

Building Your Home To Meet The Requirements For The 2006-2007 Tax Credits.

These examples illustrate the different building components needed to comply for the Tax Credits. 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%	
Model Type	MUEC	Example 1	Example 2
Foundation Walls	UNINSULATED	ICF R-22/6"	ICF R-22/6"
Slab Floors	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-17
Above Grade Walls	R-13	R-19	ICF R-17/4"
Windows & Glass Doors	U-.53	U-.33	U.46
Ceiling Insulation	R-30	R-38	R-38
Furnace AFUE	80%	94%	91%
Heating Capacity (kBtu/hr)	52K	28 K	22K
Annual Heating Cost	\$1,277	\$453	\$313
Prog. Thermostat	NO	YES	YES
Air Conditioner SEER	13	13	13
Cooling Capacity (kBtu/hr)	2 TON	1.5 TON	1.5 TON
Annual Cooling Cost	\$57	\$119	\$150
Water Heater	.56EF	.62EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Infiltration	.55 NACH	.25 NACH	.15 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN

Note: The above examples illustrate the minimum energy efficient components needed to qualify the home for the current tax credits that are available. These examples are only for providing a insight to the construction components needed to be eligible. An individual assessment of the building project would be required to validate the necessary components needed to comply.

Example 1 shows the foundation built using an ICF wall system. With this application the interior wall would need to be covered with drywall and the above grade exterior wall would require approved finishing materials.

Example 2 shows the foundation and the above grade walls built using an ICF wall system. With this application the foundation interior wall would need to be covered with drywall. The exterior foundation wall that is above grade would require approved finishing materials to protect the foam from being damaged.



Information provided by

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1200 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 12%	
Model Type	MUEC	Example 1	Example 2
Foundation Walls	UNINSULATED	ICF R-22/6"	ICF R-22/6"
Slab Floors	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-17
Above Grade Walls	R-13	R-19	ICF R-17/4"
Windows & Glass Doors	U-.53	U-.33	U.46
Ceiling Insulation	R-30	R-38	R-38
Furnace AFUE	80%	94%	91%
Heating Capacity (kBtu/hr)	52K	28 K	22K
Annual Heating Cost	\$1,277	\$453	\$313
Prog. Thermostat	NO	YES	YES
Air Conditioner SEER	13	13	13
Cooling Capacity (kBtu/hr)	2 TON	1.5 TON	1.5 TON
Annual Cooling Cost	\$57	\$119	\$150
Water Heater	.56EF	.62EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Infiltration	.55 NACH	.25 NACH	.15 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN

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1790 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 17%	
Model Type	MUEC	Example 1	Example 2
Foundation Walls	UNINSULATED	ICF R-22/6"	ICF R-22/6"
Slab Floors	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-17
Above Grade Walls	R-13	R-13/2.5 Cont.	ICF R-17/4"
Windows & Glass Doors	U-.46	U-.33	U-.46
Ceiling Insulation	R-30	R-49	R-38
Furnace AFUE	80%	94%	91%
Heating Capacity (kBtu/hr)	84K	39 K	37K
Annual Heating Cost	\$2,024	\$636	\$539
Prog. Thermostat	NO	YES	YES
Air Conditioner SEER	13	13	13
Cooling Capacity (kBtu/hr)	3.5 TON	2 TON	2 TON
Annual Cooling Cost	\$143	\$166	\$221
Water Heater	.56EF	.56EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Infiltration	.55 NACH	.25 NACH	.15 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN

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Example 1 shows the foundation built using an ICF wall system. With this application the interior wall would need to be covered with drywall and the exterior wall above grade would require approved finishing materials.

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2337 Sq. Ft. Multi-Level - Full Basement		Window to Wall Ratio = 12%	
Model Type	MUEC	Example 1	Example 2
Foundation Walls	UNINSULATED	ICF R-22/6"	ICF R-22/6"
Slab Floors	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	R-21	R-30	N/A
Rim/Band Joist	R-19	R-19	R-17
Above Grade Walls	R-13	R-13/R-2.5 CONT	ICF R-17/4"
Windows & Glass Doors	U-.46	U-.33	U-.46
Ceiling Insulation	R-30	R-49	R-38
Furnace AFUE	80%	94%	92%
Heating Capacity (kBtu/hr)	93K	51K	46K
Annual Heating Cost	\$2,358	\$835	\$689
Prog. Thermostat	NO	YES	YES
Air Conditioner SEER	13	13	13
Cooling Capacity (kBtu/hr)	4 TON	3 TON	2 TON
Annual Cooling Cost	\$180	\$205	\$257
Water Heater	.56EF	.56EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Infiltration	.55 NACH	.25 NACH	.15 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN

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2500 Sq. Ft. Ranch - Full Basement		Window to Wall Ratio = 15%	
Model Type	MUEC	Example 1	Example 2
Foundation Walls	UNINSULATED	ICF R-22/6"	ICF R-22/6"
Slab Floors	UNINSULATED	UNINSULATED	UNINSULATED
Frame Floors	N/A	N/A	N/A
Rim/Band Joist	R-19	R-19	R-17
Above Grade Walls	R-13	R-19/R-2.5 CONT	ICF R-17/4"
Windows & Glass Doors	U-.46	U-.33	U-.46
Ceiling Insulation	R-30	R-49	R-38
Furnace AFUE	80%	94%	92%
Heating Capacity (kBtu/hr)	125K	55 K	51K
Annual Heating Cost	\$2,970	\$864	\$782
Prog. Thermostat	NO	YES	YES
Air Conditioner SEER	13	13	13
Cooling Capacity (kBtu/hr)	5 TON	3.5 TON	3.5 TON
Annual Cooling Cost	\$225	\$248	\$333
Water Heater	.56EF	.56EF	.56EF
Ducts	IN COND. SPACE	IN COND. SPACE	IN COND. SPACE
Infiltration	.55 NACH	.25 NACH	.15 NACH
Ventilation	FURNACE FAN	FURNACE FAN	FURNACE FAN

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