

When do you think it would be a good time to build or purchase an ENERGY EFFICIENT HOME?

These examples illustrate the different building components needed for the construction of an ENERGY STAR HOME. The MUEC column demonstrates the home meeting requirements for the Michigan Uniform Energy Code (our current building code). Evaluating the annual heating cost differences clearly show the monetary benefits to building energy wise.

Long term benefits: As fuel costs continue to rise - energy savings increase proportionately.

1200 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 12%		
Building Component	MUEC	ENERGY STAR	ENERGY STAR 1	ENERGY STAR 2
Foundation Walls	UNINSULATED	UNINSULATED	R-6.5 INTERIOR	R-5 EXT. BELOW GRADE
Basement Floor	UNINSULATED	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-19	R-19
Above Grade Walls	2X4 R-13	R-13 / 5.0 CONT	2X4 R-13	R-13 / 2.5 CONT
Windows & Glass Doors	THERMOPANE	LOW E / ARGON	LOW E / ARGON	LOW E / ARGON
Ceiling Insulation	R-30	R-45	R-38	R-38
Furnace AFUE	80%	92%	80%	92%
Heating Capacity (kBtu/hr)	52K	41 K	33 K	33 K
Annual Heating Cost	\$1,413	\$791	\$735	\$823
Prog. Thermostat	NO	YES	NO	NO
Air Conditioner SEER	13	13	13	13
Cooling Capacity (kBtu/hr)	2 TON	1.5 TON	1.5 TON	1.5 TON
Annual Cooling Cost	\$78	\$64	\$71	\$60
Water Heater	.56EF	.62EF/R-5	.60EF	.60EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Building Infiltration	.55 NACH	.35 NACH	.35 NACH	.35 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN	FURNACE FAN
HERS Index	123	85	84	85

*This information is provided by the **Home Energy Analysis Team**. Please contact us for any questions or to request energy related services for new or existing homes.*



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1470 Sq. Ft. Multi-level - Full Basement		Window to Wall Ratio = 15%		
Building Component	MUEC	ENERGY STAR	ENERGY STAR 1	ENERGY STAR 2
Foundation Walls	UNINSULATED	UNINSULATED	R-6.5 INTERIOR	R-5 EXT. BELOW GRADE
Basement Floor	UNINSULATED	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-19	R-19
Above Grade Walls	2X4 R-13	R-13/R-5.0 CONT	2X4 R-13	2X4 R-13
Windows & Glass Doors	THERMOPANE	LOW E / ARGON	LOW E / ARGON	LOW E
Ceiling Insulation	R-30	R-45	R-38	R-38
Furnace AFUE	80%	92%	80%	91%
Heating Capacity (kBtu/hr)	70K	61 K	37 K	413K
Annual Heating Cost	\$1,335	\$828	\$814	\$736
Prog. Thermostat	NO	YES	NO	NO
Air Conditioner SEER	13	13	13	13
Cooling Capacity (kBtu/hr)	3 TON	2.0 TON	2.0 TON	2.0 TON
Annual Cooling Cost	\$121	\$97	\$115	\$124
Water Heater	.56EF	.62EF	.56EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Building Infiltration	.55 NACH	.35 NACH	.35 NACH	.35 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN	FURNACE FAN
HERS Index	122	85	84	84

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1790 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 17%		
Building Component	MUEC	ENERGY STAR	ENERGY STAR 1	ENERGY STAR 2
Foundation Walls	UNINSULATED	UNINSULATED	R-6.5 INTERIOR	R-5 EXT. BELOW GRADE
Basement Floor	UNINSULATED	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-19	R-19
Above Grade Walls	2X4 R-13	R-13/R-5.0 CONT	R-13/R-5.0 CONT	2X4 R-13
Windows & Glass Doors	THERMOPANE	LOW E / ARGON	LOW E	LOW E / ARGON
Ceiling Insulation	R-30	R-45	R-38	R-38
Furnace AFUE	80%	92%	80%	91%
Heating Capacity (kBtu/hr)	87K	61K	46 K	55 K
Annual Heating Cost	\$2,124	\$1,342	\$979	\$1,118
Prog. Thermostat	NO	YES	NO	YES
Air Conditioner SEER	13	13	13	13
Cooling Capacity (kBtu/hr)	3 TON	2.5 TON	2.5 TON	2.5 TON
Annual Cooling Cost	\$131	\$75	\$151	\$116
Water Heater	.56EF	.62EF	.62EF	.60EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Building Infiltration	.55 NACH	.35 NACH	.35 NACH	.35 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN	FURNACE FAN
HERS Index	125	85	83	85

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2237 Sq. Ft. Multi-level - Full Basement		Window to Wall Ratio = 12%		
Building Component	MUEC	ENERGY STAR	ENERGY STAR 1	ENERGY STAR 2
Foundation Walls	UNINSULATED	UNINSULATED	R-6.5 INTERIOR	R-5 EXT. BELOW GRADE
Basement Floor	UNINSULATED	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	R-21	R-30	R-30	N/A
Rim/Band Joist	R-19	R-19	R-19	R-19
Above Grade Walls	2X4 R-13	R-13 / R-2.5 CONT.	2X4 R-13	2X4 R-13
Windows & Glass Doors	THERMOPANE	LOW E / ARGON	LOW E	LOW E
Ceiling Insulation	R-30	R-45	R-38	R-38
Furnace AFUE	80%	80%	80%	80%
Heating Capacity (kBtu/hr)	93K	68 K	57 K	66 K
Annual Heating Cost	\$2,239	\$1,480	\$1,233	\$1,426
Prog. Thermostat	NO	YES	NO	YES
Air Conditioner SEER	13	13	13	13
Cooling Capacity (kBtu/hr)	4 TON	3 TON	3 TON	3 TON
Annual Cooling Cost	\$137	\$121	\$156	\$136
Water Heater	.56EF	.62EF	.56EF	.62EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Building Infiltration	.55 NACH	.35 NACH	.35 NACH	.35 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN	FURNACE FAN
HERS Index	109	85	80	84

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2500 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 15%		
Building Component	MUEC	ENERGY STAR	ENERGY STAR 1	ENERGY STAR 2
Foundation Walls	UNINSULATED	UNINSULATED	R-6.5 INTERIOR	R-5 EXT. BELOW GRADE
Basement Floor	UNINSULATED	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-19	R-19
Above Grade Walls	2X4 R-13	R-13 / R-2.5 CONT.	2X4 R-13	2X4 R-13
Windows & Glass Doors	THERMOPANE	LOW E / ARGON	LOW E / ARGON	LOW E
Ceiling Insulation	R-30	R-45	R-38	R-38
Furnace AFUE	80%	92%	80%	91%
Heating Capacity (kBtu/hr)	112K	78 K	61 K	74 K
Annual Heating Cost	\$2,989	\$1,542	\$1,354	\$1,488
Prog. Thermostat	NO	YES	NO	NO
Air Conditioner SEER	13	13	13	13
Cooling Capacity (kBtu/hr)	5 TON	3.5 TON	3.0 TON	3.5 TON
Annual Cooling Cost	\$225	\$145	\$174	\$188
Water Heater	.56EF	.62EF	.56EF	.62EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Building Infiltration	.55 NACH	.35 NACH	.35 NACH	.35 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN	FURNACE FAN
HERS Index	122	85	85	84

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