01-2025	MH National v2	Rev. 02
01-01-2026	MH National v3	Rev. 02

Site-built and modular single-family homes and multifamily buildings may not earn the ENERGY STAR through the Manufactured Homes program but may be eligible for certification through other ENERGY STAR New Construction programs. For more information, visit: [www.energystar.gov/newhomesrequirements](http://www.energystar.gov/newhomesrequirements).

## Partnership and Plant Certification Requirements

Manufactured housing plants must meet the following requirements prior to certifying homes as ENERGY STAR:

- Sign an ENERGY STAR Partnership Agreement, available at [www.energystar.gov/homesPA](http://www.energystar.gov/homesPA).
- Complete a plant certification process through an EPA-recognized Quality Assurance Provider (QAP). <sup>2</sup> A list of recognized QAPs can be found at [www.energystar.gov/manufacturedhomes](http://www.energystar.gov/manufacturedhomes).

If a plant is de-certified by its QAP for any reason, it may no longer produce ENERGY STAR certified manufactured homes and must immediately cease all use of the ENERGY STAR name and logo.

## ENERGY STAR Certification Process <sup>3</sup>

1. As noted above, plants must be certified by an EPA-recognized QAP to be eligible to produce homes that earn the ENERGY STAR. The QAP ensures that the plant’s home design packages intended for certification meet the requirements in Exhibit 1 and, for multi-section homes, also satisfy the requirements in Exhibit 2.
2. Plants then incorporate the ENERGY STAR program requirements into the Design Approval Primary Inspection Agency’s (DAPIA)-approved packages, the plant Quality Control Manual, and the Manufacturer’s Installation Manual.
3. Once certified, plants may produce and install ENERGY STAR certified homes in accordance with the designs and installation procedures developed during the plant certification process. The plant’s third-party Production Inspection Primary Inspection Agency (IPIA) shall inspect the homes for consistency with the DAPIA-approved packages and the plant’s quality control (QC) personnel shall verify that the ENERGY STAR features are installed in accordance with the plant’s Quality Control Manual.
4. Some ENERGY STAR certified manufactured homes are subject to verification requirements for features that are installed after the home leaves the plant. For multi-section homes, tightly sealed crossover duct installation in accordance with the Mandatory Setup Requirements in Exhibit 1 must be verified at the site. Additionally, for homes designed to use a heat pump measure from Exhibit 2, installation of the heat pump equipment must be verified. Refer to each QAP for details on approved verification protocols. <sup>4</sup>
5. Plants must report all homes that are certified as ENERGY STAR to their QAP and ensure that an ENERGY STAR label is affixed either adjacent to the HUD Data Plate or inside the electric panel cover of the home. Refer to each QAP for additional details on labeling requirements.
6. The QAP will coordinate with the plant on an ongoing basis to conduct periodic field evaluations and documentation audits. Field evaluations shall be conducted on no less than two percent (2%) of a plant’s multi-section ENERGY STAR certified manufactured homes sold and installed on a homeowner’s site, or a minimum of one multi-section home each calendar year, whichever is greater. QAPs shall audit documentation of the heat pump equipment installation for no less than ten percent (10%) of certified homes that use a heat pump measure from Exhibit 2.



# ENERGY STAR Manufactured New Homes National Program Requirements, Version 3 (Rev. 02)

## Exhibit 1: Mandatory Requirements for All Certified Manufactured Homes

Mandatory Energy Efficiency Measures																																							
<b>Envelope, Windows, &amp; Doors</b>																																							
<ul style="list-style-type: none"> <li>Insulation and glazing U-factor levels shall comply with one of the following options:               <ul style="list-style-type: none"> <li>Meet or exceed the following performance levels:                   <table border="1" data-bbox="354 415 1360 625"> <thead> <tr> <th>Climate Zone: <sup>5</sup></th> <th>CZ 1</th> <th>CZ 2</th> <th>CZ 3</th> </tr> </thead> <tbody> <tr> <td>Wall Insulation:</td> <td>R-13</td> <td>R-21</td> <td>R-21</td> </tr> <tr> <td>Floor Insulation:</td> <td>R-22</td> <td>R-22</td> <td>R-33</td> </tr> <tr> <td>Ceiling Insulation:</td> <td>R-33</td> <td>R-33</td> <td>R-38</td> </tr> <tr> <td>Door U-factor:</td> <td>0.40</td> <td>0.40</td> <td>0.30</td> </tr> <tr> <td>Window U-factor:</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> </tr> </tbody> </table> </li> <li>OR achieve an overall coefficient of heat transmission <sup>6</sup> (U<sub>o</sub>) that does not exceed:                   <table border="1" data-bbox="354 657 1360 730"> <tbody> <tr> <td>Single-section U<sub>o</sub>:</td> <td>0.076</td> <td>0.065</td> <td>0.057</td> </tr> <tr> <td>Multi-section U<sub>o</sub>:</td> <td>0.070</td> <td>0.063</td> <td>0.054</td> </tr> </tbody> </table> </li> </ul> </li> <li>The solar heat gain coefficient of fenestration shall not exceed: <sup>7</sup> <table border="1" data-bbox="354 762 1360 804"> <tbody> <tr> <td>SHGC:</td> <td>0.25</td> <td>0.25</td> <td>N/A</td> </tr> </tbody> </table> </li> </ul>				Climate Zone: <sup>5</sup>	CZ 1	CZ 2	CZ 3	Wall Insulation:	R-13	R-21	R-21	Floor Insulation:	R-22	R-22	R-33	Ceiling Insulation:	R-33	R-33	R-38	Door U-factor:	0.40	0.40	0.30	Window U-factor:	0.30	0.30	0.30	Single-section U <sub>o</sub> :	0.076	0.065	0.057	Multi-section U <sub>o</sub> :	0.070	0.063	0.054	SHGC:	0.25	0.25	N/A
Climate Zone: <sup>5</sup>	CZ 1	CZ 2	CZ 3																																				
Wall Insulation:	R-13	R-21	R-21																																				
Floor Insulation:	R-22	R-22	R-33																																				
Ceiling Insulation:	R-33	R-33	R-38																																				
Door U-factor:	0.40	0.40	0.30																																				
Window U-factor:	0.30	0.30	0.30																																				
Single-section U <sub>o</sub> :	0.076	0.065	0.057																																				
Multi-section U <sub>o</sub> :	0.070	0.063	0.054																																				
SHGC:	0.25	0.25	N/A																																				
<b>Thermostat &amp; Ductwork</b>																																							
<ul style="list-style-type: none"> <li>Programmable thermostat shall be installed.</li> <li>Ducts in floor cavities shall be enclosed by floor insulation.</li> <li>Crossover ducts, ducts in unconditioned attics, and other ducts in unconditioned space shall have at least R-8 duct insulation. <sup>8</sup></li> </ul>																																							
Mandatory Setup Requirements																																							
<ul style="list-style-type: none"> <li><b>Marriage line seal:</b> For multi-section homes only, the marriage line areas must be filled with a continuous, non-porous insulating gasket creating a permanent air barrier in the ceiling, walls, and floor. Acceptable gaskets can be one- or two-part systems, including proprietary gaskets, foams, insulation wrapped in poly and insulation covered by butyl or other long-life tape on one side. There should be no visible gaps or tears. The marriage line seal shall be installed at the plant and be protected against damage during shipping.</li> <li><b>Duct Installation:</b> For multi-section homes only, the crossover ducts must be installed such that all seams and joints are tightly sealed against leakage and the ducts do not rest on the ground.</li> </ul>																																							



# ENERGY STAR Manufactured New Homes National Program Requirements, Version 3 (Rev. 02)

## Exhibit 2: Additional Requirements for Multi-Section Certified Manufactured Homes

For multi-section homes, in addition to meeting the mandatory requirements in Exhibit 1, select one or more additional energy efficiency measures from the table below to achieve a total of at least 10 (ten) points. The first measure in the table represents the mandatory requirement in Exhibit 1, which may be counted towards the required points total.

Energy Efficiency Measure	Point Value		
	CZ 1	CZ 2	CZ 3
<b>Mandatory Requirements</b>			
All requirements in Exhibit 1.	7.5	2.5	2.0
<b>Optional Envelope Improvements</b>			
Coefficient of heat transmission (Uo) ≤ 0.049. <sup>6</sup>	12.0	9.5	4.5
<b>Optional Heating and Cooling Equipment</b>			
Heat pump ≥ 7.5 HSPF2 / 14.3 SEER2. <sup>9</sup>	9.0	13.5	17.0
Gas / propane Furnace ≥ 90 AFUE.	2.0	2.5	5.5
Gas / propane Furnace ≥ 95 AFUE.	2.5	3.5	7.5
Gas / Propane Furnace ≥ 96 AFUE.	3.0	4.0	8.5
<b>Optional Water Heater Equipment</b>			
Gas / Propane Water Heater ≥ 0.93 UEF.	4.5	3.5	0.5
Heat pump water heater ≥ 2.20 UEF.	6.0	5.5	1.5
Heat pump water heater ≥ 3.30 UEF.			
Heat pump water heater ≥ 2.20 UEF.	9.0	10.0	7.5
Heat pump water heater ≥ 3.30 UEF.			
<b>Optional Lighting, Appliances, &amp; Water Fixtures</b>			
LED lighting installed in all permanently installed fixtures. <sup>10</sup>	0.5	0.5	0.5
Bathroom faucets ≤ 1.5 gallons per minute (gpm) and showerheads ≤ 2.0 gpm.	0.5	0.5	0.5
ENERGY STAR certified refrigerator and dishwasher. <sup>11</sup>	0.5	0.5	0.5
ENERGY STAR certified clothes washer. <sup>11</sup>	0.5	0.5	0.5



# ENERGY STAR Manufactured New Homes National Program Requirements, Version 3 (Rev. 02)

## Footnotes:

1. A manufactured home is defined as a home built in a factory that is subject to the federal Manufactured Home Construction and Safety Standards (commonly referred to as the HUD Code) contained in 24 CFR 3280.
2. A 'Quality Assurance Provider' (QAP) is an organization that supervises the third-party inspections required for plant certification, home labeling, and ongoing plant certification maintenance. The QAP may fulfill these responsibilities itself, or it may use qualified, independent, third-party consultants.
3. Certification of a manufactured home to meet ENERGY STAR program requirements is not intended to imply compliance with applicable codes. In cases where requirements of the federal or local codes or manufacturers' installation instructions overlap or conflict with ENERGY STAR program requirements:
  - a. ENERGY STAR requirements shall be met if they exceed the stringency of code requirements or installation instructions;
  - b. ENERGY STAR requirements shall not be met if they conflict with code requirements or installation instructions. In such cases, the homes may not be certified unless the EPA-recognized Quality Assurance Provider has determined that no equivalent option is available that could meet the conflicting requirement.
4. With approval from EPA, each QAP defines its own protocol for verifying the crossover duct requirements and installation of heat-pump or air-conditioning equipment that occurs after the home leaves the plant. At a minimum, approved verification protocols shall include on-site verification of the crossover duct requirements by a designated agent and collection of the equipment make and model, along with on-site verification or supporting documentation.
5. Climate Zone boundaries as established by the Energy Conservation Standards for Manufactured Homes contained in 10 CFR 460. Climate Zone 1 consists of Alabama, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, and Texas. Climate Zone 2 consists of Arkansas, Arizona, California, Kansas, Kentucky, Missouri, New Mexico, North Carolina, Oklahoma, and Tennessee. Climate Zone 3 consists of all other states.
6. The overall coefficient of heat transmission ( $U_o$ ) shall be determined by methods outlined in 10 CFR 460.102 (e) and is expressed in units of Btu / (hr.) (sq. ft.) (F).
7. SHGC requirements apply to windows, skylights and doors  $\geq 50\%$  glazed. An area-weighted average of windows, skylights and doors  $\geq 50\%$  glazed shall be permitted to satisfy the SHGC requirements.
8. Ducts are not required to be buried within ceiling insulation. If they are, EPA recommends but does not require that the ducts comply with the insulation and leakage requirements of Sections 403.3.3 and 403.3.7 of the 2021 International Energy Conservation Code, as well as the vapor retarder requirements of Section 604.11 of the 2021 International Mechanical Code or Section M1601.4.6 of the 2021 International Residential Code. Burying ducts within ceiling insulation is not an alternative to the requirement that ducts in unconditioned attics have at least R-8 duct insulation.
9. 'Heat Pump' refers to an air-source or ground-source heat pump, including those with electric, gas, or propane backup. The SEER2 and HSPF2 metrics are established by Appendix M1 to the Uniform Test Method for Measuring the Energy Consumption of Central Air Conditioners and Heat Pumps contained in 10 CFR 430 and heat pump manufacturers are required to report performance using these metrics by January 1, 2023.
10. One fixture per home may be excluded from the requirement to install an LED light. As an alternative to installing LED lighting at the manufacturing plant, LED bulbs may be shipped in packaging with the home.
11. For a list of current ENERGY STAR products, visit [www.energystar.gov/products](http://www.energystar.gov/products).