

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 tint			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	1a Sloped ceiling			68										
	Pitch in 12														
	Skylights	2a			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	

Manual J Heat Load Sheet

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Upstryve Inc text.

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Heating and Cooling for Residential Buildings, 1992 **Air-conditioning System Design Manual** Walter T. Grondzik, 2007 The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings

The HVAC Pro's Playbook: A Handy Guide to Systems and

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Graphic Standards Field Guide to Residential Construction Dennis J. Hall,Nina M. Giglio,2011-04-19 A must have reference to more than 100 common residential conditions from accessibility issues to working with zinc Practical information that the architect engineer contractor and homeowner can access quickly with over 230 supporting tables photos and details Identifies frequently used reference standards acceptable practices and other relevant resources Quick reliable answers to your most common on site questions When you re in the field you never know what you ll come across Graphic Standards Field Guide to Residential Construction gives you fast access to the information you need when you re on site and under pressure Presented in a highly visual and easily portable format Graphic Standards Field Guide to Residential Construction is organized by CSI s MasterFormat and is coordinated with the 2009 International Residential Code as well as current sustainable practices It addresses issues pertaining to residential construction by covering every aspect of the process such as the use of materials structural concerns finishes thermal and moisture protection accessible design applications and more Graphic Standards Field Guide to Residential Construction extends beyond the studio with Quick access to essential information wherever you are Graphic Standards quality details accompanied by photographs and tables Illustrations that help you troubleshoot problems along with on the spot solutions Compact format that s easy to reference and carry along Graphic Standards Field Guide to Residential Construction is a handy companion that offers the essential tools that time crunched professionals can turn to in an instant when dealing with clients or when handling the many complex demands surrounding construction management *Federal Register* ,1974-07 The Massachusetts register ,1988

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