Basement/Crawl Space

Quality Home Construction Checklist: Model Energy Code



The Missouri Residential Energy Efficiency Program is proud to help today's home builders, contractors and code officials stay up-to-date on current building codes and energy efficiency best practices. While this checklist doesn't include every requirement, you can use this as a guide while assessing new homes, ensuring construction quality and making decisions about energy efficiency.

Energy Certificate

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Energy Certificate: What to Look For?

An energy certificate illustrates the minimum energy efficiency standards required by a municipality in every new home. Below is a description of the home components identified on this certificate. As a homeowner, you want to ensure the measures listed on your home's certificate meet or exceed these minimum code requirements.

R-values

These are the minimum requirements for the home's insulation in order to meet the code. R-values on the form should be greater than or equal to those shown here.

U-factors

These are the requirements for the insulation value of a home's windows, doors, and skylights. U-values on the home's energy certificate should be less than or equal to those shown in the certificate below.

Heating and Cooling (HVAC)

The way heating and cooling systems are rated and the minimum levels for efficiency depend

Type	Min rating
Air Conditioner	13 SEER
Gas Furnace	80AFUE

on the type Heat Pump 8.2 HSPF installed and fuel used. These abbreviations: SEER, AFUE, and HSPF indicate efficiency. The higher the rating, the more efficient the heating or cooling system is. Use the chart above to determine the minimum rating allowed for each system.

Water Heater

The minimum efficiency factor (EF) for water heaters depends on the size and fuel type used. The higher the number, the more efficient the water heater is.

Size	Gas	Electric
30 Gal	0.63	0.95
40 Gal	0.62	0.95
50 Gal	0.60	0.95
65 Gal	0.75	1.98
75 Gal	0.74	1.97

Minimum EFs for Water Heaters

Model Energy Code Energy Certificate					
Compliance Method	b	Date			
Prescriptive					
Insulation			R-value		
Ceiling/Roof			38		
Walls			13		
Floors			19		
Ducts			8		
Basement Walls			10/13*		
Window and Door Ratings			U-factor		
Windows			0.35		
Doors			0.35		
HVAC Equipment		Туре	Rating		
Furnace		Gas	80% AFUE		
Water Heating		Type	EF value		
Water Heater	50) Gal., Gas	0.60		
General Contractor:					

*"10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home (sealed at joints) or R-13 cavity insulation at the interior of the basement wall.





Insulation Contractor:

Form Completed By:

