

# MICHIGAN UNIFORM ENERGY CODE 2009

**TABLE 402.1.1  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT <sup>a</sup> U-FACTOR	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>f</sup>	FLOOR R-VALUE	BASEMENT <sup>b</sup> WALL R-VALUE	SLAB <sup>c</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>e</sup> WALL R-VALUE
5A	0.35	0.60	38	20 or 13+5 <sup>e</sup>	13/17	30 <sup>d</sup>	10/13	10, 2 ft	10/13
6A	0.35	0.60	49	20 or 13+5 <sup>e</sup>	15/19	30 <sup>d</sup>	15/19	10, 4 ft	10/13
7	0.35	0.60	49	21	19/21	38 <sup>d</sup>	15/19	10, 4 ft	10/13

For SI: 1 foot = 304.8 mm.

- a. The fenestration U-factor column excludes skylights.
- b. The first R-value applies to continuous insulation, the second to framing cavity insulation; either insulation meets the requirement.
- c. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less, in zones 1-3 for heated slabs.
- d. Or insulation sufficient to fill the framing cavity, R-19 minimum.
- e. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25% or less of the exterior, R-5 sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.
- f. The second R-value applies when more than half the insulation is on the interior.

R 408.31063

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I will meet or exceed the minimum required thermal performance.

Sign \_\_\_\_\_ Date \_\_\_\_\_

Note: Compliance can also be demonstrated by any of the following methods.

1. International Energy Code: [www.energycodes.gov](http://www.energycodes.gov) (download REScheck)
2. US EPA Energy Star Homes Program: [www.energystar.gov](http://www.energystar.gov)
3. National Home Energy Rating System: [www.natresent.org](http://www.natresent.org)