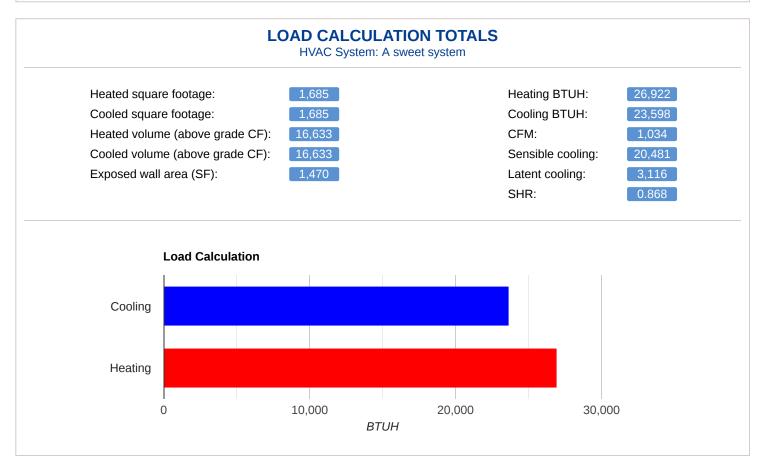


Project Name: A nice old house in the hot Florida sun

Address: 3902 Palazzo Street, Sebring, FL

OUTDOOR DESIGN CONDITIONS Weather station: Lakeland CO Summer Outdoor F: 91 Summer Indoor F: 75 Design Grains: 47 Daily Range: Medium Winter Outdoor F: 41 Winter Indoor F: 70 Cooling RH: 50 Elevation (Ft): 214



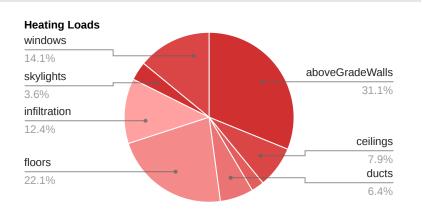
Approved ACCA MJ8 Calculations

Calculations are based on the ACCA Manual J 8th Edition and are approved by ACCA. All computed calculations are estimates on building use, weather data, and inputted values such a R-Values, window types, duct loss, etc. Equipment selections should meet both the latent and sensible gain as well as building heat loss.

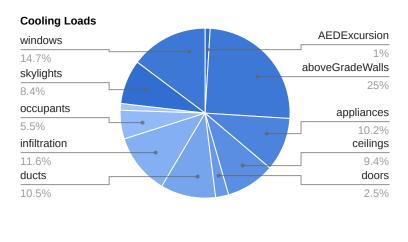


HEATING AND COOLING LOADS

HEATING LOADS								
SECTION AREA HEAT LOSS								
aboveGradeWalls	1,579.8	8,384						
ceilings	1,673.4	2,135						
doors	48	654						
ducts	0	1,714						
floors	1,685.4	5,955						
infiltration	0	3,338						
skylights	12	957						
windows	150	3,785						
Totals		26,922						

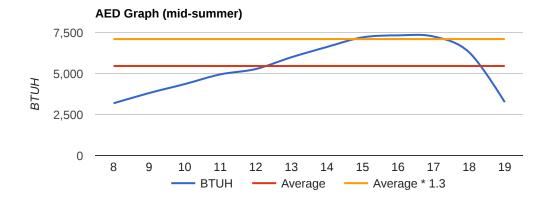


COOLING LOADS										
SECTION	AREA	SENSIBLE	LATENT							
AEDExcursion	0	227	0							
aboveGradeWalls	1,579.8	5,910	0							
appliances	0	2,400	0							
ceilings	1,673.4	2,209	0							
doors	48	587	0							
ducts	0	2,018	456							
floors	1,685.4	0	0							
infiltration	0	969	1,760							
occupants	0	690	600							
plants	0	0	300							
skylights	12	1,993	0							
windows	150	3,479	0							
Totals		20,481	3,116							

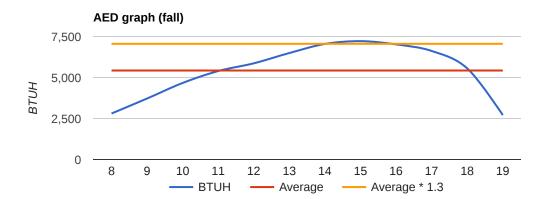


FENESTRATION LOADS

Warning (0): This application has glass areas that produced relatively large cooling loads for part of the day. Zoning may be required to overcome spikes in solar load for one or more rooms. A zoned system may be required, or some rooms may require zone control (provided by individual, motorized, thermostatically controlled dampers).



This graph represents hourly aggregrate fenestration loads in mid-summer.



This graph represents hourly aggregrate fenestration loads in October.

COMPONENT LOADS

ABOVE GRADE WALLS										
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	N	Heating BTUH:	454				
	U Value:	0.183	Area:	85.5	Cooling BTUH:	272				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	E	Heating BTUH:	472				
	U Value:	0.183	Area:	88.9	Cooling BTUH:	283				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	W	Heating BTUH:	476				
	U Value:	0.183	Area:	89.6	Cooling BTUH:	285				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	N	Heating BTUH:	770				
	U Value:	0.183	Area:	145	Cooling BTUH:	462				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	N	Heating BTUH:	763				
	U Value:	0.183	Area:	143.8	Cooling BTUH:	458				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	E	Heating BTUH:	1,502				
	U Value:	0.183	Area:	283	Cooling BTUH:	901				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	S	Heating BTUH:	1,635				
	U Value:	0.183	Area:	308	Cooling BTUH:	1,860				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	S	Heating BTUH:	785				
	U Value:	0.183	Area:	148	Cooling BTUH:	471				
Map trace wall Block Wall, None framing, None cavity insulation, Stucco or Siding.	Construction nr:	13AB-0fc s	Exposure:	W	Heating BTUH:	1,528				
	U Value:	0.183	Area:	288	Cooling BTUH:	917				

BELOW GRADE WALLS

There are no components for this section.

WINDOWS									
Default medium windows for wall id 75836 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 48 N	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	1,211 970			
Default small windows for wall id 75836 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 18 N	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	454 364			
Default medium windows for wall id 75837 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 E	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	303 441			

WINDOWS									
Default medium windows for wall id 75835 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 W	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	303 497			
Default medium windows for wall id 75834 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 24 N	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	606 485			
Default medium windows for wall id 75832 Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 36 S	U Value: SHGC:	0.87 0.67	Heating BTUH: Cooling BTUH:	908 722			

Window cooling BTUHs shown here are daily average values. See AED graphs for details of fenestration loads during the day.

CEILINGS									
Map trace generated ceiling Ceiling under attic or attic knee wall, Asphalt shingles, Light, R-21.	Construction nr: U Value:	16DR-21 al 0.044	Area: 2	220.8	Heating BTUH: Cooling BTUH:	282 291			
Map trace generated ceiling Ceiling under attic or attic knee wall, Asphalt shingles, Light, R-21.	Construction nr: U Value:	16DR-21 al 0.044	Area: 1	L,452.6	Heating BTUH: Cooling BTUH:	1,854 1,917			

SKYLIGHTS									
Default skylight(s) for ceiling id 23438. Flat, Clear glass, Double pane.	Construction nr:	8Bc-5"	Exposure: Area:	W 12	Heating BTUH: Cooling BTUH:	957 1,993			

Skylight cooling BTUHs shown here are daily average values. See AED graphs for details of fenestration loads during the day.

DOORS								
Default doors for wall id 75836	Construction nr:	11	Area:	24	Heating BTUH:	327		
Wood Door, Hollow Core.	U Value:	0.47	Exposure:	N	Cooling BTUH:	293		
Default doors for wall id 75832	Construction nr:	11	Area:	24	Heating BTUH:	327		
Wood Door, Hollow Core.	U Value:	0.47	Exposure:	S	Cooling BTUH:	293		

FLOORS CONTROL OF THE PROPERTY									
Map trace generated floor Concrete slab on grade floor.	Construction nr: Area:	22A-ph 220.8	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	1,654 0 1.358				
Map trace generated floor Concrete slab on grade floor.	Construction nr: Area:	22A-ph 1,464.6	Heating U Value:0 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	4,301 0 1.358				

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There are no components for this section.

OT Y				

There are no components for this section.

	DUCTS			
System generated ducts (above conditioned space) Attic - Radial	EHLF:	0.068	Heating BTUH:	1,714
	ESGF:	0.111	Sensible BTUH:	2,018
	ELG:	456	Latent BTUH:	456

	INFILTRATION	
Leakage Category: Average	NCFM Heating: 105 NCFM Cooling: 55	Heating BTUH: 3,338 Sensible BTUH: 969 Latent BTUH: 1,760

BLOWER MOTOR

There are no components for this section.

WINTER HUMIDIFICATION

There are no components for this section.

OCCUPANTS					
Nr. Occupants:	3	Sensible BTUH:	690	Latent BTUH:	600

APPLIANCES				
Standard kitchen and utility room, lighting: 2,400 BTUH	Quantity:	Sensible BTUH: Latent BTUH:	2,400	

PLANTS					
Plant Size:	small	Quantity:	5	Latent BTUH:	50
Plant Size:	medium	Quantity:	5	Latent BTUH:	100
Plant Size:	large	Quantity:	5	Latent BTUH:	150

