

Building Owner _____
 Site Address _____

Builder Name _____
 Township _____
 Permit # _____
 Phone _____ Date _____

General Building Description _____

2015 MUEC PRESCRIPTIVE COMPLIANCE APPROACH

Form N1102 (ver. 2.1)

Section	MINIMUM BUILDING ENVELOPE INSULATION CRITERIA				YES	NO
		ZONE 5	ZONE 6	ZONE 7		
N1102.1.1	WALL INSULATION	R-20 ¹	R-20 ¹	R-20 ¹		
N1102.2.1	ROOF / CEILING INSULATION	R-38/30 ⁸	R-49/38 ⁸	R-49/38 ⁸		
	SKYLIGHTS U-VALUE			U= 0.55		
N1102.3.3	FENESTRATION U-VALUE ²			U= 0.32		
N1102.2.7	FLOORS OVER UNCONDITIONED SPACES ³	R-30	R-30	R-38		
N1102.2.9	SLAB-ON-GRADE FLOORS ⁴	R-10/2	R-10/4	R-10/4		
N1102.2.10	CRAWL SPACE WALLS ⁵	CONTINUOUS INSULATION	R-15	R-15	R-15	
		CAVITY INSULATION	R-19	R-19	R-19	
N1102.2.8	BASEMENT WALLS ⁶	CONTINUOUS INSULATION	R-10	R-15	R-15	
		CAVITY INSULATION	R-13	R-19	R-19	
N1103.2.1	DUCTS OUTSIDE THE BUILDING THERMAL ENVELOPE ⁷			R-8		
	WITHIN THE BUILDING BUT OUTSIDE THE CONDITIONED SPACE ⁷			R-6		
N1103.3	HVAC PIPING CARRYING FLUIDS ABOVE 105°F OR BELOW 55°F			R-3		
N1102.4.4	AIR LEAKAGE (Recessed fixtures Type IC air tight or enclosed) All joints/penetrations sealed.					

Applicant Signature _____

License Number _____

CLARIFICATIONS:

- 1) *Alternate - R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 40% or less of the exterior, continous insulation R-value may be reduced by no more than R-3 where structural sheathing is used - to maintain thickness.*
- 2) *Up to 15 ft² of glazed fenestration and 1 side hinged opaque door up to 24 ft² may be exempted. Area-weighted average: $(A_1 \times U_1 + A_2 \times U_2 + \dots + A_n \times U_n) \div 0.32(A_1 + A_2 + \dots + A_n) \leq 1$. Window maximum U-value = 0.48 (Zone 5) and 0.40 (Zones 6 & 7). Skylight maximum U-Value = 0.75. N1102.5*
- 3) *Table value or insulation sufficient to fill the framing cavity. R-19 minimum. Insulation shall be installed to maintain contact with the underside of the subfloor decking.*
- 4) *Exterior exposed vertical surfaces shall be protected a minimum of 6" below grade. The insulation shall extend a minimum of 48 inches below grade or to the bottom of the slab and then horizontally to the interior or exterior for a total of 48 inches. (In Zone 5, insulation shall extend a combined total of 24 inches.) Add R-5 if heated slab.*
- 5) *Crawl space insulation shall extend from the top of the foundation wall to grade and continue to extend at least 24 inches below grade, or a combined vertical and horizontal distance of 24 inches.*
- 6) *Basement insulation: Interior or exterior application extending from top of wall to floor or 10 feet below grade whichever is less.*
- 7) **Exception:** *Portions of the air distribution system located within appliances or equipment.*
- 8) *Second number may be applied when using raised heel truss.*

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N1104.1 (R404.1) Lighting equipment (Mandatory).

Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

HIGH-EFFICACY LAMPS. Compact fluorescent lamps, T-8 or smaller diameter linear fluorescent lamps, or lamps with a minimum efficacy of:

1. 60 lumens per watt for lamps over 40 watts;
2. 50 lumens per watt for lamps over 15 watts to 40 watts; and
3. 40 lumens per watt for lamps 15 watts or less.

Exception: Low-voltage lighting.