



# 2018 TOUCHSTONE ENERGY® HOME PROGRAM CHECKLIST

Dairyland Power Cooperative System Only



Requirement Category	Requirement Detail	Requirement	Check one checkbox for each requirement below	
			Meets Requirement	Not Applicable
Foundation	Basement wall	R-15. R-20 if more than half the insulation is on the interior of the mass wall.	<input type="checkbox"/>	<input type="checkbox"/>
	Crawlspace wall	R-15. R-20 if more than half the insulation is on the interior of the mass wall.	<input type="checkbox"/>	<input type="checkbox"/>
	Ground cover	6-Mil vapor barrier taped at all joints with 6" overlap	<input type="checkbox"/>	<input type="checkbox"/>
	Slab	R-10 to depth of 4 ft	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	Floor over crawlspace	R-30	<input type="checkbox"/>	<input type="checkbox"/>
	Ceilings without attic spaces	R-49. If insufficient space for R-49, then R-30, but is limited to 500 sq ft or 20% of insulated ceiling, whichever is less.	<input type="checkbox"/>	<input type="checkbox"/>
	Ceilings with attic spaces	R-49. Wherever full height of uncompressed insulation extends over the wall top plate at the eaves, R-38.	<input type="checkbox"/>	<input type="checkbox"/>
	Wood frame wall	R-20 cavity insulation + R-5 exterior insulation, or R-13 cavity insulation + R-10 exterior insulation	<input type="checkbox"/>	<input type="checkbox"/>
	Knee walls	If 6" wall: R-20 in cavity, R-5 outside of knee wall. If 3 1/2" wall: R-13 in cavity, R-10 outside of knee wall.	<input type="checkbox"/>	<input type="checkbox"/>
	Mass wall: poured concrete or log	R-15. R-20 if more than half the insulation is on the interior of the mass wall.	<input type="checkbox"/>	<input type="checkbox"/>
	Circulating hot water pipes	R-3 with manual off switch	<input type="checkbox"/>	<input type="checkbox"/>
	Mechanical system piping	R-3 if piping over 105 degrees Fahrenheit or under 55 degrees Fahrenheit	<input type="checkbox"/>	<input type="checkbox"/>
Windows/ Doors	Fenestration	U-Factor 0.32 maximum or ENERGY STAR® labeled	<input type="checkbox"/>	<input type="checkbox"/>
	Glazed fenestration	No requirement	<input type="checkbox"/>	<input type="checkbox"/>
	Window/Glass	U-Factor 0.32 maximum or ENERGY STAR labeled	<input type="checkbox"/>	<input type="checkbox"/>
	Skylight	U-Factor 0.55 maximum	<input type="checkbox"/>	<input type="checkbox"/>
	Doors	Metal insulated (exception for entry). Performance same as 2004 IECC: insulated metal U-0.6, wood U-0.5, insulated nonmetal edge, max 45% glazing, any glazing double pane U-0.35	<input type="checkbox"/>	<input type="checkbox"/>
Equipment	HVAC	Heat pump recommended & must be properly sized in accordance with ACCA Manual S, based on building loads calculated in accordance with ACCA Manual J or other approved methodologies. Dual Fuel gas furnace must be closed combustion, 90+ AFUE, & have ducted intake & exhaust. Temperature controls must be installed, including a programmable thermostat where required.	<input type="checkbox"/>	<input type="checkbox"/>
	Water heating	Electric or heat pump recommended, or else closed combustion. Efficiency for electric: 50 gallon=0.93 EF; > 50 gallon=0.89 EF	<input type="checkbox"/>	<input type="checkbox"/>
	Appliances	Recommend ENERGY STAR where applicable	<input type="checkbox"/>	<input type="checkbox"/>
	Can lights	Insulation contact rated and air tight	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust	Exhaust systems	Outdoor air intakes and exhaust shall have automatic or gravity dampers that close when system is not operating. Sump pump basins should be sealed.	<input type="checkbox"/>	<input type="checkbox"/>
	Attic ventilation	Vented with aperture = 1 sq ft per 300 sq ft ceiling area. Conditioned attics allowed.	<input type="checkbox"/>	<input type="checkbox"/>
	Kitchen & bath ventilation	Per local or state codes	<input type="checkbox"/>	<input type="checkbox"/>
Ductwork & Air Infiltration Control	Duct work	Strongly recommended to be located in conditioned area. If supply and return outside of thermal envelope: R-12 - ducts in floor trusses outside of thermal envelope; R-10 - insulation can be in form of duct wrap or equivalent coverage with building insulation materials. Building cavities cannot be used as supply ducts. Ducts shall be sealed with mastic and mesh or U1-181a aluminum tape.	<input type="checkbox"/>	<input type="checkbox"/>
	House wrap	Required and must be installed per manufacturer's recommendation.	<input type="checkbox"/>	<input type="checkbox"/>
	Sealing	Limit air leakage by sealing: 1) Joints, seams & penetrations 2) Site-built windows, doors & skylights 3) Openings between window & door assemblies & respective jambs & framing 4) Utility penetrations 5) Dropped ceilings or chases adjacent to thermal envelope 6) Knee walls 7) Walls & ceilings separating a garage from conditioned spaces 8) Behind tubs & showers on exterior walls 9) Can lights & bath fan housings 10) Common walls between dwellings 11) Ducts, air handlers, filter boxes, & building cavities used as ducts 12) Other sources of infiltration	<input type="checkbox"/>	<input type="checkbox"/>