

Design Indoor Cooling Temp.: 75 °F
 Design Outdoor Cooling Temp.: 86 °F
 Temp. Difference Cooling :11°F
 Indoor Humidity: 50 ▾ Grains difference: 33

Design Indoor Heating Temp.: 70 °F
 Design Outdoor Heating Temp.: 6 °F
 Temp. Difference Heating :64°F

Area: Cleveland Airport, OH
 Front Door Orientation: North ▾

Whole House Load Calculator

ID	Cool:11°F	Heat:64°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	1:450	2:	Windows x	1:50	2:	Glass Doors x	1:26	Doors
Outside Wall: South	1:450	2:	Windows ▾	1:95	2:	Glass Doors ▾	1:26	Doors
Outside Wall: E & W	1:1360	2:	Windows ▾	1:110	2:	Glass Doors ▾	1:26	Doors
Outside Wall: NE & NW	1:	2:	Windows x	1:	2:	Glass Doors x	1:26	Doors
Outside Wall: SE & SW	1:	2:	Windows ▾	1:	2:	Glass Doors ▾	1:26	Doors
Sky Lights	N:	S:	E-W: 24	NE-NW:	SE-SW:			
Floor - (linear ft. if slab)	1:1500	2:	Basement	(Walls-above grade: 250	below grade: 650	sq. ft.		
Ceiling	1:750	2:750	Basement	Floor = 730	width 23ft. or ▾	feet below grade: 8 ft. ▾		
Number of Appliances	5	Fireplaces 1 ▾						
Number of People	4	Fresh air	recommended: 420cfm →	420	CFM			
Conditioned - Sq. ft.:	1900	Cubic Ft.:	90000	Construction:	very tight ▾	Duct system:	conditio ▾ R-8 ▾	very tight ▾
Calculate Load	Total Btu's Cooling		Sensible Load		Latent Load		Total Btu's Heating	
	48487		36259		12228		98260	

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Btu breakdown

	Sensible	Latent	Heating
walls	608		6079
windows	10666		9302
ceilings	3488		5856
doors	393		1198
floors	1822		11647
appliances	6000		
people	920	800	
glass doors	0		0
skylights	3720		1644
basement walls	2480		18624
basement floor	0		888
infiltration	1232	2286	14340
fresh air	4930	9142	28681
duct load	0	0	0
Totals	36259	12228	98260

Structure types

Outside Walls 1: Siding or Stucco R21 insulation w/R6 board
 Outside Walls 2:
 Windows 1: double pane no internal shade
 Windows 2:
 Glass Doors 1:
 Glass Doors 2:
 Floors 1: closed or vented crawl tile no insulation
 Floor 2:
 Ceiling 1: Ceiling under attic space R-25
 Ceiling 2: Ceiling under roof joists R-11
 Doors: Metal with storm
 Skylights: skylight double pane 45 degree angle
 Basement Walls: block brick or concrete - no insulation
 Basement Floor: R3 or higher insulation
 Win ht.: 5' 0" Overhang: 1.5' Top to overhang: 1.5'