

**CHAPTER 11 OF THE 2015
MICHIGAN RESIDENTIAL CODE
ENERGY EFFICIENCY**

Building Owner: _____ Site Address: _____
 Builder Name: _____
 General Building Description: _____

N1102 - BUILDING ENVELOPE					
If Fenestration Percentage is over 15%, this method cannot be used. See Clarifications for Fenestration Percentage.					
RULE	Values from Table N1102.1 for Zone 2			Yes	No
N1102.1.1	Exterior Walls		R-20 or 13+5		
N1102.1.1.1	Mass Walls	Exterior or Integrated Insulation	R-15/20*		
		Other Mass Walls (Wood)	R-15/20*		
		*Insulation Continuous # / Insulation Cavity #			
N1102.1.1.2	Steel-Frame Walls		R-13 & R-10		
			R-19 & R-9		
			R-25 & R-8		
N1102.1.2	Ceilings "Standard Truss"		R-49		
	12" or larger rafter or Energy Heal Truss where full R-Value can be obtained over wall top plate		R-38		
N1102.1.3	Opaque Doors and Windows (Fenestration)		R-2.85/U-32		
	1 door shall be permitted to be exempt from the U-Factor. Exemption: Up to 1% of total glazing area shall be exempt from U-Factor requirements.				
N1102.1.4	Floors with less than 25% exposed directly to outside air		R-30		
	Floors with more than 25% exposed directly to outside air		R-30		
N1102.1.5	Basement Walls				
	Top of wall down to a maximum of 10' continuous insulation		R-15/19		
	Cavity Insulation		R-11		
N1102.1.6	Slab-on Grade Floors (see Rule for Details)		R-10 @ 4'		
N1102.1.7	Crawl space walls: Vapor barrier required top of walls to 24" below exterior finish grade.		R-15/19*		
N1102.1.11	Recessed Light Fixtures				
	Type IC rated fixture per ASTM E 283 for air leakage				
	Fixture installed inside a sealed box				
N1102.4	Replacement fenestration		U- .35/R-2.85		
	Skylights and roof windows		U- .55/R-1.67		
N1102.5	Additions and window replacement - use values from Table N1102.5				
N1103 - MECHANICAL SYSTEMS					
N1103.1.1 Programmable Thor	Heating and Air Conditioning Equipment Performance				
		Gas fired or oil fired furnace	AFUE 78%		
		Hot water boilers	AFUE 78%		
		Air-Conditioners	12 SEER		
N1103.2.1	Duct Insulation	Within attic space	R-6		
		Outside Building	R-8		
		Walls (Exterior side)	R-8		
N1103.2.2	Duct Sealing - Per Table M1601.3.1				
N1103.4.2	Piping Insulation - Per Table N1103.4.2 R-3 AC Pipe R-4				
N1104 - SERVICE WATER HEATER					
	Water heating appliance and equipment performance - Per Table N1104.1.1 (Shall not have continuously burning pilot)				