

Design Indoor Cooling Temp. : 75 °F

Design Indoor Heating Temp. : 40 °F

Design Outdoor Cooling Temp. : 84 °F

Design Outdoor Heating Temp. : -1 °F

Temp. Difference Cooling : 9°F

Area: Alpena Airport, MI

Temp. Difference Heating : 41° F

Indoor Humidity: 50 Grains difference: 19

Front Door Orientation West

Whole House Block Load

TD:Cool:9°F Heat:41°F	Sq. ft. -types 1 and 2	shading	Sq. ft. - types 1 and 2	shading	Sq. ft. - types 1 and 2	Sq. ft.
Outside Wall: North	1: 95 2:	Windows →	1: 6 2:	Glass Doors x	1: 2: Doors	
Outside Wall: South	1: 95 2:	Windows [v]	1: 12 2:	Glass Doors [v]	1: 2: Doors	
Outside Wall: E & W	1: 350 2:	Windows [v]	1: 12 2:	Glass Doors [v]	1: 20 2: Doors	
Outside Wall: NE & NW	1: 2: Doors	Windows →	1: 2: Doors	Glass Doors x	1: 2: Doors	
Outside Wall: SE & SW	1: 2: Doors	Windows [v]	1: 2: Doors	Glass Doors [v]	1: 2: Doors	
Floor - (linear ft. if slab)	1: 200 2:	Ceiling	1: 203 2:	Appliances	Fireplaces 0	
Sky Lights	N: S: E-W: NE-NW: SE-SW:					
Number of People	2	Conditioned Sq. ft.	200	Cubic Ft.	2129	

Basement	Above grade: walls	Cubic Ft.	Below grade: walls	Floor	sq. ft. width 23ft. or	below: 2 ft.
Fresh air recommended: 32cfm → 32 CFM		Construction: good	Total Bedrooms:	Duct system: condition		
Calculate Load		Total Btu's Cooling 4694	Sensible Load 3795	Latent Load 899	Total Btu's Heating 5852	

Btu breakdown

	Sensible	Latent	Heating
walls	550		1728
windows	1166		701
ceilings	486		633
doors	0		0
floors	32		287
appliances	0		
people	460	400	
glass doors	720		467
skylights	0		0
basement walls	0		0
basement floor	0		0
infiltration	75	98	636
fresh air	307	401	1400
duct load	0	0	0
Totals	3795	899	5852

Structure types

Outside Walls 1: Siding or Stucco R15 insulation
 Outside Walls 2:
 Windows 1: double pane no internal shade
 Windows 2:
 Glass Doors 1: double pane slider - blinds
 Glass Doors 2:
 Floors 1: open crawl or garage R-30 insulation
 Floor 2:
 Ceiling 1: Ceiling under roof joists R-13
 Ceiling 2:
 Doors: Wood solid core
 Skylights:
 Basement Walls:
 Basement Floor:
 Win ht.: 5' 0" Overhang: 1.5' Top to overhang: 2'