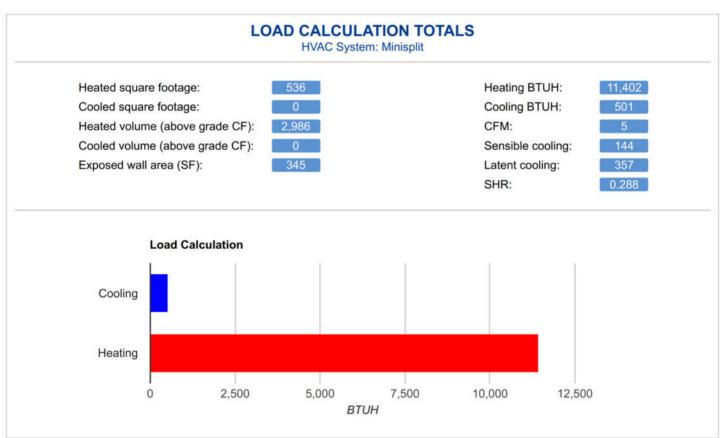
Project Name: Basement: May 15, 2022

Address: NS





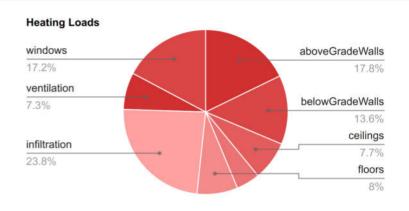
Approved ACCA MJ8 Calculations

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.

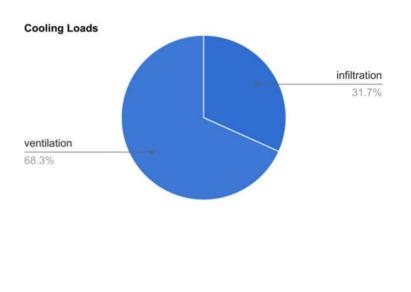


HEATING AND COOLING LOADS

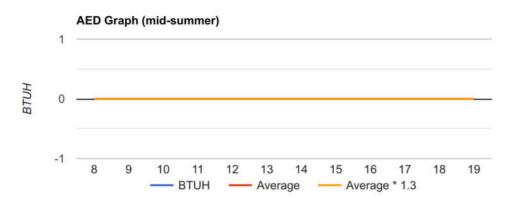
HEATING LOADS						
SECTION	AREA	HEAT LOSS				
aboveGradeWalls	372	2,029				
belowGradeWalls	450	1,546				
blowerMotor	0	0				
ceilings	536	878				
doors	24	529				
floors	536	912				
infiltration	0	2,715				
skylights	0	0				
ventilation	0	827				
windows	24	1,966				
Totals		11,402				



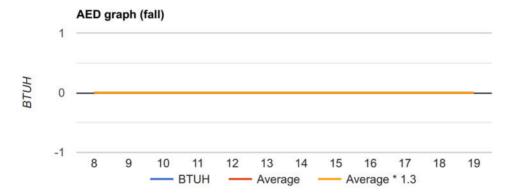
COOLING LOADS								
SECTION	AREA	SENSIBLE	LATENT					
AEDExcursion	0	0	0					
aboveGradeWalls	372	0	0					
belowGradeWalls	450	0	0					
blowerMotor	0	0	0					
ceilings	536	0	0					
doors	24	0	0					
floors	536	0	0					
infiltration	0	46	113					
skylights	0	0	0					
ventilation	0	98	244					
windows	24	0	0					
Totals		144	357					



FENESTRATION LOADS



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



This graph represents hourly aggregrate fenestration loads in October.

COMPONENT LOADS

	ABOVE GRADE WALLS								
System generated wall - E 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	E	Heating BTUH:	69			
	U Value:	0.088	Area:	12.5	Cooling BTUH:	0			
System generated wall - N 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	N	Heating BTUH:	140			
	U Value:	0.088	Area:	27.5	Cooling BTUH:	0			
System generated wall - S 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	S	Heating BTUH:	299			
	U Value:	0.088	Area:	54	Cooling BTUH:	0			
System generated wall - W 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	W	Heating BTUH:	222			
	U Value:	0.088	Area:	40	Cooling BTUH:	0			
System generated wall - E 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	E	Heating BTUH:	432			
	U Value:	0.088	Area:	78	Cooling BTUH:	0			
System generated wall - S 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	S	Heating BTUH:	621			
	U Value:	0.088	Area:	112	Cooling BTUH:	0			
System generated wall - W 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr:	15B15-0w-x	Exposure:	W	Heating BTUH:	245			
	U Value:	0.088	Area:	48	Cooling BTUH:	0			

	BELOW GRA	ADE WALLS				
System generated wall - N 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	66	Heating:	212
System generated wall - E 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	27.5	Heating:	88
System generated wall - N 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	60.5	Heating:	194
System generated wall - S 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.065	Area:	22	Heating:	90
System generated wall - W 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.057	Area:	40	Heating:	144
System generated wall - N 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	49.5	Heating:	159

BELOW GRADE WALLS									
System generated wall - E 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.065	Area:	54	Heating:	221			
System generated wall - W 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	55	Heating:	177			
System generated wall - N 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.051	Area:	27.5	Heating:	88			
System generated wall - W 8 inch brick, stone or concrete, Wood framing, R-15 cavity insulation, None board insulation.	Construction nr: U Value:	15B15-0w-x 0.057	Area:	48	Heating:	172			

WINDOWS								
Bedroom Window Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 S	U Value: SHGC:	1.3 0.45	Heating BTUH: Cooling BTUH:	983 0		
Rec Room Window Window, NFRC rated, Clear glass.	Construction nr: Area: Exposure:	1G 12 E	U Value: SHGC:	1.3 0.45	Heating BTUH: Cooling BTUH:	983 0		

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

CEILINGS								
System generated ceiling. Ceiling under attic or attic knee wall, Asphalt shingles, Dark, R-38.	Construction nr: U Value:	16B-38 ad 0.026	Area:	60	Heating BTUH: Cooling BTUH:	98 0		
System generated ceiling. Ceiling under attic or attic knee wall, Asphalt shingles, Dark, R-38.	Construction nr: U Value:	16B-38 ad 0.026	Area:	110	Heating BTUH: Cooling BTUH:	180 0		
System generated ceiling. Ceiling under attic or attic knee wall, Asphalt shingles, Dark, R-38.	Construction nr: U Value:	16B-38 ad 0.026	Area:	306	Heating BTUH: Cooling BTUH:	501 0		
System generated ceiling. Ceiling under attic or attic knee wall, Asphalt shingles, Dark, R-38.	Construction nr: U Value:	16B-38 ad 0.026	Area:	60	Heating BTUH: Cooling BTUH:	98 0		

SKYLIGHTS

There are no components for this section.

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

	DOO	RS	22			
Default doors for wall id 2644818	Construction nr:	11	Area:	24	Heating BTUH:	529
Metal Door, Polystyrene Core.	U Value:	0.35	Exposure:	S	Cooling BTUH:	0

	FLOC	ORS			
System generated floor. Basement floor, no floor insulation.	Construction nr: Area:	21A 60	Heating U Value:0.027 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	102 0 N/A

FLOORS								
System generated floor. Basement floor, no floor insulation.	Construction nr: Area:	21A 110	Heating U Value:0.027 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	187 0 N/A			
System generated floor. Basement floor, no floor insulation.	Construction nr: Area:	21A 306	Heating U Value:0.027 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	521 0 N/A			
System generated floor. Basement floor, no floor insulation.	Construction nr: Area:	21A 60	Heating U Value:0.027 Cooling U Value:0	Heating BTUH: Cooling BTUH: F Value:	102 0 N/A			

	VENTILAT	ION				
HRV	Heating SER: Sensible SER: Latent LER:	0.6 0 N/A	CFM:	30	Heating BTUH: Sensible BTUH:	827 98

HOT WATER PIPING

There are no components for this section.

DUCTS

There are no components for this section.

		INFILTRATION			
Leakage Category:	Semi-Tight	NCFM Heating: NCFM Cooling:	39 14	Heating BTUH: Sensible BTUH: Latent BTUH:	2,715 46 113

BLOWER MOTOR				
0 watt blower motor; OEM performance data not adjusted for blower motor heat.	Watts:	0	Sensible BTUH:	0

WINTER HUMIDIFICATION

There are no components for this section.

OCCUPANTS

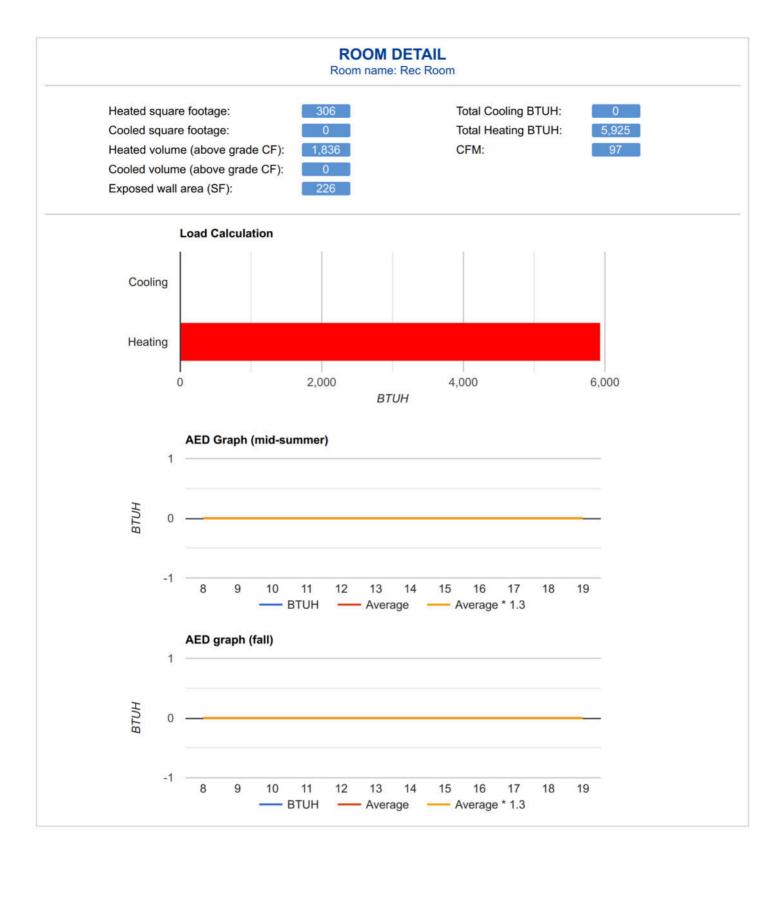
There are no components for this section.

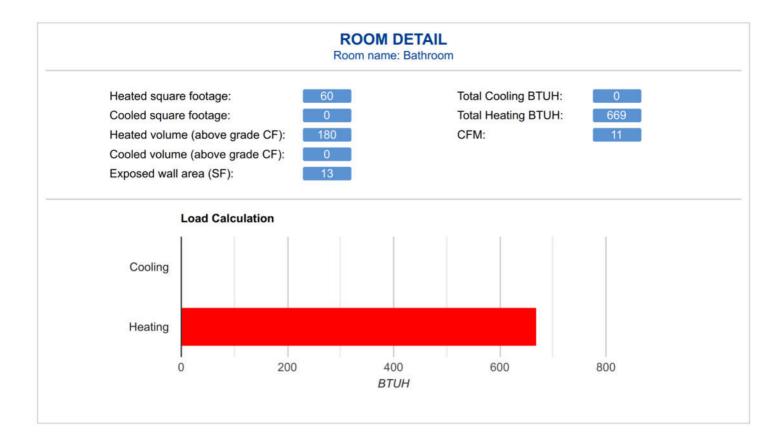
APPLIANCES

There are no components for this section.

PLANTS

There are no components for this section.





ROOM DETAIL Room name: Bedroom Heated square footage: Total Cooling BTUH: Cooled square footage: Total Heating BTUH: Heated volume (above grade CF): CFM: Cooled volume (above grade CF): Exposed wall area (SF): 106 **Load Calculation** Cooling Heating 1,000 2,000 3,000 4,000 **BTUH** AED Graph (mid-summer) 1 -1 19 11 12 13 17 18 - BTUH Average — Average * 1.3 AED graph (fall) 10 11 12 13 15 16 17 18 19 BTUH Average — Average * 1.3

