

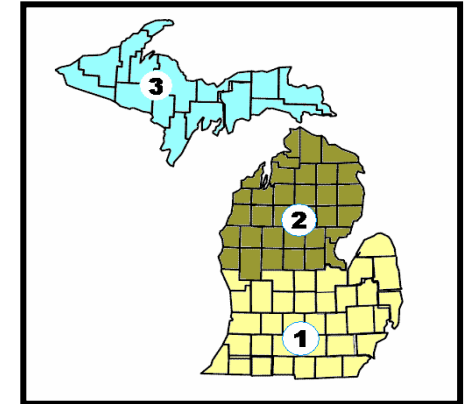
MUEC Building Envelope Requirements

Simplified Prescriptive Paths for Compliance to the 2003 Michigan Uniform Energy Code

Zone ₁		Windows & Insulation			Foundations			
		Window U-factor _{2,3,4}	Ceiling _{5,6}	Walls _{7,8}	Floors ₉	Basement Walls _{10,11}	Slab Perimeter _{12,13}	Crawlspace Walls ₁₄
1	6000-6999 HDD	0.35	R-49	R-21	R-21	R-10 Continuous or R-11 Cavities	R-11, 4 ft	R-20
2	7000-8499 HDD	0.35	R-49	R-21	R-21	R-10 Continuous or R-11 Cavities	R-13, 4 ft	R-20
3	8500-12999 HDD	0.35	R-49	R-21	R-21	R-15 Continuous or R-19 Cavities	R-18, 4 ft	R-20

Notes

- 1 For a list of counties in each zone, refer to the code document or the map at the right.
- 2 Weighted average of all fenestration components
- 3 Up to 1% of total glazing area is exempt from the requirements (ex. Stained glass or glass block accent window)
- 4 U-factor listed is a maximum. Lower U-factors are higher R-values
- 5 Sloped ceiling areas are included in the requirement
- 6 Where standard trusses are used, R-38 shall be permitted above exterior wall top plates
- 7 R-values are the sum of cavity and continuous insulation materials only and do not include other path components
- 8 Special exceptions and considerations are described in the code for non-framed walls (mass walls, log walls, etc)
- 9 Where over 25% of the conditioned floor is exposed directly to outside air.
- 10 When the basement is conditioned: "Space within a building that is provided with heating and/or cooling equipment or systems capable of maintaining, through design or heat loss/gain, 50°F (10°C) during the heating season and 85°F (29°C) during the cooling season, or communicates directly with a conditioned space."
- 11 Required R-value shall be applied from the top of the basement wall to a depth of 10 feet below grade or to the top of the basement floor, whichever is less
- 12 For "slab on grade" only
- 13 The insulation shall extend downward from the top of the slab, or to the bottom of the slab and then horizontally in either direction to the distance listed
- 14 Insulation shall extend downward from the sill plate to the exterior finished grade level and then vertically and/or horizontally a minimum of 24" additional



This interpretation of the prescriptive requirements represents a quick summary for informational purposes only and is not intended to be used for compliance. For full compliance and alternative compliance methods, copies of the full code in its original format may be purchased from the Michigan Department of Energy, Labor, and Economic Growth Bureau of Construction Codes.