Heat Loss Calculation Table for Residential Construction

MANUAL or COMPUTERIZED CALCULATIONS

Contractor/Builder:							Address or Master#:								Date:		
1	Space under consideration						**Crawlspace**		**Basement**		**Main Floor**		**Upper Floor**		**Entire House**	
2	Running perimeter of exterior wall (feet)															
3	Floor area (square feet)															
4	Wall Height (feet)															
TYPE OF EXPOSURE		Material		R	U	ΔT	Area	BTU/hr	Area	BTU/hr	Area	BTU/hr	Area	BTU/hr	Area	BTU/hr
5	Net exposed walls	A.	Concrete earth			25										
		B.	Concrete air			68										
		C.	2x4			68										
		D.	2x6			68										
6	Windows and Glass doors	E.	Window bsmt			68										
		F.	Window other			68										
		G.	Glass door			68										
7	Solid doors	H.				68										
8	Net roof	I.	Flat ceiling			68										
	Skylights	J.				68										
8a	Net roof	Ia	Sloped ceiling			68										
	Pitch in 12															
	Skylights	Ja				68										
9	Floors on grade	K.	Slab insulation			25										
10	Floors / unheated	L.				68										
11	Floors / exterior	M.				68										
12	Building Envelope Heat Loss (Sum rows 5 through 11)							BTU/hr		BTU/hr		BTU/hr		BTU/hr		BTU/hr
13	Infiltration Heat Loss (Row 3 x Row 4 x 0.52)							BTU/hr		BTU/hr		BTU/hr		BTU/hr		BTU/hr
14	Total Heat Loss (Sum Rows 12 and 13)							BTU/hr		BTU/hr		BTU/hr		BTU/hr		BTU/hr
15	Altitude Deration	Caloric deration of natural gas						Output		Output		Output		Output		Total Output
		Multiply Row 14 by:				1.25		BTU/hr		BTU/hr		BTU/hr		BTU/hr		BTU/hr
16	Efficiency Deration	Efficiency of heating equipment						Input		Input		Input		Input		Total Input
		Divide Row 15 by:				%		BTU/hr		BTU/hr		BTU/hr		BTU/hr		BTU/hr