



Building Analysis

Entire House

Badger Radiant Designs

Job: 7012
 Date: Jan 02, 2012
 By: Morgan M. Audetat

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Project Information

For: Smart Customer
 Main St., AnyTown North America

Design Conditions

Location:

Minneapolis-St. Paul, MN, US
 Elevation: 837 ft
 Latitude: 45 °N

Outdoor:

Dry bulb (°F)
 Daily range (°F)
 Wet bulb (°F)
 Wind speed (mph)

Heating

-11
 -
 -
 15.0

Cooling

88
 19 (M)
 71
 7.5

Indoor:

Indoor temperature (°F)
 Design TD (°F)
 Relative humidity (%)
 Moisture difference (gr/lb)

Heating

68
 79
 30
 28.9

Cooling

75
 13
 50
 23.7

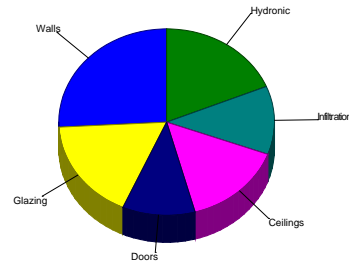
Infiltration:

Method
 Construction quality
 Fireplaces

Simplified
 Tight
 0

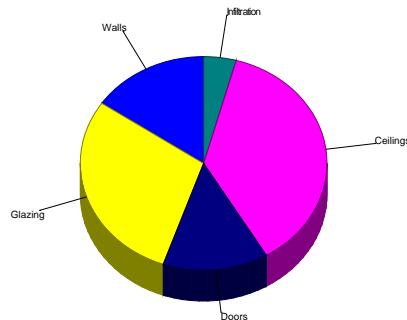
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	4.7	6477	25.9
Glazing	37.1	4381	17.5
Doors	23.6	2729	10.9
Ceilings	1.6	3792	15.1
Floors	0	0	0
Infiltration	1.9	2967	11.8
Ducts		0	0
Piping		4703	18.8
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		25050	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	0.7	967	15.5
Glazing	15.5	1826	29.2
Doors	7.5	864	13.8
Ceilings	1.0	2328	37.2
Floors	0	0	0
Infiltration	0.2	266	4.3
Ducts		0	0
Ventilation		0	0
Internal gains		0	0
Blower		0	0
Adjustments		0	0
Total		6252	100.0

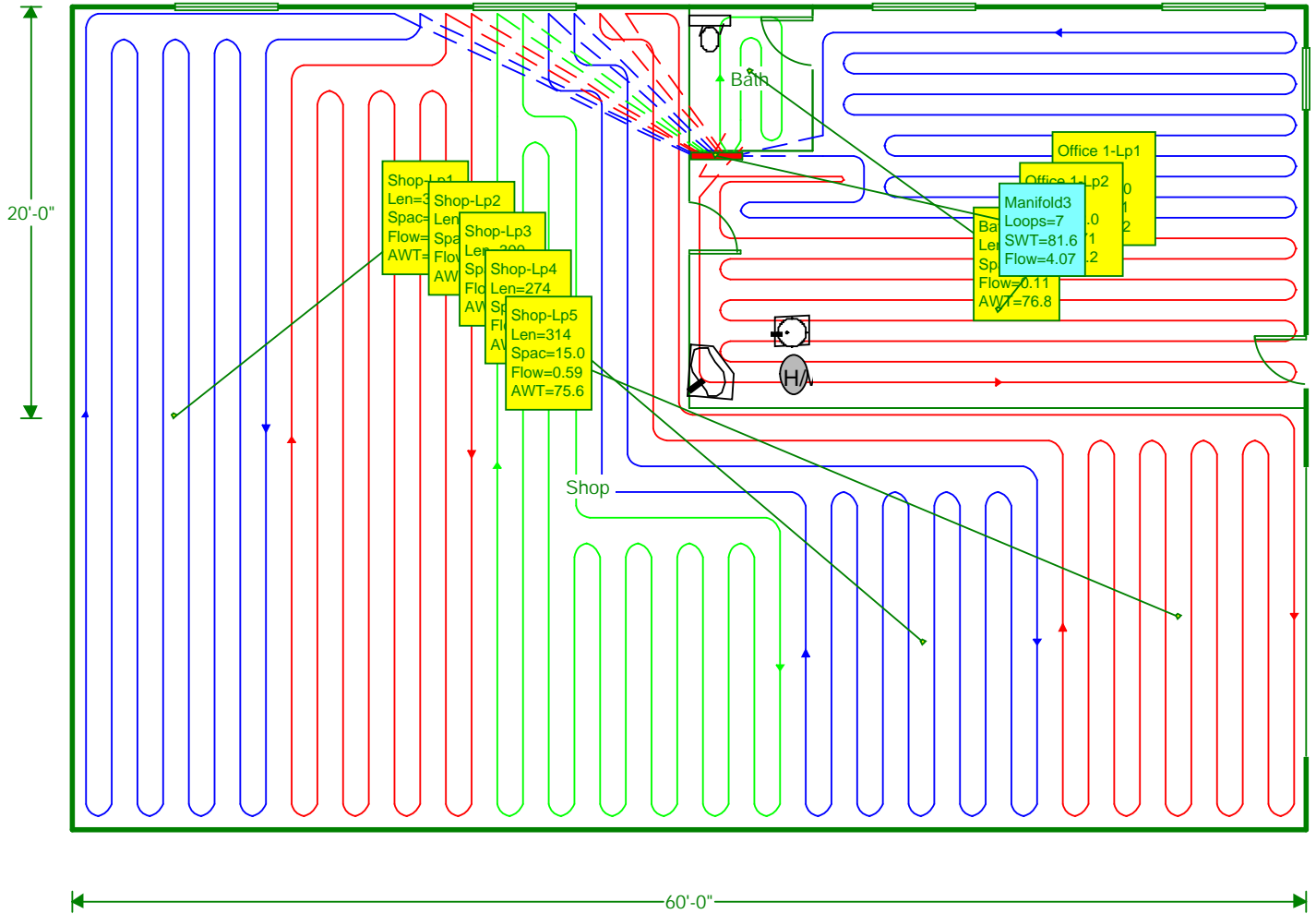


Latent Cooling Load = 300 Btuh
 Overall U-value = 0.034 Btuh/ft²-°F

WARNING: window to floor area ratio = 4.9% - less than 5%.



Level 1



Job #: 7012
Performed by **Morgan M. Audetat** for:
Smart Customer
Main St.
AnyTown North America

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