

## Homeowners

Since August 1998 when the Commonwealth of Kentucky established minimum energy conservation standards for new home construction, every new home in Kentucky must meet these minimum standards. This checklist does not cover every aspect of the code, but addresses the requirements that are easiest to identify. Using the information below, homeowners can identify aspects of a home that meet Kentucky's energy code. When homes meet or exceed code requirements, it's a good indication of quality construction and an indicator of whether the home is an energy hog.

### Energy Certificate

- Energy Certificate located on circuit breaker box is completed and signed  
See reverse side for an example and more details.

### Air Sealing

- All holes between floors and through walls have been sealed with caulk or foam, examples include:
  - where phone and cable wires enter the house
  - where plumbing goes through walls, floors, and ceiling

### Ducts

In Attic:

- Ceiling and walls are insulated  
or
- Ducts are sealed and insulated to a value of R-8 in attics and R-6 elsewhere

Whole House:

- All ducts are sealed with mastic -- duct tape is not acceptable

### Insulation

- Floor over crawl space is insulated  
or
- There are no vents and crawl space walls are insulated (preferred)

### Windows

- Windows have a U-factor of 0.35 or less
  - Skylights have a U-factor of 0.60 or less
- Existing Homes:
- Evaluate windows for age, quality and air tightness

### Heating and Cooling

- To ensure your safety and protect the value of your investment, use a licensed installer and have the system inspected.

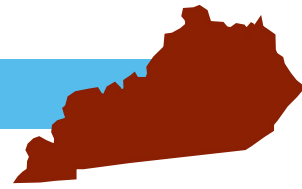
### Alternative Compliance Path

- If these requirements are not met, ask your contractor for documentation showing the home meets minimum standards for energy consumption.

For more information and to learn how to verify whether your home meets national standards, visit <http://www.dhbc.ky.gov/Pages/default.aspx>

The consumer education campaign is made possible by the combined efforts of the following organizations: Kentucky Department for Energy Development and Independence, U.S. Department of Energy, Building Codes Assistance Project, the Kentucky Department of Housing, Buildings, and Construction, and Midwest Energy Efficiency Alliance.





This energy certificate from the 2013 Kentucky Residential Code (KRC) illustrates the energy efficiency standards which are required in every new home in Kentucky. This sample form has been completed with the **minimum** standards for each building element in the home, meaning that the certificate in the home should meet these standards or better. Look for this certificate in or near the home's circuit breaker box or electric panel box. Make sure that it has been signed by the builder and identifies the other contractors.

If you have any questions about what is reported on the certificate, ask the builder or the building permits office.

### 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.

### R-values

These are the minimum requirements allowed 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.

### Heating and Cooling (HVAC)

The way heating and cooling systems are rated and the minimum levels for efficiency depend on the type 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 below to determine the minimum rating allowed for each system.

type	min rating
air conditioner	SEER-13
electric furnace	AFUE: 78%
electric boiler	AFUE: 80%
gas boiler	AFUE: 75%
heat pump	HSPF: 7.7

### 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.

Minimum EFs for Water Heaters

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

\* "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.

2013 KRC Energy Certificate		
<b>Compliance Method</b>		<b>Date</b>
Prescriptive		5/1/2015
<b>Insulation</b>		<b>R-value</b>
Ceiling/Roof		38
Walls		13
Floors		19
Ducts		8
Basement Walls		10/13
<b>Window and Door Ratings</b>		<b>U-factor</b>
Windows		0.35
Doors		0.35
<b>HVAC Equipment</b>	<b>Type</b>	<b>Rating</b>
Gas Boiler		75% AFUE
<b>Water Heating</b>		<b>EF value</b>
Water Heater	50 Gal., Gas	0.60
General Contractor:		K+M Contractors
Insulation Contractor:		RKM Insulation
Form Completed By:		A.P.