HOME ENERGY CODE CHECKLIST:



NEW HOMES IN MICHIGAN

If you are interested in purchasing a quality home—or want to learn more about how to make your home more energy-efficient—this guide provides a quick way to assess home energy performance.

This checklist helps you spot check for compliance with the 2009 Michigan Uniform Energy Code (MUEC), which became effective on March 9, 2011. While it does not include every requirement, this checklist will help you assess a home and make an informed decision about the quality of construction and efficiency of a home.

ENERGY CERTIFICATE	WOOD-BURNING FIREPLACE		
Energy Certificate located on circuit breaker box is completed and signed	☐ The fireplace doors are sealed with gaskets		
See reverse side for an example and more details.	INSULATION		
AIR SEALING	Crawl space walls or the crawl space ceiling is properly insulated		
All holes between floors and through walls have been sealed with caulk or foam, examples include:	Attic door or access hatch is weatherstripped and properly sealed		
 where phone and cable wires enter the house where plumbing goes through walls, floors, and ceiling 	WINDOWS		
	Windows and skylights meet the minimum		
THERMOSTAT	requirements for U-factors and SHGCs Visit www.efficientwindows.org/code_overview.cfm		
☐ If a forced air system is being installed, the home	for minimums in your climate zone EXISTING HOMES:		
has a programmable thermostat.	Evaluate windows for age, quality, and air		
	tightness		
DUCTS			
IN ATTIC: Ceiling and walls are insulated, or	TESTS		
Ducts are sealed and insulated to a value of R-8	A blower door test resulted in a score of seven air		
WHOLE HOUSE:	changes per hour (ACH) or less, if applicable		
All ducts are sealed with mastic	☐ The builder tested ducts for air leakage		
LICHTING	ALTERNATIVE COMPLIANCE PATH		

For the latest information on codes in your state, check out **energycodesocean.org** and find out how to take action.



efficiency bulbs



If these requirements are not met, ask your contractor

for documentation showing the home meets

minimum standards for energy consumption.

At least half of the home's light fixtures have high-

SAMPLE ENERGY CERTIFICATE FOR MICHIGAN HOMES

This energy certificate from the 2009 International Energy Conservation Code (IECC) illustrates the energy efficiency standards, which are required in new homes in most U.S. states. This sample form has been completed with the minimum standards for each building element in the home, meaning that the certificate in your home should meet or exceed these stan-dards. These values will vary based on your climate zone.* Look for this certificate in or near the home's circuit breaker box or electric panel box and make sure that it has been signed by the builder and identifies the other contractors.

If you have any questions or concerns about details on the certificate, talk to your builder or your local building permits office.

*Determine your climate zone at: www.energycode.pnl.gov/EnergyCodeReqs/

R-VALUES

R-value refers to the thickness and effectiveness of insulation. In order to meet code, R-values on the form should be greater than or equal to those shown in this certificate.

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

TYPE	MIN.RATING
air conditioner	SEER-13
electric furnace	AFUE: 78%
electric boiler	AFUE: 80%
gas boiler	AFUE: 75%
heat pump	HSPF: 7.7

at left to determine the minimum rating allowed for each system.

WATER HEATER

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	

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

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.

	2009 IE	CC Fnor	gy Certi	
	Compliance Meth	od Filel	gy Certi	ficate
	PERSCRIPTU	F	Date	
	ilisulation		5/1/201	1
-	Ceiling/Roof			r-value
	Walls			38
	Floors			13+5
	Ducts			19
E	Basement Walls			8
V	Vindow and Door R	Ratings	TO STATE OF THE PARTY OF THE PA	10/13
-	muows			u-factor
The second liverage in con-	oors			0.35
H	AC Equipment	Туре		0.40
0,	AS BORER	. / pc		Rating
Wa	ater Heating	Туре		75% AFUE
	iter Heater	50 GN	100	EF value
Ger	neral Contractor:	50 GAL		0.60
	llation Contractor:	K+M	CONTRA	LORS
Forr	n Completed By:	RKM	INSULA	TEQU
		Unug	dryve	-

INSULATION NOTE

"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.