

HEATING LOAD CALCULATION SHEET 70 DEGREE DESIGN TEMP DIFFERENCE

Job #:			City:		
Client:			Design Temp:		
Address:			Temp Difference:		
House in square feet:			Volume:		
Exposure	Construction #	HTM	Total area	BTU/H loss	
A: Gross Area	1			X	
Exposed Walls	2			X	
And Partitions	3			X	
	4			X	
B: Glass: Doors	1				
Windows	2				
	3				
	4				
C: Doors	5				
	6				
D: Net Area	1				
Exposed Walls	2				
And Partitions	3				
	4				
E: Ceilings	1				
	2				
F: Floors or Crawl Walls	1				
	2				
G: Infiltration					
CFM50	/ _____	= CFM4	X 1.1	X 70	
H: SUB TOTAL LOSS: Glass, Doors, Net Walls, Ceilings, Floors Or Crawl Walls and Infiltration					
I: DUCTS:	WALL INSULATION				
HEAT LOSS FACTOR	CORRECTION		MULTIPLIER		
J: Total BTU/H Loss—Entire House					

INFILTRATION LOAD:**Exposure**

Stories	1	2	3	4	5
1	11.5	12.4	13.3	14.5	16.3
2	9.0	9.5	10.1	10.8	11.8
3	7.8	8.1	8.6	9.0	9.7

DUCT LOAD: HEAT LOSS FACTOR**LOCATION 1: VENTED ATTIC/ KNEE WALL SPACE****FLOOR AREA OF CONDITIONED SPACE**

SYSTEM TYPE	1000	1500	2000	2500	3000
Trunk & Branch	.16	.19	.20	.22	.24
Radial	.08	.10	.12	.13	.14

WALL INSULATION CORRECTION

WALL R	R-0	R-2	R-4	R-6	R-8
TRUNK/B	NA	1.85	1.24	1.00	0.85
RADIAL	NA	1.99	1.37	1.00	0.87

LOCATION 2: UNCONDITIONED BASEMENT OR CLOSED CRAWL**FLOOR AREA OF CONDITIONED SPACE**

SYSTEM TYPE	1000	1500	2000	2500	3000
Trunk & Branch or Radial	.07	.09	.10	.11	.11

WALL INSULATION CORRECTION

WALL R	R-0	R-2	R-4	R-6	R-8
SCALER	NA	1.74	1.20	1.00	0.89

LOCATION 3: GARAGE**FLOOR AREA OF CONDITIONED SPACE**

SYSTEM TYPE	1000	1500	2000	2500	3000
Trunk & Branch	.26	.30	.34	.36	.41
Radial	.18	.20	.25	.28	.34

WALL INSULATION CORRECTION

WALL R	R-0	R-2	R-4	R-6	R-8
TRUNK/B	NA	2.17	1.31	1.00	0.86
Radial	NA	2.45	1.34	1.00	0.83

LOCATION 4: BELOW SLABFLOOR AREA OF CONDITIONED SPACE

SYSTEM TYPE	1000	1500	2000	2500	3000
Radial	.04	.05	.05	.06	.06

WALL INSULATION CORRECTION (ATTIC RETURN)

WALL R	R-0	R-2	R-4	R-6	R-8
SCALER	NA	1.25	1.07	1.00	0.88