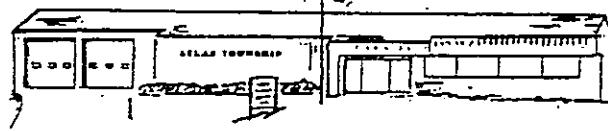


# Township of Atlas

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## Energy Worksheet for Michigan Uniform Energy Code

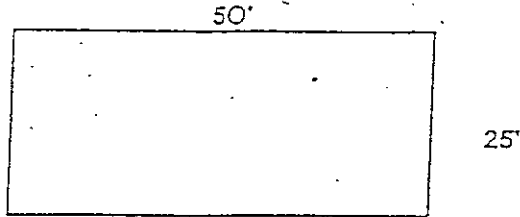
Job Address: \_\_\_\_\_ Submitted by: \_\_\_\_\_  
Builder: \_\_\_\_\_ Phone #: \_\_\_\_\_

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 \_\_\_\_\_
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 and 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 and skylights. In addition, submit manufacturer's verification that fenestration products do not exceed .37cfm 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 and thickness)  
Walls \_\_\_\_\_ Heated Slabs \_\_\_\_\_  
Ceiling \_\_\_\_\_ Unheated Slabs \_\_\_\_\_  
Floors \_\_\_\_\_
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



$$50' \times 50' \times 25' \times 25' = 150' \text{ Wall Area} \times 8' \text{ High Wall} = 1,200 \text{ sq. ft.}$$

$$150' \text{ Bond Area} \times 1' = 150 \text{ sq. ft.}$$

$$1,350 \text{ sq. ft.}$$

$$150' \text{ Wall Area} \times 1' 6'' \text{ Exposed Basement Wall} = 225 \text{ Sq. ft.}$$

(not insulated)

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% requirement. 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 1

- 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
R 408.31075 Fenestration/openings Up to and including 15% gross exterior wall area	R1.9	R1.9	R1.9
Over 15% and including 20% gross exterior wall area	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 Skylights follow fenestration requirements for R values and are limited to 10% of gross roof/ceiling area	R30	R35	R35
R 408.31077 Floors over unconditioned spaces (including outdoor overhangs)	R21	R30	R30
R 408.31078 Slab-on-grade floors Unheated slabs Heated slabs	R5 R10	R5 R10	R5 R10

*We are zone 1*