

Design Indoor Cooling Temp. : 75 °F

Design Indoor Heating Temp. : 70 °F

Design Outdoor Cooling Temp. : 88 °F

Design Outdoor Heating Temp. : 10 °F

Temp. Difference Cooling : 13°F

Area: Santa Fe County, NM

Temp. Difference Heating : 60°F

Indoor Humidity: 50 Grains difference: -25

Front Door Orientation South West

Room by room load - Number of rooms: 7

Room 1: Kitchen/Living

Table with 8 columns: TD/Cool/Heat, Sq. ft. types, shading, Sq. ft. types, shading, Sq. ft. types, Sq. ft. Includes rows for Outside Wall (North, South, E & W, NE & NW, SE & SW), Floor, Sky Lights, and Number of People.

Summary table for Room 1: Kitchen/Living showing Btu's Cooling (8841), Sensible Load (8641), Latent Load (200), Btu's Heating (16747), CFM heating (0), and CFM cooling.

Room 2: Master Bedroom

Table with 8 columns: Outside Wall (North, South, E & W, NE & NW, SE & SW), Floor, Sky Lights, and Number of People.

Summary table for Room 2: Master Bedroom showing Btu's Cooling (3073), Sensible Load (2873), Latent Load (200), Btu's Heating (7774), CFM heating (0), and CFM cooling (0).

Room 3: Bedroom

Table with 8 columns: Outside Wall (North, South, E & W, NE & NW, SE & SW), Floor, Sky Lights, and Number of People.

Summary table for Room 3: Bedroom showing Btu's Cooling (1907), Sensible Load (1707), Latent Load (200), Btu's Heating (5580), CFM heating (0), and CFM cooling (0).

Room 4: Office/Guest

Table with 8 columns: Outside Wall (North, South, E & W, NE & NW, SE & SW), Floor, Sky Lights, and Number of People.

Summary table for Room 4: Office/Guest showing Btu's Cooling (1795), Sensible Load (1595), Latent Load (200), Btu's Heating (4689), CFM heating (0), and CFM cooling (0).

Room 5: Hall

Table with 8 columns: Outside Wall (North, South, E & W), Floor, Sky Lights, and Number of People.

Outside Wall: NE & NW	I: <input type="text"/> 2: <input type="text"/>	Windows x	1: <input type="text"/> 2: <input type="text"/>	Glass Doors x	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: SE & SW	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Floor - (linear ft. if slab)	1: 40 2: <input type="text"/>	Ceiling	1: 53.35 2: <input type="text"/>	Appliances	<input type="text"/>	Fireplaces	0 <input type="text"/>
Sky Lights	N: <input type="text"/> S: <input type="text"/>	E-W: <input type="text"/>	NE-NW: <input type="text"/>	SE-SW: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of People	<input type="text"/>	Conditioned Sq. ft.	53.35	Cubic. Ft.	373.46	<input type="text"/>	<input type="text"/>

Rm 5: Hall	Btu's Cooling 809	Sensible Load 809	Latent Load 0	Btu's Heating 3368	CFM heating 0	CFM cooling 0
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Room 6: Guest Bathroom

Outside Wall: North	I: <input type="text"/> 2: <input type="text"/>	Windows x	1: <input type="text"/> 2: <input type="text"/>	Glass Doors x	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: South	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: E & W	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: NE & NW	I: <input type="text"/> 2: <input type="text"/>	Windows x	1: <input type="text"/> 2: <input type="text"/>	Glass Doors x	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: SE & SW	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Floor - (linear ft. if slab)	1: 30.66 2: <input type="text"/>	Ceiling	1: 58.05 2: <input type="text"/>	Appliances	<input type="text"/>	Fireplaces	0 <input type="text"/>
Sky Lights	N: 4 S: <input type="text"/>	E-W: <input type="text"/>	NE-NW: <input type="text"/>	SE-SW: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of People	<input type="text"/>	Conditioned Sq. ft.	58.05	Cubic. Ft.	464.4	<input type="text"/>	<input type="text"/>

Rm 6: Guest Bathroom	Btu's Cooling 1416	Sensible Load 1416	Latent Load 0	Btu's Heating 2873	CFM heating 0	CFM cooling 0
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Room 7: Master Bathroom

Outside Wall: North	I: <input type="text"/> 2: <input type="text"/>	Windows x	1: <input type="text"/> 2: <input type="text"/>	Glass Doors x	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: South	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: E & W	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: NE & NW	I: 78 2: <input type="text"/>	Windows x	1: <input type="text"/> 2: <input type="text"/>	Glass Doors x	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Outside Wall: SE & SW	I: <input type="text"/> 2: <input type="text"/>	Windows <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Glass Doors <input type="text"/>	1: <input type="text"/> 2: <input type="text"/>	Doors	<input type="text"/>
Floor - (linear ft. if slab)	1: 28 2: <input type="text"/>	Ceiling	1: 43.94 2: <input type="text"/>	Appliances	<input type="text"/>	Fireplaces	0 <input type="text"/>
Sky Lights	N: <input type="text"/> S: <input type="text"/>	E-W: <input type="text"/>	NE-NW: <input type="text"/>	SE-SW: <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number of People	<input type="text"/>	Conditioned Sq. ft.	43.94	Cubic. Ft.	351.5	<input type="text"/>	<input type="text"/>

Rm 7: Master Bathroom	Btu's Cooling 894	Sensible Load 894	Latent Load 0	Btu's Heating 2958	CFM heating 0	CFM cooling 0
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Basement Above grade: Walls	Cubic Ft.	Below grade: walls	Floor	sq. ft. width 23ft. or <input type="text"/>	below: 2 ft. <input type="text"/>
Basement - Btu's Cooling: 0		Btu's Heating: 0		CFM Heating: 0	
Fresh air recommended: 38cfm → <input type="text"/> CFM		Construction: good <input type="text"/>		Duct system: <input type="text"/>	
Calculate Load	Total Btu's Cooling 18735	Total Sensible Load 17935	Total Latent Load 800	Total Btu's Heating 43989	Total CFM Heating <input type="text"/>
				Total CFM Cooling <input type="text"/>	

Btu breakdown

	Sensible	Latent	Heating
walls	892		4317
windows	3461		2729
ceilings	967		2902
doors	164		468
floors	0		27117
appliances	2400		
people	920	800	
glass doors	5742		1188
skylights	3020		1284
basement walls	0		0
basement floor	0		0
infiltration	369	0	3984
fresh air	0	0	0
duct load	0	0	0
Totals	17935	800	43989

Structure types

- Outside Walls 1: Siding or Stucco R19 insulation
- Outside Walls 2:
- Windows 1: Low E or triple pane no internal shade
- Windows 2: Low E or triple pane no internal shade
- Glass Doors 1: double pane french door
- Glass Doors 2:
- Floors 1: Concrete slab no edge insulation
- Floor 2:
- Ceiling 1: Ceiling under roof joists R-30
- Ceiling 2:
- Doors: Wood solid core
- Skylights: skylight double pane flat
- Basement Walls:
- Basement Floor:
- Win ht.: 4' 6" Overhang: 4' Top to overhang: 1.5'