

Mussey Township
135 N. Main St.
Capac, Mich. 48014

ENERGY WORKSHEET FOR MICHIGAN UNIFORM ENERGY CODE
ONLY REQUIRED FOR NEW HOME CONSTRUCTION

Job Address: _____ Submitted by: _____

Builder: _____ Phone #: _____

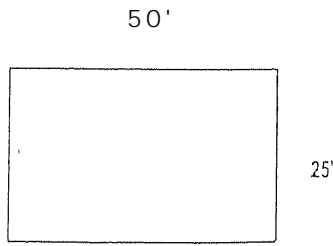
Check method of compliance: Prescriptive _____ Systems Approach _____

Note: Systems Approach method requires an energy analysis comparison report.

- (1) Square feet of exterior wall: _____
- (2) Square feet of fenestration openings (doors & windows): _____
- (3) Percent of fenestration exterior wall opening: _____
- (4) If fenestration opening exceeds 20% of gross exterior wall area, indicate the specific trade-off option that will be used for compliance: _____
- (5) Indicate the percentage of exposed basement wall area (sq. ft. exposed basement wall / sq. ft. of gross area of exterior wall): _____
- (6) Indicate the "R" value & type of insulation proposed for use on basement walls exposed more than 7% of the gross of exterior walls: _____
- (7) Submit documentation for certified or labeled "R" values of all fenestration products including windows, doors & skylights. In addition, submit manufacturer's verification that fenestration products do not exceed .37 cfm of air leakage per lineal feet of sash crack perimeter at air Pressure of 1.56 p.s.f. (25mph) using ASTM-E283 Procedures.
- (8) Indicate the proposed insulation (Include "R" value & thickness):
Walls _____ Heated Slabs _____
Ceiling _____ Unheated Slabs _____
Floors _____ Band Joist _____
Crawl Walls _____
- (9) At time of inspection, the insulation installer shall provide a certificate for Blown-In or Sprayed Insulation that lists the following information:

- | | |
|-----------------------|--------------------|
| (A) Initial Thickness | (C) Coverage Area |
| (B) Settled Thickness | (D) # of Bags Used |

THIS IS AN EXAMPLE FOR PRESCRIPTIVE APPROACH



$$\begin{aligned}
 50' \times 50' \times 25' \times 25' &= 150' \text{ Wall Area} \times 8' \text{ High Wall} &= 1,200 \text{ sq. ft.} \\
 &150' \text{ Bond Area} \times 1' &= \underline{150} \text{ sq. ft.} \\
 &&1,350 \text{ sq. ft.}
 \end{aligned}$$

$$150' \text{ Wall Area} \times 1' 6" \text{ Exposed Basement Wall (not insulated)} = 225 \text{ Sq. ft.}$$

225' divided by 1350 = 17% This number must be smaller than 7%. If not, you must Insulate enough exposed Basement Wall so as to fall below 7% requireme See Table 1074, Zone 1.

Fenestration Area (Doors & Windows) 175 sq. ft.

175 divided by 1350 = 13% If this number is 15% or less, Fenestration Is

R 1.9 See Table 1074, Zone I

Rule 1074. Building component criteria: walls.

- (1) The thermal resistance value (R) of the insulation for the exterior walls and band joists comprising the building envelope above the foundation wall shall not be less than the value specified in table 1074, as follows:
 - (a) R13 for zone 1.
 - (b) R15 for zone 2.
 - (c) R19 for zone 3.
- (2) Table 1074 reads as follows:

Table 1074
Prescriptive Compliance Approach
Building Envelope Insulation Criteria

Building Component	Zone 1	Zone 2	Zone 3
R 408.31074 Walls	R13	R15	R19
R408.31075 Fenestration/openings			
Up to and including 15% gross exterior wall area	R19	R19	R19
Over 15% and including 20% gross exterior	R2.5	R2.5	R2.5
Over 20% gross exterior wall area	Refer to building envelope opening allowance trade off options (R408.31083)		
R 408.31076 Roof/ceiling	R 30	R 38	R 38
Skylights follow fenestration requirements for R values and are limited to 10% of gross roof/ceiling area			
R 408.31077 Floors over unconditional spaces (including overhangs)	R 21	R 30	R 30
R 408.31078 Slab-on-grade-floors			
Unheated Slabs	R 5	R 5	R 5
Heated Slabs	R 10	R 10	R 10
R 408.31079 Crawl space walls	R 5	R 5	R 5
R 408.31080 Finished lower level walls	R 5	R 5	R 5
R 408.31081 Exposed basement walls (more than 7% of the gross exterior wall area)	R 5	R 5	R 5

This document must be supplied to the Building Inspector before a Certificate of Occupancy will be issued.

Insulation Installed Affidavit I hereby certify that the following information is correct per requirements of the Michigan Uniform Energy Code Part 10, effective March 31, 1999.

JOB ADDRESS:

Blown-in or Sprayed Insulation

Walls & Band Joist

R - Value

Manufacturer

- 1) Initial Thickness
- 2) Settled Thickness
- 3) Coverage Area
- 4) # of Bags Used

Ceiling

- 1) Initial Thickness
- 2) Settled Thickness
- 3) Coverage Area
- 4) # of Bags Used

Floor

- 1) Initial Thickness
- 2) Settled Thickness
- 3) Coverage Area
- 4) # of Bags Used

Signature: _____

DATE: _____

Print Name: _____

PHONE: _____