

HVAC Renovation

Location
Building owner
Program user
Company
Comments

5 Hallview Dr Simsbury CT
VA
Bob Sherman
LEA
Based upon field notes

By
Dataset name

Loureiro Engineering Associates
C:\CDS\projects\VA Simsbury\VASimsbury.trc

Calculation time
TRACE® 700 version

11:32 AM on 05/01/2013
6.2.8

Location
Latitude
Longitude
Time Zone
Elevation
Barometric pressure

Hartford, Connecticut
41.0 deg
72.0 deg
5
15 ft
29.9 in. Hg

Air density
Air specific heat
Density-specific heat product
Latent heat factor
Enthalpy factor

0.0760 lb/cu ft
0.2444 Btu/lb-°F
1.1147 Btu/h-cfm-°F
4,906.9 Btu-min/h-cu ft
4.5604 lb-min/hr-cu ft

Summer design dry bulb
Summer design wet bulb
Winter design dry bulb
Summer clearness number
Winter clearness number
Summer ground reflectance
Winter ground reflectance
Carbon Dioxide Level

88 °F
73 °F
7 °F
1.00
1.00
0.20
0.20
400 ppm

Design simulation period
Cooling load methodology
Heating load methodology

January - December
TETD-TA1
UATD



System Checksums

By Loureiro Engineering Associates

AHU-1

Changeover-Bypass VAV

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES								
Peaked at Time: Mo/Hr: 7 / 17					Mo/Hr: 7 / 17					Mo/Hr: Heating Design													
Outside Air: OADBWB/HR: 86 / 72 / 95					OADB: 86					OADB: 7													
Sens. + Lat.		Plenum		Net		Space		Coil		SADB		Ra Plenum		Return		Ret/OA		Fn MtrTD		Fn BldTD		Fn Frict	
Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h		Btu/h	
Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent		Percent	
Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total		Of Total	
%		%		%		%		%		%		%		%		%		%		%		%	
Envelope Loads					Envelope Loads					Envelope Loads					Envelope Loads								
SkyLite Solar					SkyLite Solar					SkyLite Solar					SkyLite Solar								
0					0					0					0								
Roof Cond					Roof Cond					Roof Cond					Roof Cond								
0					0					0					0								
13,210					13,210					13,210					13,210								
37,751					37,751					37,751					37,751								
3,503					3,503					3,503					3,503								
2,993					2,993					2,993					2,993								
675					675					675					675								
Partition/Door					Partition/Door					Partition/Door					Partition/Door								
0					0					0					0								
Floor					Floor					Floor					Floor								
0					0					0					0								
Adjacent Floor					Adjacent Floor					Adjacent Floor					Adjacent Floor								
0					0					0					0								
Infiltration					Infiltration					Infiltration					Infiltration								
0					0					0					0								
Sub Total ==>					Sub Total ==>					Sub Total ==>					Sub Total ==>								
44,922					44,922					44,922					44,922								
14,001					14,001					14,001					14,001								
58,923					58,923					58,923					58,923								
94					94					94					94								
4,195					4,195					4,195					4,195								
0					0					0					0								
Ceiling Load					Ceiling Load					Ceiling Load					Ceiling Load								
0					0					0					0								
Ventilation Load					Ventilation Load					Ventilation Load					Ventilation Load								
0					0					0					0								
Adj Air Trans Heat					Adj Air Trans Heat					Adj Air Trans Heat					Adj Air Trans Heat								
0					0					0					0								
Dehumid. Ov Sizing					Dehumid. Ov Sizing					Dehumid. Ov Sizing					Dehumid. Ov Sizing								
0					0					0					0								
Ov/Undr Sizing					Ov/Undr Sizing					Ov/Undr Sizing					Ov/Undr Sizing								
0					0					0					0								
Exhaust Heat					Exhaust Heat					Exhaust Heat					Exhaust Heat								
0					0					0					0								
Sup. Fan Heat					Sup. Fan Heat					Sup. Fan Heat					Sup. Fan Heat								
0					0					0					0								
Ret. Fan Heat					Ret. Fan Heat					Ret. Fan Heat					Ret. Fan Heat								
0					0					0					0								
Duct Heat PkUp					Duct Heat PkUp					Duct Heat PkUp					Duct Heat PkUp								
0					0					0					0								
Underflr Sup Ht PkUp					Underflr Sup Ht PkUp					Underflr Sup Ht PkUp					Underflr Sup Ht PkUp								
0					0					0					0								
Supply Air Leakage					Supply Air Leakage					Supply Air Leakage					Supply Air Leakage								
0					0					0					0								
Grand Total ==>					Grand Total ==>					Grand Total ==>					Grand Total ==>								
49,116					49,116					49,116					49,116								
9,806					9,806					9,806					9,806								
62,838					62,838					62,838					62,838								
100.00					100.00					100.00					100.00								
49,112					49,112					49,112					49,112								
100.00					100.00					100.00					100.00								
Grand Total ==>					Grand Total ==>					Grand Total ==>					Grand Total ==>								
-39,932					-39,932					-39,932					-39,932								
-46,570					-46,570					-46,570					-46,570								
100.00					100.00					100.00					100.00								
-34.5					-34.5					-34.5					-34.5								

COOLING COIL SELECTION					HEATING COIL SELECTION				
Total Capacity					Total Capacity				
ton					ton				
MBh					MBh				
Sens Cap.					Sens Cap.				
MBh					MBh				
Coil Airflow					Coil Airflow				
cfm					cfm				
Enter DBWB/HR					Enter DBWB/HR				
°F					°F				
°F					°F				
gr/lb					gr/lb				
53.4					53.4				
47.2					47.2				
38.4					38.4				
0.0					0.0				
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Zone Checksums

By Loureiro Engineering Associates

Basement Zone

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES							
Peaked at Time: Outside Air: OADBWB/Hr: 86 / 72 / 95					Mo/Hr: 7 / 17 OADB: 86					Mo/Hr: Heating Design OADB: 7												
Envelope Loads	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Total Of Total Btu/h	Percent (%)	Space Sensible Btu/h	Percent (%)	Envelope Loads	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Of Total Btu/h	Percent (%)	SADB	Cooling	Heating	Ra Plenum Return	Ref/OA	Fn MfRTD	Fn BldTD	Fn Frict				
Skylite Solar	0	0	0	0	0	0	Skylite Solar	0	0	0.00	55.0	105.0	64.2	79.0	91.0	91.0	0.2	0.0	0.0			
Skylite Cond	0	0	0	0	0	0	Skylite Cond	0	0	0.00	79.0			79.0			0.4	0.0	1.1			
Roof Cond	0	0	0	0	0	0	Roof Cond	0	0	0.00												
Glass Solar	15,304	0	15,304	81	15,304	82	Glass Solar	0	0	0.00												
Glass/Door Cond	1,034	0	1,034	5	1,034	6	Glass/Door Cond	-5,940	-5,940	45.22												
Wall Cond	869	279	1,148	6	869	5	Wall Cond	-1,006	-1,323	10.07												
Partition/Door	0	0	0	0	0	0	Partition/Door	0	-6,027	0.00												
Floor	0	0	0	0	0	0	Floor	-6,027	-6,027	45.89												
Adjacent Floor	0	0	0	0	0	0	Adjacent Floor	0	0	0.00												
Infiltration	0	0	0	0	0	0	Infiltration	0	0	0.00												
Sub Total ==>	17,208	279	17,487	92	17,208	92	Sub Total ==>	-12,973	-13,290	101.18												
Internal Loads					Internal Loads						AIRFLOWS											
Lights	0	0	0	0	0	0	Lights	0	0	0.00												
People	0	0	0	0	0	0	People	0	0	0.00												
Misc	0	0	0	0	0	0	Misc	0	0	0.00												
Sub Total ==>	0	0	0	0	0	0	Sub Total ==>	0	0	0.00												
Ceiling Load	1,519	-1,519	0	0	1,519	8	Ceiling Load	-2,214	0	0.00												
Ventilation Load	0	0	0	0	0	0	Ventilation Load	0	0	0.00												
Adj Air Trans Heat	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0.00												
Dehumid. Ov Sizing	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0.00												
Ov/Undr Sizing	0	0	0	0	0	0	Exhaust Heat	0	0	0.00												
Exhaust Heat	0	0	0	0	0	0	OA Preheat Diff.	0	0	0.00												
Sup. Fan Heat	0	0	1,493	8	0	0	RA Preheat Diff.	0	0	0.00												
Ret. Fan Heat	0	0	0	0	0	0	Additional Reheat	0	155	-1.18												
Duct Heat PkUp	0	0	0	0	0	0	System Plenum Heat	0	0	0.00												
Underflr Sup Ht PkUp	0	0	0	0	0	0	Underflr Sup Ht PkUp	0	0	0.00												
Supply Air Leakage	0	0	0	0	0	0	Supply Air Leakage	0	0	0.00												
Grand Total ==>	18,727	-1,240	18,980	100.00	18,727	100.00	Grand Total ==>	-15,187	-13,134	100.00												
COOLING COIL SELECTION					HEATING COIL SELECTION					HEATING COIL SELECTION					HEATING COIL SELECTION							
Total Capacity ton	19.0	Sens Cap. MBh	19.0	Coil Airflow cfm	840	Enter DBWB/Hr °F	58.1	Leave DBWB/Hr °F	53.4	47.3	Gross Total	1,201	Glass ft² (%)	0	Main Htg	-13.1	Capacity MBh	840	Coil Airflow cfm	91.0	Ent °F	105.0
Aux Cig	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Floor Part	0			Aux Htg	0.0	0.0	0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0			Preheat	0.0	0.0	0	0.0	0.0	0.0	
Total	1.6		19.0								ExFlr	96			Humidif	0.0	0.0	0	0.0	0.0	0.0	
											Roof	0			Opt Vent	0.0	0.0	0	0.0	0.0	0.0	
											Wall	592			Total	-13.1						
											Ext Door	0										

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COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADBWB/Hr: 86 / 72 / 95

Mo/Hr: 7 /
OADB: 86

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat. Btu/h	Net Percent Total Of Total Btu/h (%)
1			
2			
3			
4			
5			
6			
7			
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9			
10			
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97			
98			
99			
100			

Mo/Hr: Heating Design
OADB: 7

	Cooling	Heating
SADB	55.0	105.0
Ra Plenum	79.0	64.2
Return	79.0	91.0
RetOA	79.0	91.0
Fn MfTD	0.2	0.0
Fn BldTD	0.4	0.0
Fn Frict	1.1	0.0

Cooling Heating

Diffuser	1,363	63
Terminal	1,363	63
Main Fan	1,363	2,09
Sec Fan	0	
Non Vent	0	
AHU Vent	0	
Infil	0	
MInStop/Rh	0	
Return	1,363	1,36
Exhaust	0	
Rm Exh	0	
Auxiliary	0	
Leakage Dwn	0	
Leakage Ups	0	

Cooling Heating

% OA	0.0	0.0
cfm/ft ²	0.65	0.65
cfm/ton	372.82	
ft ³ /ton	577.64	
Btu/hr-ft ²	20.77	-10.09
No. People	0	

Sens Cap.	Coil Airflow	Enter DB/WB/HR	Leave DB/WB/HR
MB	cfm	°C	°C

	ton	mbn	mbn	cm	f	f	g/bd	f	g/bd
Main Cig	3.7	43.9	43.9	1,363	79.0	58.1	38.7	53.4	45.7
Aux Cig	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
Total	3.7	43.9							

Gross Total	Glass
42	107

	It (%)
Floor Part	2,112 569
Int Door	0
ExFlr Roof Wall	955 0 1,683
Ext Door	21 0

Capacity	Coil Airflow	Ent	LY
1000	1000	1000	1000
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000

	MBN	cm	T
Main Htg	-21.3	1,363	91.0
Aux Htg	0.0	0	0.0
Preheat	0.0	0	0.0
Humidif	0.0	0	0.0
Opt Vent	0.0	0	0.0
Total	-21.3		

System Checksums
By Loureiro Engineering Associates

AHU-2

Changeover-Bypass VAV

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES						
Peaked at Time: Outside Air: OADBWB/Hr: 86 / 72 / 95					Mo/Hr: 7 / 17 OADB: 86					Mo/Hr: Heating Design OADB: 7											
Envelope Loads		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Of Total Btu/h	Percent (%)	Space Sensible Of Total Btu/h		Percent (%)	Envelope Loads		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Of Total Btu/h	Percent (%)	SADB		Cooling 55.0	Heating 105.0				
Sky/Solar	0	0	0	0	0	Sky/Solar	0	0	0	0	0	0	0.00	Ra Plenum	75.3	69.3					
Sky/Solar	0	0	0	0	0	Roof Cond	0	0	0	0	0	0	0.00	Return	75.3	93.2					
Roof Cond	0	0	0	0	0	Glass Solar	18,074	81	0	0	0	0	0.00	Ret/OA	75.3	88.2					
Glass Solar	18,074	0	18,074	74	6	Glass/Door Cond	1,392	6	-7,932	-7,932	42.02	Fn MfRTD	0.2	0.0	0.0						
Glass/Door Cond	1,392	0	1,392	6	7	Wall Cond	1,262	6	-1,996	-2,639	13.98	Fn BldTD	0.4	0.0	0.0						
Wall Cond	1,262	409	1,671	7	6	Partition/Door	1,569	7	-8,306	-8,306	44.00	Fn Frict	1.1	0.0	0.0						
Partition/Door	1,569	0	1,569	6	0	Floor	0	0	0	0	0	0	0.00	AIRFLOWS							
Floor	0	0	0	0	0	Adjacent Floor	0	0	0	0	0	0	0	Cooling 1,005	Heating 475						
Adjacent Floor	0	0	0	0	0	Infiltration	0	0	0	0	0	0	0	1,005	475						
Infiltration	0	0	0	0	0	Sub Total ==>	22,297	100	-18,233	-18,877	100.00	Terminal Main Fan	1,005	1,428	0						
Sub Total ==>	22,297	409	22,707	93	22,297	Internal Loads		Internal Loads		Nom Vent		0	0	0	0						
Internal Loads					Internal Loads					AHU Vent					0	0	0				
Lights	0	0	0	0	0	Lights	0	0	0	0	0	0	0	Infil	0	0					
People	0	0	0	0	0	People	0	0	0	0	0	0	0	MinStop/Rh	0	0					
Misc	0	0	0	0	0	Misc	0	0	0	0	0	0	0	Return	1,005	1,005					
Sub Total ==>	0	0	0	0	0	Sub Total ==>	0	0	0	0	0	0	0	Exhaust	0	0					
Ceiling Load	111	-111	0	0	0	Ceiling Load	111	0	-284	0	0	0	0.00	Rm Exh	0	0					
Ventilation Load	0	0	0	0	0	Ventilation Load	0	0	0	0	0	0	0.00	Auxiliary	0	0					
Adj Air Trans Heat	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	0	0	0.00	Leakage Dwn	0	0					
Dehumid. Ov Sizing	0	0	0	0	0	Ov/Undr Sizing	0	0	0	0	0	0	0	Leakage Ups	0	0					
Ov/Undr Sizing	0	0	0	0	0	Exhaust Heat	0	0	0	0	0	0	0.00	ENGINEERING CKS							
Exhaust Heat	0	0	0	0	0	OA Preheat Diff.	0	0	0	0	0	0	0.00	% OA	Cooling 0.0	Heating 0.0					
Sup. Fan Heat	0	0	1,787	7	0	RA Preheat Diff.	0	0	0	0	0	0	0.00	cfm/ft²	0.76	0.76					
Ret. Fan Heat	0	0	0	0	0	Additional Reheat	0	0	0	0	0	0	0.00	cfm/ft²	492.43						
Duct Heat PkUp	0	0	0	0	0	Underfir Sup Ht PkUp	0	0	0	0	0	0	0.00	ft³/min	645.89						
Underfir Sup Ht PkUp	0	0	0	0	0	Supply Air Leakage	0	0	0	0	0	0	0.00	ft³/hr-ft²	18.58	-10.08					
Supply Air Leakage	0	0	0	0	0	Grand Total ==>	22,409	100.00	-18,517	-18,877	100.00	No. People	0								
Grand Total ==>	22,409	298	24,494	100.00	22,409	COOLING COIL SELECTION					HEATING COIL SELECTION										
Total Capacity ton					Sens Cap. MBh	Coil Airflow cfm	Enter DBWB/Hr °F	gr/lb	Leave DBWB/Hr °F	gr/lb	Gross Total					Glass ft² (%)	Capacity/Coil Airflow Ent Lvg				
Main Cig	2.0	24.5	1,005	75.3	56.7	39.0	53.4	47.3	38.7	Floor	1,318			Main Htg	-13.3	1,005	93.2	105.0			
Aux Cig	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Part	1,318			Aux Htg	0.0	0	0.0	0.0			
Opt Vent	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	Int Door	0			Preheat	0.0	0	0.0	0.0			
										Exfir	0				0.0	0	0.0	0.0			
										Roof	0				0.0	0	0.0	0.0			
										Wall	1,104				0.0	0	0.0	0.0			
										Ext Door	0				0.0	0	0.0	0.0			
										Total	0			Total	-13.3						

Zone Checksums

By Loureiro Engineering Associates

Second Floor Zone

COOLING COIL PEAK					CLG SPACE PEAK					HEATING COIL PEAK					TEMPERATURES				
Peaked at Time: Outside Air: Mo/Hr: 7 / 17 OADBWB/HR: 86 / 72 / 95					Mo/Hr: 7 / 17 OADB: 86					Mo/Hr: Heating Design OADB: 7									
Envelope Loads		Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Of Total Btu/h	Percent (%)	Space Sensible Btu/h	Percent (%)	Envelope Loads		Space Peak Space Sens Btu/h	Coil Peak Tot Sens Of Total Btu/h	Percent (%)	SADB		Cooling 55.0	Heating 105.0			
Skylite Solar	0	0	0	0	0	0	0	Skylite Solar	0	0	0	0.00	Ra Plenum	75.3	69.3				
Skylite Cond	0	0	0	0	0	0	0	Skylite Cond	0	0	0	0.00	Return	75.3	93.2				
Roof Cond	0	0	0	0	0	0	0	Roof Cond	0	0	0	0.00	Ret/OA	75.3	93.2				
Glass Solar	18,074	0	18,074	74	81	18,074	6	Glass Solar	-7,932	-7,932	-7,932	59.72	Fn MtrTD	0.2	0.0				
Glass/Door Cond	1,392	0	1,392	6	6	1,392	6	Glass/Door Cond	-1,996	-1,996	-2,639	19.87	Fn BltTD	0.4	0.0				
Wall Cond	1,262	409	1,671	7	7	1,262	7	Wall Cond	-8,306	-8,306	-8,306	62.53	Fn Frict	1.1	0.0				
Partition/Door	1,569	0	1,569	6	0	1,569	0	Partition/Door	0	0	0	0.00							
Floor	0	0	0	0	0	0	0	Floor	0	0	0	0.00							
Adjacent Floor	0	0	0	0	0	0	0	Adjacent Floor	0	0	0	0.00							
Infiltration	0	0	0	0	0	0	0	Infiltration	0	0	0	0.00							
Sub Total ==>	22,297	409	22,707	93	100	22,297	-18,233	Sub Total ==>	-18,233	-18,877	142.12								
Internal Loads					Internal Loads										AIRFLOWS				
Lights	0	0	0	0	0	0	0	Lights	0	0	0	0.00	Diffuser	1,005	Heating 475	Cooling 475			
People	0	0	0	0	0	0	0	People	0	0	0	0.00	Terminal	1,005	475	1,005			
Misc	0	0	0	0	0	0	0	Misc	0	0	0	0.00	Main Fan	1,005	1,428	0			
Sub Total ==>	0	0	0	0	0	0	0	Sub Total ==>	0	0	0	0.00	Sec Fan	0	0	0			
Ceiling Load	111	-111	0	0	111	0	0	Ceiling Load	-284	0	0	0.00	Nom Vent	0	0	0			
Ventilation Load	0	0	0	0	0	0	0	Ventilation Load	0	0	0	0.00	AHU Vent	0	0	0			
Adj Air Trans Heat	0	0	0	0	0	0	0	Adj Air Trans Heat	0	0	0	0	MinsStop/Rh	0	0	0			
Dehumid. Ov Sizing	0	0	0	0	0	0	0	Dehumid. Ov Sizing	0	0	0	0	Return	1,005	1,005	0			
Ov/Undr Sizing	0	0	0	0	0	0	0	Ov/Undr Sizing	0	0	0	0	Exhaust	0	0	0			
Exhaust Heat	0	0	0	0	0	0	0	Exhaust Heat	0	0	0	0	Rm Exh	0	0	0			
Sup. Fan Heat	0	0	1,787	7	0	0	0	Sup. Fan Heat	0	0	0	0	Auxiliary	0	0	0			
Ret. Fan Heat	0	0	0	0	0	0	0	Ret. Fan Heat	0	0	0	0	Leakage Dwn	0	0	0			
Duct Heat PkUp	0	0	0	0	0	0	0	Duct Heat PkUp	0	0	0	0	Leakage Ups	0	0	0			
Underflr Sup Ht PkUp	0	0	0	0	0	0	0	Underflr Sup Ht PkUp	0	0	0	0							
Supply Air Leakage	0	0	0	0	0	0	0	Supply Air Leakage	0	0	0	0							
Grand Total ==>	22,409	298	24,494	100.00	22,409	100.00	-18,517	Grand Total ==>	-18,517	-13,282	100.00								
COOLING COIL SELECTION					HEATING COIL SELECTION					AREAS					HEATING COIL SELECTION				
Total Capacity ton	24.5	Sens Cap. MBh	24.5	Coil Airflow cfm	Enter DBWB/HR °F	Leave DBWB/HR °F	Gross Total	Glass ft² (%)	Main Htg	Aux Htg	Preheat	Humidif	Opt Vent	Total	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F	
Main Cig	2.0	24.5	24.5	1,005	75.3	56.7	Floor	1,318	0	0	0	0.0	0.0	0.0	-13.3	1,005	93.2	105.0	
Aux Cig	0.0	0.0	0.0	0	0.0	0.0	Part	1,318	0	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	Int Door	0	0	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
Total	2.0	24.5	24.5	1,005	75.3	56.7	ExFlr	0	0	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
							Roof	0	0	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
							Wall	1,104	206	19	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
							Ext Door	0	0	0	0	0.0	0.0	0.0	0.0	0	0.0	0.0	
							Total					-13.3							
ENGINEERING CKS																			
Cooling 0.0	Heating 0.0	% OA 0.76	Cfm/ft² 0.76	Cfm/ft² 492.43	ft²/ton 645.89	Btu/hr-ft² 18.58	No. People 0	-10.08											