

Project Information

Project #: _____ Notes: _____
 Name: _____ ine
 Location: _____ Lincoln NE

Outdoor Conditions

Location: Lincoln Municipal AP, Nebraska
 Elevation: 1188'
 Latitude: 41
 Heating: 0.0 °F
 Cooling: 94.0 °F
 Daily Range: Medium
 Wet Bulb: 74.0 °F

Infiltration

Method: Maximum ACH50
 Stories: 2
 Exposure Category: Three or Four Exposures
 Wind Shielding: 4 - Mostly Shielded Exposures
 Max ACH50: 2.50
 Net Air Changes (H/C): 0.08/0.00
 Net Flow (H/C): 29 cfm/0 cfm

Indoor Conditions

Room Temp: 68 °F
 Design Temp Diff: 68.0 °F
 Humidity: 35
 Moisture Diff (Grains): 32.2

Ventilation

Num Occupants: 7
 Type: Outside Air
 ACH: 0.23
 Outside Air: 79 cfm
 Other Exhaust: 0 cfm

Floorplan/Levels

Basement: 1,084 ft²
 Main Floor: 1,381 ft²
 Total Heated Area: 2,465 ft²
 Total Cooled Area: 2,465 ft²

Total Heating: 34,331 Btu/hr
Total Sensible: 13,663 Btu/hr
Total Latent: 3,677 Btu/hr

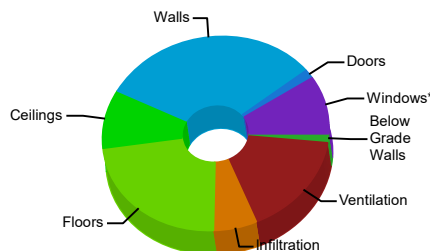
Load Breakdown

Name	Heating	Sensible	Latent
Windows*	3,331	1,631	
Skylights*	0	0	
Doors	521	260	
Walls	10,811	3,892	
Below Grade Walls	523		
Ceilings	3,318	2,021	
Floors	7,984	217	
Infiltration	2,119	0	0
Internal		3,160	2,000
Other	0		
Duct Loads	0	0	0
Ventilation	5,725	1,600	1,677
Humidification	0		
Piping Load	0		
Radiant Back Loss	0		
Blower Heat		512	
AED*		371	
Total	34,331	13,663	3,677
Total Area	2,465 ft²	2,465 ft²	

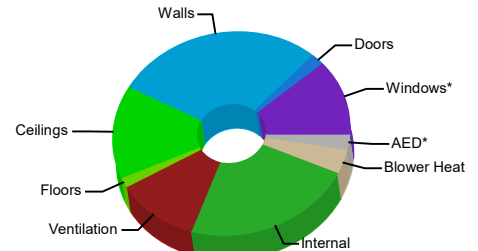
*Average Load Procedure

Heating ΔT: 20.0 JSHR: 0.79
 Cooling ΔT: 22.0 MJ8 Tons: 1.45
 Est. Heating CFM²: 1350 SqFt/Ton: 1706
 Est. Cooling CFM²: 495 CFM/SqFt: 0.20

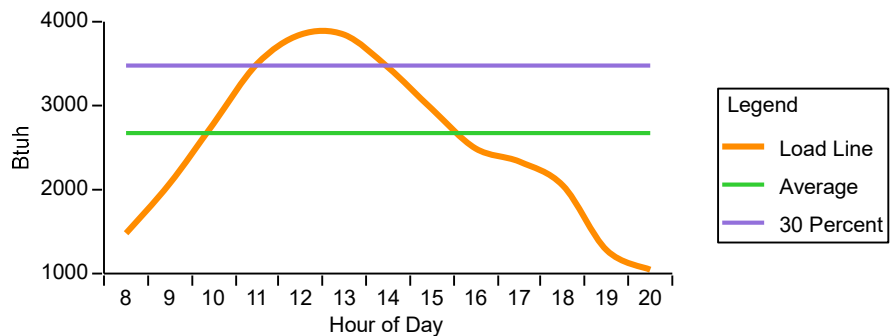
Heating Load Breakdown



Sensible Load Breakdown



Fenestration Load vs Hour of Day - Block Load (Summer)



Average Load: 2,673 Btu/hr
 Excursion Limit: 3,475 Btu/hr

Peak Load: 3,846 Btu/hr
 AED Load: 371 Btu/hr

(1) ΔT: Difference between supply air and return air (2) Estimated air flow based on specified supply air ΔT

Length = ft Area = ft² Temperature = °F Flowrate = USGPM Air Flow = cfm Heat Loss = Btu/hr
 Unit Heat Loss = Btu/(hr-ft²) Rv = hr-ft²·°F/btu Head Loss = ft water RH = Radiant Floor Heating
 BB = Baseboard FA = Forced Air OTH = Other Heating SM = Snowmelt N = Not Heated

Warnings

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).

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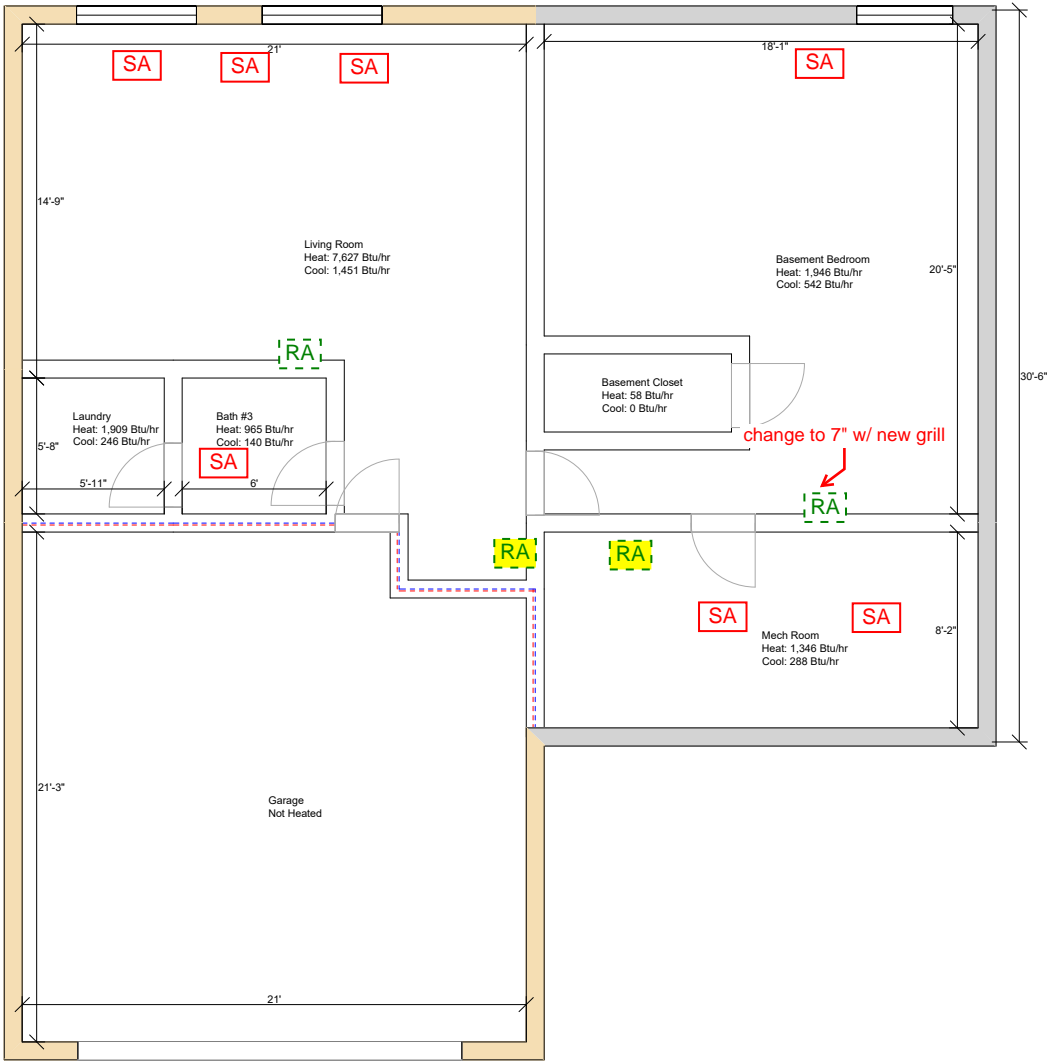
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Created Using HeatCAD 2021 (1/1/2022)
 Version:21.0.0780 R (Trial)

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PROJECT: _____

CUSTOMER: _____

PROJECT NO.: _____

SCALE:
1/8"=1'

DRAWING NAME:
Basement

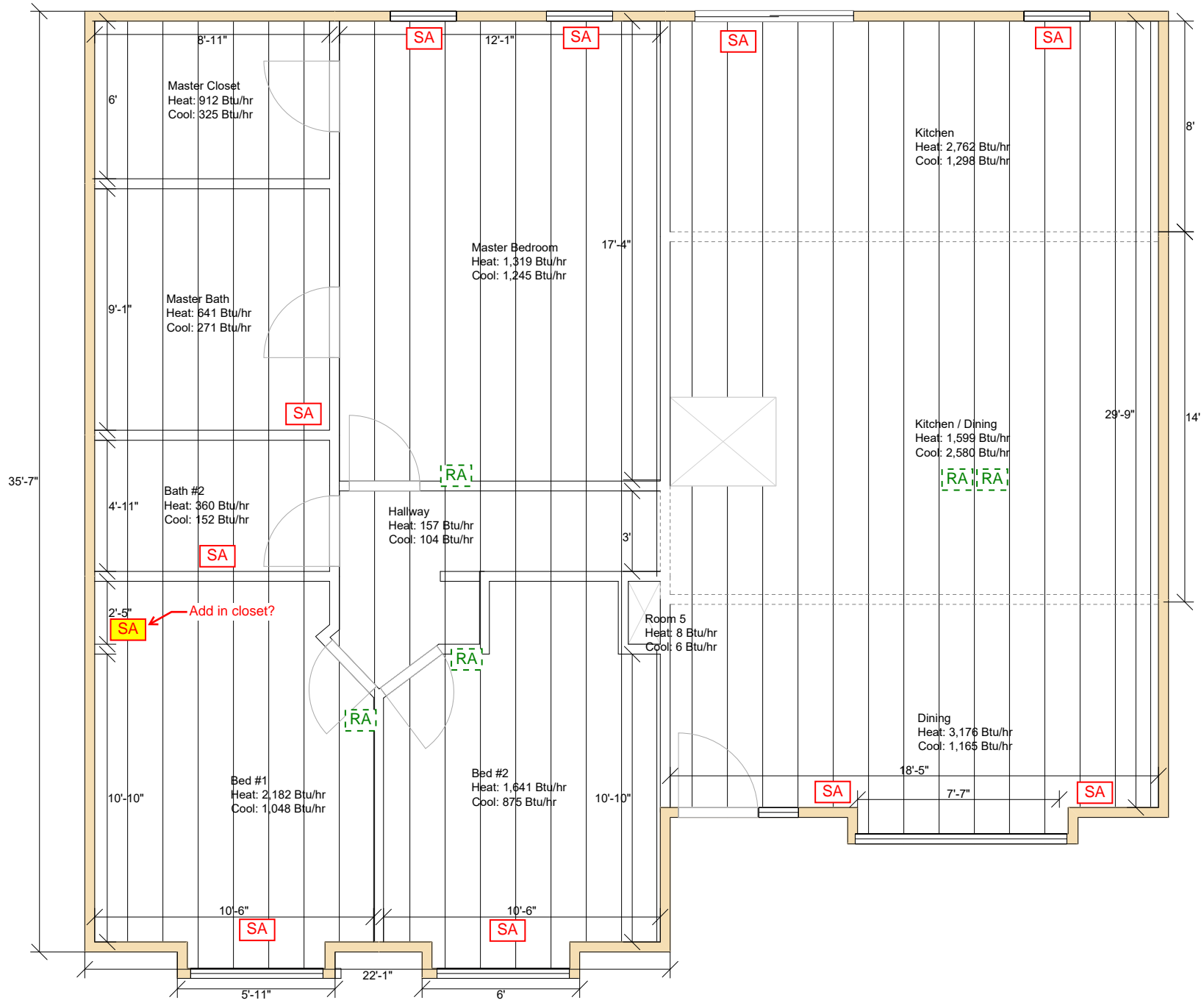
DRAWN BY: _____

DATE:
12/31/2021

REVISIONS

No	Desc	Date

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PROJECT: _____ CUSTOMER: _____

PROJECT NO.: _____

SCALE:
3/16"=1'

DRAWING NAME:
Main Floor

DRAWN BY: _____

DATE:
12/31/2021

REVISIONS

No	Desc	Date

Project Information

Project #: _____ Notes: _____
 Name: line
 Location: Lincoln NE

Manual J Load Summary

Total Heating: 34,331 Btu/hr Total Sensible: 13,663 Btu/hr Total Latent: 3,677 Btu/hr

Outdoor Conditions

Location: Lincoln Municipal AP, Nebraska
 Elevation: 1188'
 Latitude: 41
Heating **Cooling**
 Dry Bulb: 0.0 °F 94.0 °F
 Daily Range: Medium
 Wet Bulb: 74.0 °F

Indoor Conditions

	Heating	Cooling
Room Temp:	68 °F	75 °F
Design Temp Diff:	68.0 °F	19.0 °F
Humidity:	35	50
Moisture Diff (Grains):		32.2

Infiltration

Method: Maximum ACH50
 Stories: 2
 Exposure Category: Three or Four Exposures
 Wind Shielding: 4 - Mostly Shielded Exposures
 Max ACH50: 2.50
 Net Air Changes (Heat/Cool): 0.08 / 0.00
 Net Flow (Heat/Cool): 29 cfm / 0 cfm

Ventilation

Num Occupants:	7	
	Heating	Cooling
Type:	Outside Air	Outside Air
ACH:	0.23	0.23
Outside Air:	79 cfm	79 cfm
Other Exhaust:	0 cfm	0 cfm

Floorplan/Levels

Basement	1,084 ft ²	Total Heated Area:	2,465 ft ²
Main Floor	1,381 ft ²	Total Cooled Area:	2,465 ft ²

(1) ΔT: Difference between supply air and return air (2) Estimated air flow based on specified supply air ΔT
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 Head Loss = ft water RH = Radiant Floor Heating BB = Baseboard FA = Forced Air OTH = Other Heating SM = Snowmelt N = Not Heated

Project #:

Constructions

Walls

Code	Description	R-Value	Area	Heating	Cooling
Basement Brick		19.6	169	587	263
Basement Mech Wall		25.0	55	140	57
Basement Mech Wall		25.0	46	126	57
B1	Basement Wall	39.5	188	324	112
2x4 GWB Garage		11.2	203	1,140	467
2x4 Vinyl Siding	2x4, R-13 w/ R1.2 blackjack sheathing & Vinyl Siding	12.8	1,599	8,494	2,935

Below Grade Walls

Code	Description	R-Value	Area	Heating	Cooling
Basement Brick (4 ft)		19.6	75	187	0
Basement Brick (2 ft)		19.6	125	336	0

Doors

Code	Description	R-Value	Area	Heating	Cooling
11O	Metal Door with Polystyrene Core with Storm	4.8	18	235	134
11O	Metal Door with Polystyrene Core with Storm	4.8	20	286	126

Floors

Code	Description	R-Value	Area	Heating	Cooling
21A-24p		1.5	592	1,007	0
22A-0p	22A - No Edge Insulation, No insulation Below Floor, any Floor Cover	0.0	61'-5" (P)	5,671	0
22A-2p	22A - No Edge Insulation, No insulation Below Floor, any Floor Cover	1.5	6'-9" (P)	623	0
Garage Ceilingp	includes carpet Value	28.5	309	682	217

Ceilings

Code	Description	R-Value	Area	Heating	Cooling
Attic - Cellulose (11")	11" thick, R-36.8	36.9	812	1,498	1,190
Baseline Attic	R-38 cellulose (11" settled height)	36.4	260	486	243
Vaulted Ceilings	Ceiling Below Roof Joists; R-18.5 Insulation; Roof Material: Asphalt Shingles; Roof Color: Dark;	16.9	331	1,334	589

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Project #:

Glazing

Windows

Code	Description	Exposure	R-Value	SHGC	Area	Heating	Cooling
3-Pane Slider Door	, BlindsLight (50%), 1'-6", 2' above.	S	5	0.19	40	571	324
Custom	Triple Pane Windows, BlindsDark45 (60%), Inside (50%), 6', 2' above., GreenGrass	S	5	0.19	16	228	94
Custom	Triple Pane Windows, BlindsMedium45 (80%), Inside (50%), 2'-6", 12' above.	S	5	0.19	20	286	178
Custom	Triple Pane Windows, BlindsMedium45 (80%), Inside (50%), 2'-6", 13' above.	S	5	0.19	20	286	178
Custom	Triple Pane Windows, BlindsDark (100%), Inside (50%), 1'-6", 2'-6" above.	S	5	0.19	23	321	176
Custom	Triple Pane Windows, BlindsLight45 (100%), 1'-6", 1' above., Asphalt	N	5	0.19	40	571	226
Custom	Triple Pane Windows, BlindsLight45 (100%), 1'-6", 2' above.	S	5	0.19	9	125	62
Custom	Triple Pane Windows, 6', 0'-6" above., OldConcrete	N	5	0.19	10	143	76
Custom	Triple Pane Windows, BlindsLight45 (100%), 1'-6", 0'-4" above., GreenGrass	N	5	0.19	56	800	316

Internal Loads

Basement Bedroom

1 Occupants:

Room Total

Sensible	Latent
230	200
230	200

Other Loads

Blower Load

512 Btu/hr

Kitchen / Dining

2 Occupants:

Adjustment for Unvented Range

Refrigerator or Freezer - 12 Cubic Feet

Room Total

Sensible	Latent
460	400
850	600
700	0
2,010	1,000

Master Bedroom

2 Occupants:

Room Total

Sensible	Latent
460	400
460	400

Bed #1

1 Occupants:

Room Total

Sensible	Latent
230	200
230	200

Bed #2

Sensible	Latent
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Project #:

1 Occupants:	230	200
Room Total	230	200

(1) ΔT : Difference between supply air and return air
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(2) Estimated air flow based on specified supply air ΔT

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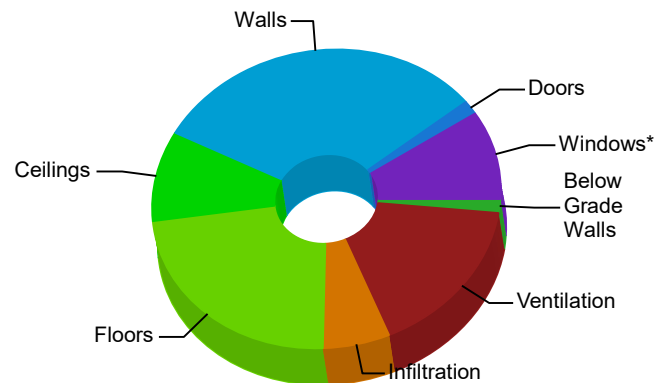
Load Breakdown

Name	Heating	Sensible	Latent
Windows*	3,331	1,631	
Skylights*	0	0	
Doors	521	260	
Walls	10,811	3,892	
Below Grade Walls	523		
Ceilings	3,318	2,021	
Floors	7,984	217	
Infiltration	2,119	0	0
Internal		3,160	2,000
Other	0		
Duct Loads	0	0	0
Ventilation	5,725	1,600	1,677
Humidification	0		
Piping Load	0		
Radiant Back Loss	0		
Blower Heat		512	
AED*		371	
Total	34,331	13,663	3,677
Total Area	2,465 ft²	2,465 ft²	

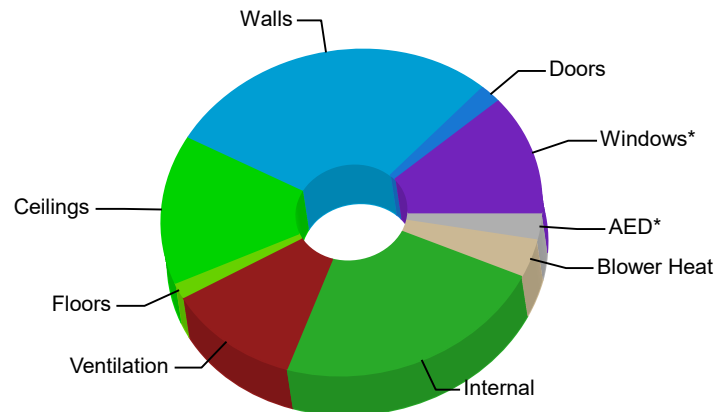
*Average Load Procedure

Heating ΔT¹: 20.0 JSHR: 0.79
 Cooling ΔT¹: 22.0 MJ8 Tons: 1.45
 Est. Heating CFM²: 1350 SqFt/Ton: 1706
 Est. Cooling CFM²: 495 CFM/SqFt: 0.20

Heating Load Breakdown



Sensible Load Breakdown

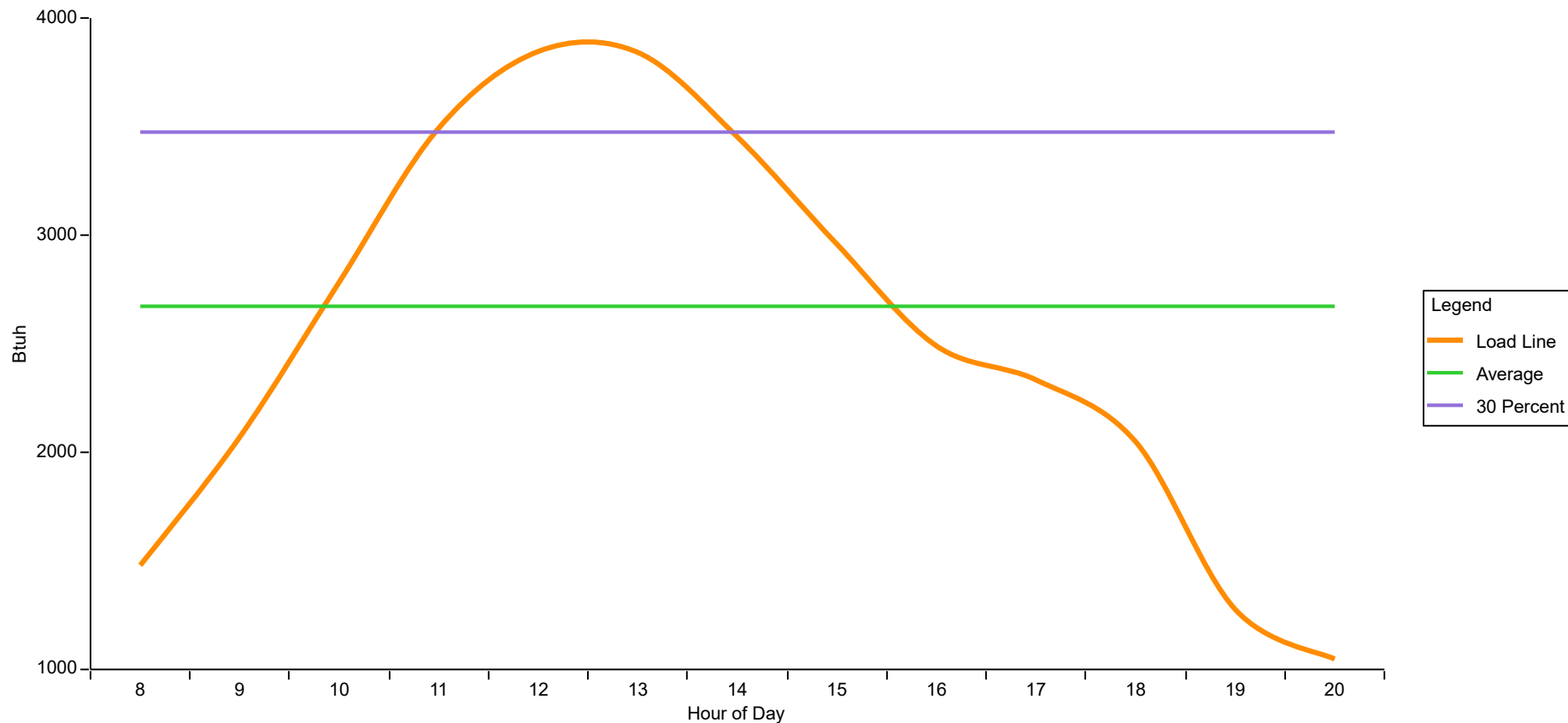


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Project #:

AED

Fenestration Load vs Hour of Day - Block Load (Summer)



Average Load: 2,673 Btu/hr
Excursion Limit: 3,475 Btu/hr

Peak Load: 3,846 Btu/hr
AED Load: 371 Btu/hr

(1) ΔT : Difference between supply air and return air
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Heating Zones

Zone	Area	Room Temp	Total Load
Zone 101 BASEMENT	592	68	3,350
Zone 102 LIVING LEVEL	492	68	10,501
Zone 201 KITCHEN / DIVING	592	68	7,545
Zone 202 MASTER	375	68	2,871
Zone 203 BEDROOMS / HALLWAY	413	68	4,340

Heating Rooms

Room	Area	Room Temp	Total Load*
Basement Bedroom	380	68	1,946
Basement Closet	34	68	58
Bath #2	50	68	360
Bath #3	43	68	965
Bed #1	157	68	2,182
Bed #2	143	68	1,641
Dining	165	68	3,176
Hallway	62	68	157
Kitchen	162	68	2,762
Kitchen / Dining	261	68	1,599
Laundry	45	68	1,909
Living Room	404	68	7,627
Master Bath	90	68	641
Master Bedroom	224	68	1,319
Master Closet	62	68	912
Mech Room	178	68	1,346
Room 5	4	68	8

* The sum of room loads may not be equal to the project total due to additional system loads.

Cooling Zones

Zone	Area	Room Temp	AED	Sensible Load
C1 KITCHEN / DIVING	592	75	NO	4,965
C2 MASTER	375	75	NO	1,840
C3 BEDROOMS / HALLWAY	413	75	YES	2,179
C4 LIVING LEVEL	492	75	NO	1,837
C5 BASEMENT	592	75	YES	830

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 Version:21.0.0780 R (Trial)

Project #:

(Average Load Procedure)

Cooling Rooms

Room	Area	Room Temp	AED	Sensible Load*
Basement Bedroom	380	75	YES	542
Basement Closet	34	75	YES	0
Bath #2	50	75	YES	152
Bath #3	43	75	YES	140
Bed #1	157	75	YES	1,048
Bed #2	143	75	YES	875
Dining	165	75	YES	1,165
Hallway	62	75	YES	104
Kitchen	162	75	NO	1,298
Kitchen / Dining	261	75	YES	2,580
Laundry	45	75	YES	246
Living Room	404	75	NO	1,451
Master Bath	90	75	YES	271
Master Bedroom	224	75	NO	1,245
Master Closet	62	75	YES	325
Mech Room	178	75	YES	288
Room 5	4	75	YES	6

* (Average Load Procedure) The sum of room loads may not equal the project total due to variations in solar gain and system loads.

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