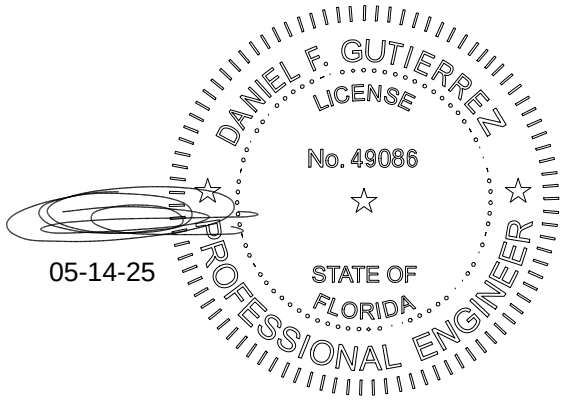
Herrera Residence



05-14-25

"This item has been digitally signed and sealed by Daniel F. Gutierrez on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies"

Location	**6825 SW 132 St Pinecrest FL 33156**
Building owner	**Herrera Residence**
Program user	**Daniel F Gutierrez**
Company	
Comments	

By	**DFG**
Dataset name	**E:\Heat Load\2025\Giorgio Balli\Herrera Residence.trc**
Calculation time	**01:55 PM on 05/16/2025**
TRACE® 700 version	**6.0**

Location	**Miami, Florida**	
Latitude	**25.0**	**deg**
Longitude	**80.0**	**deg**
Time Zone	**5**	
Elevation	**7**	**ft**
Barometric pressure	**29.9**	**in. Hg**
Air density	**0.0760**	**lb/cu ft**
Air specific heat	**0.2444**	**Btu/lb·°F**
Density-specific heat product	**1.1151**	**Btu/h·cfm·°F**
Latent heat factor	**4,908.6**	**Btu·min/h·cu ft**
Enthalpy factor	**4.5619**	**lb·min/hr·cu ft**
Summer design dry bulb	**90**	**°F**
Summer design wet bulb	**77**	**°F**
Winter design dry bulb	**47**	**°F**
Summer clearness number	**0.95**	
Winter clearness number	**0.95**	
Summer ground reflectance	**0.20**	
Winter ground reflectance	**0.20**	

Design simulation period	**January - December**
Cooling load methodology	**TETD-TA1**
Heating load methodology	**UATD**

Daniel F Gutierrez

Digitally signed by Daniel F Gutierrez
DN: CN=Daniel F Gutierrez, dnQualifier=A01410C000001957 1A387C50014606D, O=Unaffiliated, C=US
Date: 2025.05.16 14:00:11-04'00'

ENGINEERING CHECKS

By DFG

System	Zone	Room	Type	Floor Area ft²	COOLING % OA	COOLING cfm/ft²	COOLING cfm/ton	COOLING ft²/ton	COOLING Btu/hr·ft²	HEATING % OA	HEATING cfm/ft²	HEATING Btu/hr·ft²
		Staff Room	Room	178	0.00	1.37	558.7	407.0	29.48	0.00	1.37	-22.97
		Laundry 1rst Floor	Room	126	0.00	1.57	533.1	338.7	35.42	0.00	1.57	-26.34
		Hall & Stairs 1rst Floor	Room	484	0.00	0.81	423.6	525.6	22.83	0.00	0.81	-13.49
	Zone - 001		Zone	788	0.00	1.06	481.2	455.5	26.35	0.00	1.06	-17.68
System - 001			**System - Single Zone**	**788**	**0.00**	**1.06**	**481.2**	**455.5**	**26.35**	**0.00**	**1.06**	**-17.68**
		Dinning Room	Room	351	0.00	0.87	542.4	622.0	19.29	0.00	0.87	-17.89
		Kitchen	Room	490	12.17	0.84	441.7	526.9	22.77	12.17	0.84	-19.54
		Family Room	Room	774	0.00	1.39	588.9	425.1	28.23	0.00	1.39	-28.43
	Zone - 002		Zone	1,615	2.79	1.11	539.7	487.2	24.63	2.79	1.11	-23.44
System - 002			**System - Single Zone**	**1,615**	**2.79**	**1.11**	**539.7**	**487.2**	**24.63**	**2.79**	**1.11**	**-23.44**
		Foyer 1rst Floor	Room	566	0.00	2.83	680.6	240.4	49.91	0.00	0.00	-30.40
		Living Room	Room	566	0.00	1.70	576.2	339.6	35.34	0.00	0.00	-30.24
	Zone - 003		Zone	1,131	0.00	1.97	612.9	311.8	38.49	0.00	0.00	-30.32
System - 003			**System - VAV w/Baseboard Heating**	**1,131**	**0.00**	**1.97**	**612.9**	**311.8**	**38.49**	**0.00**	**0.00**	**-30.32**
		Gym	Room	248	0.00	1.14	480.6	422.5	28.40	0.00	0.00	-19.04
		Guest Room	Room	218	0.00	0.76	351.9	461.2	26.02	0.00	0.00	-10.82
		Lounge	Room	395	0.00	0.57	494.2	866.2	13.85	0.00	0.00	-12.66
		Study Room 1rst Floor	Room	284	0.00	1.14	474.2	417.4	28.75	0.00	0.00	-15.72
		Hall 1rst Floor	Room	326	0.00	0.97	537.5	552.6	21.71	0.00	0.00	-15.99
	Zone - 004		Zone	1,469	0.00	0.81	455.8	564.5	21.26	0.00	0.00	-14.79
System - 004			**System - VAV w/Baseboard Heating**	**1,469**	**0.00**	**0.81**	**455.8**	**564.5**	**21.26**	**0.00**	**0.00**	**-14.79**
		Primary MAster Room Bath & WC	Room	1,210	0.00	0.96	451.2	471.8	25.43	0.00	0.96	-15.24
		Hallway 2nd Floor	Room	424	0.00	0.96	470.3	490.5	24.46	0.00	0.96	-15.28
		Theater	Room	372	0.00	1.56	563.6	360.5	33.29	0.00	1.56	-24.91
	Zone - 005		Zone	2,007	0.00	1.07	480.9	449.7	26.68	0.00	1.07	-17.04
System - 005			**System - Single Zone**	**2,007**	**0.00**	**1.07**	**480.9**	**449.7**	**26.68**	**0.00**	**1.07**	**-17.04**
		Bedroom #2 & Bath 2nd Floor	Room	363	0.00	1.41	524.5	371.7	32.29	0.00	1.41	-22.50
		Laundry 2nd Floor	Room	248	0.00	1.80	598.4	332.3	36.11	0.00	1.80	-28.71
		Bedroom #1 2nd Floor	Room	405	0.00	1.04	457.9	441.4	27.19	0.00	1.04	-16.54
	Zone - 006		Zone	1,016	0.00	1.36	522.2	384.8	31.19	0.00	1.36	-21.64
System - 006			**System - Single Zone**	**1,016**	**0.00**	**1.36**	**522.2**	**384.8**	**31.19**	**0.00**	**1.36**	**-21.64**
		Pool House	Room	506	0.00	2.09	607.4	290.6	41.30	0.00	2.09	-30.20
	Zone - 007		Zone	506	0.00	2.09	607.4	290.6	41.30	0.00	2.09	-30.20
System - 007			**System - Single Zone**	**506**	**0.00**	**2.09**	**607.4**	**290.6**	**41.30**	**0.00**	**2.09**	**-30.20**

System Checksums

By DFG

System - 001 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,766	2,766	13
Glass Solar	3,996	0	3,996	19
Glass Cond	2,738	0	2,738	13
Wall Cond	3,441	1,228	4,669	23
Partition	1,991		1,991	10
Exposed Floor	0		0	0
Infiltration	2,238		2,238	11
Sub Total ==>	14,404	3,995	18,399	89
Internal Loads				
Lights	1,024	0	1,024	5
People	1,500		1,500	7
Misc	0	0	0	0
Sub Total ==>	2,524	0	2,524	12
Ceiling Load	836	-836	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-172	-172	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	17,764	2,987	20,751	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	4,161	27
Glass Cond	2,361	15
Wall Cond	3,787	24
Partition	1,956	13
Exposed Floor	0	0
Infiltration	594	4
Sub Total ==>	12,860	83
Internal Loads		
Lights	1,024	7
People	750	5
Misc	0	0
Sub Total ==>	1,774	11
Ceiling Load	824	5
Ventilation Load	0	0
Dehumid. Ov Sizing		
Ov/Undr Sizing	0	0
Exhaust Heat		
Sup. Fan Heat		
Ret. Fan Heat		
Duct Heat Pkup		
Reheat at Design		
Grand Total ==>	15,457	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-783	5.63
Glass Solar	0	0	0.00
Glass Cond	-4,872	-4,872	34.99
Wall Cond	-2,552	-3,524	25.30
Partition	-2,860	-2,860	20.54
Exposed Floor	0	0	0.00
Infiltration	-1,076	-1,076	7.73
Sub Total ==>	-11,360	-13,115	94.18
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-356	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	-884	-884	6.35
Exhaust Heat		73	-0.53
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-12,600	-13,925	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	81.6
Plenum	78.4	66.6
Return	78.4	66.6
Ret/OA	78.4	66.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.1	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	46	46
Supply	832	832
MinStop/Rh	0	0
Return	878	878
Exhaust	46	46
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.06	1.06
cfm/ton	481.22	
ft²/ton	455.46	
Btu/hr·ft²	26.35	-17.68
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.7	20.8	18.4	832.1	78.4	63.7	64.9	58.2	55.5	61.5
Aux Clg	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	0.0
Total	1.7	20.8								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	788		
Part	351		
ExFlr	0		
Roof	502	0	0
Wall	931	217	23

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-13.9	832.1	66.6	81.6
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-13.9			

System Checksums

By DFG

System - 002 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	364	364	1
Glass Solar	16,723	0	16,723	42
Glass Cond	8,413	0	8,413	21
Wall Cond	621	1,205	1,826	5
Partition	3,050		3,050	8
Exposed Floor	0		0	0
Infiltration	4,712		4,712	12
Sub Total ==>	33,519	1,569	35,088	88
Internal Loads				
Lights	1,024	0	1,024	3
People	1,500		1,500	4
Misc	0	0	0	0
Sub Total ==>	2,524	0	2,524	6
Ceiling Load	287	-287	0	0
Ventilation Load	0	0	2,259	6
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-91	-91	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	36,330	1,190	39,779	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	18,991	58
Glass Cond	7,154	22
Wall Cond	541	2
Partition	2,833	9
Exposed Floor	0	0
Infiltration	1,188	4
Sub Total ==>	30,707	94
Internal Loads		
Lights	1,024	3
People	750	2
Misc	0	0
Sub Total ==>	1,774	5
Ceiling Load	249	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	32,730	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-97	0.26
Glass Solar	0	0	0.00
Glass Cond	-13,984	-13,984	36.94
Wall Cond	-530	-1,559	4.12
Partition	-4,432	-4,432	11.71
Exposed Floor	0	0	0.00
Infiltration	-2,206	-2,206	5.83
Sub Total ==>	-21,153	-22,278	58.85
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-220	0	0.00
Ventilation Load	0	-1,171	3.09
Ov/Undr Sizing	-14,479	-14,479	38.24
Exhaust Heat		69	-0.18
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-35,852	-37,858	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.6	86.0
Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	75.9	67.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	50	50
Infil	94	94
Supply	1,789	1,789
MinStop/Rh	0	0
Return	1,883	1,883
Exhaust	144	144
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	2.8	2.8
cfm/ft²	1.11	1.11
cfm/ton	539.68	
ft²/ton	487.19	
Btu/hr·ft²	24.63	-23.44
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	3.3	39.8	34.2	1,789.0	75.9	63.2	66.4	58.6	55.8	62.2
Aux Clg	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	0.0
Total	3.3	39.8								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	1,615		
Part	544		
ExFlr	0		
Roof	59	0	0
Wall	938	624	67

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-37.9	1,789.0	67.0	86.0
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-37.9			

System Checksums

By DFG

System - 003 **VAV w/Baseboard Heating**

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 14
Outside Air: OADB/WB/HR: 88 / 74 / 106

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	6,170	6,170	14
Glass Solar	14,929	0	14,929	34
Glass Cond	10,222	0	10,222	23
Wall Cond	0	459	459	1
Partition	7,370		7,370	17
Exposed Floor	0		0	0
Infiltration	2,875		2,875	7
Sub Total ==>	35,396	6,629	42,025	97
Internal Loads				
Lights	683	0	683	2
People	1,000		1,000	2
Misc	0	0	0	0
Sub Total ==>	1,683	0	1,683	4
Ceiling Load	814	-814	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-167	-167	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	37,893	5,648	43,540	100.00

CLG SPACE PEAK

Mo/Hr: 9 / 14
OADB: 88

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	14,929	42
Glass Cond	10,222	29
Wall Cond	0	0
Partition	7,370	21
Exposed Floor	0	0
Infiltration	964	3
Sub Total ==>	33,485	94
Internal Loads		
Lights	683	2
People	500	1
Misc	0	0
Sub Total ==>	1,183	3
Ceiling Load	814	2
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	35,481	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-1,422	4.19
Glass Solar	0	0	0.00
Glass Cond	-17,841	-17,841	52.61
Wall Cond	0	-454	1.34
Partition	-13,035	-13,035	38.44
Exposed Floor	0	0	0.00
Infiltration	-1,545	-1,545	4.56
Sub Total ==>	-32,421	-34,297	101.14
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-1,876	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		385	-1.14
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-34,297	-33,912	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.7	68.0
Plenum	77.3	62.8
Return	77.3	62.8
Ret/OA	77.3	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	66	66
Supply	2,224	0
MinStop/Rh	0	0
Return	2,290	0
Exhaust	66	66
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.97	0.00
cfm/ton	612.92	
ft²/ton	311.77	
Btu/hr·ft²	38.49	-30.32
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	3.6	43.5	41.1	2,223.9	77.3	63.4	65.2	60.7	57.0	63.6
Aux Clg	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	0.0
Total	3.6	43.5								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	1,131		
Part	1,600		
ExFlr	0		
Roof	1,131	0	0
Wall	916	796	87

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-34.3	0.0	0.0	0.0
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-34.3			

System Checksums

By DFG

System - 004 **VAV w/Baseboard Heating**

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,032	2,032	7
Glass Solar	2,205	0	2,205	7
Glass Cond	4,962	0	4,962	16
Wall Cond	7,151	2,538	9,690	31
Partition	3,730		3,730	12
Exposed Floor	0		0	0
Infiltration	4,644		4,644	15
Sub Total ==>	22,692	4,570	27,262	87
Internal Loads				
Lights	1,707	0	1,707	5
People	2,500		2,500	8
Misc	0	0	0	0
Sub Total ==>	4,207	0	4,207	13
Ceiling Load	1,121	-1,121	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-230	-230	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	28,020	3,219	31,239	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	1,957	8
Glass Cond	4,859	21
Wall Cond	7,392	31
Partition	3,862	16
Exposed Floor	0	0
Infiltration	1,404	6
Sub Total ==>	19,474	83
Internal Loads		
Lights	1,707	7
People	1,250	5
Misc	0	0
Sub Total ==>	2,957	13
Ceiling Load	1,154	5
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	23,584	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-427	2.00
Glass Solar	0	0	0.00
Glass Cond	-7,563	-7,563	35.44
Wall Cond	-4,849	-6,351	29.77
Partition	-5,385	-5,385	25.24
Exposed Floor	0	0	0.00
Infiltration	-2,007	-2,007	9.41
Sub Total ==>	-19,805	-21,734	101.86
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-1,930	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		396	-1.86
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-21,734	-21,338	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	77.4	63.9
Return	77.4	63.9
Ret/OA	77.4	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	86	86
Supply	1,187	0
MinStop/Rh	0	0
Return	1,272	0
Exhaust	86	86
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.81	0.00
cfm/ton	455.81	
ft²/ton	564.45	
Btu/hr·ft²	21.26	-14.79
No. People	5	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	2.6	31.2	26.8	1,185.3	77.4	63.4	65.1	57.2	54.6	59.7
Aux Clg	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	0.0
Total	2.6	31.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	1,469		
Part	661		
ExFlr	0		
Roof	318	0	0
Wall	1,671	337	20

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-21.7	0.0	0.0	0.0
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-21.7			

System Checksums

By DFG

System - 005 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	11,684	11,684	22
Glass Solar	15,791	0	15,791	29
Glass Cond	7,017	0	7,017	13
Wall Cond	5,033	2,012	7,045	13
Partition	4,601		4,601	9
Exposed Floor	0		0	0
Infiltration	5,446		5,446	10
Sub Total ==>	37,888	13,696	51,584	96
Internal Loads				
Lights	1,024	0	1,024	2
People	1,500		1,500	3
Misc	0	0	0	0
Sub Total ==>	2,524	0	2,524	5
Ceiling Load	2,750	-2,750	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-565	-565	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	43,162	10,381	53,543	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	15,791	41
Glass Cond	7,017	18
Wall Cond	5,033	13
Partition	4,601	12
Exposed Floor	0	0
Infiltration	1,712	4
Sub Total ==>	34,153	88
Internal Loads		
Lights	1,024	3
People	750	2
Misc	0	0
Sub Total ==>	1,774	5
Ceiling Load	2,750	7
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	38,677	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-3,109	9.09
Glass Solar	0	0	0.00
Glass Cond	-12,766	-12,766	37.33
Wall Cond	-4,103	-5,945	17.39
Partition	-7,332	-7,332	21.44
Exposed Floor	0	0	0.00
Infiltration	-2,741	-2,741	8.02
Sub Total ==>	-26,943	-31,894	93.27
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-996	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	-2,507	-2,507	7.33
Exhaust Heat		205	-0.60
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-30,446	-34,197	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.8	80.7
Plenum	79.3	66.4
Return	79.2	66.4
Ret/OA	79.2	66.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	117	117
Supply	2,146	2,146
MinStop/Rh	0	0
Return	2,263	2,263
Exhaust	117	117
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.07	1.07
cfm/ton	480.91	
ft²/ton	449.70	
Btu/hr·ft²	26.68	-17.04
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	4.5	53.5	49.1	2,145.8	79.2	64.0	64.9	58.8	55.8	61.7
Aux Clg	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	0.0
Total	4.5	53.5								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	2,007		
Part	900		
ExFlr	0		
Roof	2,007	0	0
Wall	1,779	570	32

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-34.2	2,145.8	66.4	80.7
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-34.2			

System Checksums

By DFG

System - 006 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	5,588	5,588	18
Glass Solar	8,866	0	8,866	28
Glass Cond	4,043	0	4,043	13
Wall Cond	4,911	1,727	6,638	21
Partition	1,707		1,707	5
Exposed Floor	0		0	0
Infiltration	2,583		2,583	8
Sub Total ==>	22,110	7,314	29,424	93
Internal Loads				
Lights	1,024	0	1,024	3
People	1,500		1,500	5
Misc	0	0	0	0
Sub Total ==>	2,524	0	2,524	8
Ceiling Load	1,206	-1,206	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-248	-248	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	25,840	5,860	31,700	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	11,676	49
Glass Cond	3,247	14
Wall Cond	3,987	17
Partition	1,399	6
Exposed Floor	0	0
Infiltration	664	3
Sub Total ==>	20,973	88
Internal Loads		
Lights	1,024	4
People	750	3
Misc	0	0
Sub Total ==>	1,774	7
Ceiling Load	1,007	4
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	23,754	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-1,577	7.17
Glass Solar	0	0	0.00
Glass Cond	-8,007	-8,007	36.41
Wall Cond	-3,499	-4,901	22.29
Partition	-3,080	-3,080	14.00
Exposed Floor	0	0	0.00
Infiltration	-1,388	-1,388	6.31
Sub Total ==>	-15,974	-18,953	86.18
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-498	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	-3,142	-3,142	14.29
Exhaust Heat		102	-0.46
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-19,614	-21,993	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.6	80.8
Plenum	78.8	66.5
Return	78.6	66.5
Ret/OA	78.6	66.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	59	59
Supply	1,380	1,380
MinStop/Rh	0	0
Return	1,439	1,439
Exhaust	59	59
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.36	1.36
cfm/ton	522.23	
ft²/ton	384.75	
Btu/hr·ft²	31.19	-21.64
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	2.6	31.7	29.2	1,379.6	78.6	63.8	64.9	59.6	56.3	62.5
Aux Clg	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	0.0
Total	2.6	31.7								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	1,016		
Part	378		
ExFlr	0		
Roof	1,016	0	0
Wall	1,352	357	26

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-22.0	1,379.6	66.5	80.8
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-22.0			

System Checksums

By DFG

System - 007 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr:
Outside Air: OADB/WB/HR: Sum of Peaks

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,749	2,749	13
Glass Solar	7,505	0	7,505	36
Glass Cond	4,456	0	4,456	21
Wall Cond	1,719	766	2,485	12
Partition	1,658		1,658	8
Exposed Floor	0		0	0
Infiltration	1,292		1,292	6
Sub Total ==>	16,630	3,515	20,144	96
Internal Loads				
Lights	341	0	341	2
People	500		500	2
Misc	0	0	0	0
Sub Total ==>	841	0	841	4
Ceiling Load	410	-410	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-84	-84	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	17,881	3,020	20,901	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	7,505	45
Glass Cond	4,456	27
Wall Cond	1,719	10
Partition	1,658	10
Exposed Floor	0	0
Infiltration	431	3
Sub Total ==>	15,769	94
Internal Loads		
Lights	341	2
People	250	1
Misc	0	0
Sub Total ==>	591	4
Ceiling Load	410	2
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	16,771	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-794	5.19
Glass Solar	0	0	0.00
Glass Cond	-7,777	-7,777	50.89
Wall Cond	-2,102	-3,132	20.49
Partition	-2,933	-2,933	19.19
Exposed Floor	0	0	0.00
Infiltration	-691	-691	4.52
Sub Total ==>	-13,503	-15,328	100.29
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-213	0	0.00
Ventilation Load	0	0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		44	-0.29
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Grand Total ==>	-13,716	-15,284	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.8	79.6
Plenum	77.6	66.7
Return	77.6	66.7
Ret/OA	77.6	66.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	30	30
Supply	1,058	1,058
MinStop/Rh	0	0
Return	1,087	1,087
Exhaust	30	30
Rm Exh	0	0
Auxiliary	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	2.09	2.09
cfm/ton	607.40	
ft²/ton	290.57	
Btu/hr·ft²	41.30	-30.20
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.7	20.9	19.8	1,058.0	77.6	63.4	64.9	60.8	57.0	63.4
Aux Clg	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	0.0
Total	1.7	20.9								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	506		
Part	360		
ExFlr	0		
Roof	506	0	0
Wall	982	347	35

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-15.3	1,058.0	66.7	79.6
Aux Htg	0.0	0	0	0
Preheat	0.0	0	0	0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-15.3			

Room Checksums

By DFG

Bedroom #1 2nd Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,529	2,529	23
Glass Solar	936	0	936	9
Glass Cond	1,645	0	1,645	15
Wall Cond	2,105	769	2,874	26
Partition	1,016		1,016	9
Exposed Floor	0		0	0
Infiltration	1,282		1,282	12
Sub Total ==>	6,984	3,297	10,282	93
Internal Loads				
Lights	341	0	341	3
People	500		500	5
Misc	0	0	0	0
Sub Total ==>	841	0	841	8
Ceiling Load	545	-545	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-112	-112	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	8,371	2,640	11,011	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 15
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	936	13
Glass Cond	1,645	23
Wall Cond	2,105	29
Partition	1,016	14
Exposed Floor	0	0
Infiltration	395	5
Sub Total ==>	6,098	84
Internal Loads		
Lights	341	5
People	250	3
Misc	0	0
Sub Total ==>	591	8
Ceiling Load	545	8
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	7,234	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-628	9
Glass Solar	0	0	0
Glass Cond	-2,508	-2,508	37
Wall Cond	-1,247	-1,726	26
Partition	-1,466	-1,466	22
Exposed Floor	0	0	0
Infiltration	-553	-553	8
Sub Total ==>	-5,775	-6,882	103
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-198	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		41	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		144	-2
Grand Total ==>	-5,973	-6,698	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.6	80.8
Plenum	79.3	66.5
Return	79.3	66.5
Ret/OA	79.3	66.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	24	24
Supply	420	420
MinStop/Rh	0	0
Return	444	444
Exhaust	24	24
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.04	1.04
cfm/ton	457.87	
ft²/ton	441.38	
Btu/hr·ft²	27.19	-16.54
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.9	11.0	9.9	420	79.3	64.0	64.9	59.6	55.4	58.9
Aux Clg	0.0	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	0.0
Total	0.9	11.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	405		
Part	180		
ExFlr	0		
Roof	405	0	0
Wall	462	112	24

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.7	420	66.5	80.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-6.7			

Room Checksums

By DFG

Bedroom #2 & Bath 2nd Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 15
Outside Air: OADB/WB/HR: 88 / 75 / 108

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,115	2,115	18
Glass Solar	2,550	0	2,550	22
Glass Cond	1,470	0	1,470	13
Wall Cond	2,592	844	3,436	29
Partition	451		451	4
Exposed Floor	0		0	0
Infiltration	964		964	8
Sub Total ==>	8,027	2,959	10,986	94
Internal Loads				
Lights	341	0	341	3
People	500		500	4
Misc	0	0	0	0
Sub Total ==>	841	0	841	7
Ceiling Load	458	-458	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-94	-94	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	9,326	2,408	11,733	100.00

CLG SPACE PEAK

Mo/Hr: 11 / 14
OADB: 82

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	5,056	57
Glass Cond	778	9
Wall Cond	1,740	20
Partition	201	2
Exposed Floor	0	0
Infiltration	168	2
Sub Total ==>	7,942	90
Internal Loads		
Lights	341	4
People	250	3
Misc	0	0
Sub Total ==>	591	7
Ceiling Load	298	3
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	8,831	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-564	7
Glass Solar	0	0	0
Glass Cond	-2,508	-2,508	31
Wall Cond	-1,803	-2,430	30
Partition	-733	-733	9
Exposed Floor	0	0	0
Infiltration	-496	-496	6
Sub Total ==>	-5,541	-6,731	82
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-178	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-1,572	-1,572	19
Exhaust Heat		37	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		91	-1
Grand Total ==>	-7,291	-8,176	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.6	80.8
Plenum	79.0	66.5
Return	79.0	66.5
Ret/OA	79.0	66.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	21	21
Supply	513	513
MinStop/Rh	0	0
Return	534	534
Exhaust	21	21
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.41	1.41
cfm/ton	524.50	
ft²/ton	371.66	
Btu/hr·ft²	32.29	-22.50
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.0	11.7	10.8	513	79.0	63.9	64.9	59.6	56.5	63.2
Aux Clg	0.0	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	0.0
Total	1.0	11.7								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	363		
Part	90		
ExFlr	0		
Roof	363	0	0
Wall	604	112	19

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-8.2	513	66.5	80.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-8.2			

Room Checksums

By DFG

Dinning Room

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	59	59	1
Glass Solar	785	0	785	12
Glass Cond	1,376	0	1,376	20
Wall Cond	195	157	352	5
Partition	2,257		2,257	33
Exposed Floor	0		0	0
Infiltration	1,111		1,111	16
Sub Total ==>	5,725	216	5,941	88
Internal Loads				
Lights	341	0	341	5
People	500		500	7
Misc	0	0	0	0
Sub Total ==>	841	0	841	12
Ceiling Load	51	-51	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-11	-11	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	6,618	154	6,772	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 15
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	785	14
Glass Cond	1,376	25
Wall Cond	195	3
Partition	2,257	40
Exposed Floor	0	0
Infiltration	342	6
Sub Total ==>	4,957	89
Internal Loads		
Lights	341	6
People	250	4
Misc	0	0
Sub Total ==>	591	11
Ceiling Load	51	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	5,599	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-15	0
Glass Solar	0	0	0
Glass Cond	-2,098	-2,098	33
Wall Cond	-250	-451	7
Partition	-3,259	-3,259	52
Exposed Floor	0	0	0
Infiltration	-479	-479	8
Sub Total ==>	-6,086	-6,302	100
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-48	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		10	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		12	0
Grand Total ==>	-6,134	-6,281	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.6	86.0
Plenum	75.5	67.6
Return	75.5	67.6
Ret/OA	75.5	67.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	20	20
Supply	306	306
MinStop/Rh	0	0
Return	327	327
Exhaust	20	20
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.87	0.87
cfm/ton	542.37	
ft²/ton	622.00	
Btu/hr·ft²	19.29	-17.89
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.6	6.8	5.8	306	75.5	62.7	64.9	58.6	55.3	60.2
Aux Clg	0.0	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	0.0
Total	0.6	6.8								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	351		
Part	400		
ExFlr	0		
Roof	9	0	0
Wall	184	94	51

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.3	306	67.6	86.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-6.3			

Room Checksums

By DFG

Family Room

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	160	160	1
Glass Solar	11,850	0	11,850	54
Glass Cond	5,580	0	5,580	26
Wall Cond	46	672	718	3
Partition	419		419	2
Exposed Floor	0		0	0
Infiltration	2,310		2,310	11
Sub Total ==>	20,206	832	21,038	96
Internal Loads				
Lights	341	0	341	2
People	500		500	2
Misc	0	0	0	0
Sub Total ==>	841	0	841	4
Ceiling Load	147	-147	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-30	-30	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	21,194	655	21,849	100.00

CLG SPACE PEAK

Mo/Hr: 9 / 17
OADB: 87

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	12,913	66
Glass Cond	4,937	25
Wall Cond	43	0
Partition	373	2
Exposed Floor	0	0
Infiltration	619	3
Sub Total ==>	18,885	96
Internal Loads		
Lights	341	2
People	250	1
Misc	0	0
Sub Total ==>	591	3
Ceiling Load	140	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	19,616	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-41	0
Glass Solar	0	0	0
Glass Cond	-9,178	-9,178	42
Wall Cond	-40	-629	3
Partition	-587	-587	3
Exposed Floor	0	0	0
Infiltration	-1,057	-1,057	5
Sub Total ==>	-10,862	-11,492	52
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-106	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-10,520	-10,520	48
Exhaust Heat		22	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-13	0
Grand Total ==>	-21,488	-22,003	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.6	86.0
Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	75.6	67.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	45	45
Supply	1,072	1,072
MinStop/Rh	0	0
Return	1,117	1,117
Exhaust	45	45
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.39	1.39
cfm/ton	588.91	
ft²/ton	425.10	
Btu/hr·ft²	28.23	-28.43
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	1.8	21.9	20.0	1,072	75.6	62.8	64.9	58.6	56.0	62.9
Aux Clg	0.0	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	0.0
Total	1.8	21.9								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	774		
Part	72		
ExFlr	0		
Roof	25	0	0
Wall	537	410	76

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-22.0	1,072	67.6	86.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-22.0			

Room Checksums

By DFG

Foyer 1rst Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 11 / 14
Outside Air: OADB/WB/HR: 82 / 69 / 87

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,191	2,191	8
Glass Solar	19,549	0	19,549	69
Glass Cond	2,780	0	2,780	10
Wall Cond	0	388	388	1
Partition	1,784		1,784	6
Exposed Floor	0		0	0
Infiltration	761		761	3
Sub Total ==>	24,874	2,579	27,453	97
Internal Loads				
Lights	341	0	341	1
People	500		500	2
Misc	0	0	0	0
Sub Total ==>	841	0	841	3
Ceiling Load	312	-312	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-64	-64	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	26,027	2,204	28,231	100.00

CLG SPACE PEAK

Mo/Hr: 11 / 13
OADB: 81

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	20,651	81
Glass Cond	2,470	10
Wall Cond	0	0
Partition	1,349	5
Exposed Floor	0	0
Infiltration	232	1
Sub Total ==>	24,702	97
Internal Loads		
Lights	341	1
People	250	1
Misc	0	0
Sub Total ==>	591	2
Ceiling Load	251	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	25,545	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-711	4
Glass Solar	0	0	0
Glass Cond	-8,965	-8,965	53
Wall Cond	0	-212	1
Partition	-6,518	-6,518	38
Exposed Floor	0	0	0
Infiltration	-773	-773	5
Sub Total ==>	-16,255	-17,178	101
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-938	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		193	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-15	0
Grand Total ==>	-17,193	-17,001	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.7	68.0
Plenum	76.7	62.8
Return	76.7	62.8
Ret/OA	76.7	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	33	33
Supply	1,601	0
MinStop/Rh	0	0
Return	1,634	0
Exhaust	33	33
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	2.83	0.00
cfm/ton	680.58	
ft²/ton	240.42	
Btu/hr·ft²	49.91	-30.40
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	2.4	28.2	27.5	1,584	76.7	63.2	65.2	60.7	57.4	65.2
Aux Clg	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	0.0
Total	2.4	28.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	566		
Part	800		
ExFlr	0		
Roof	566	0	0
Wall	456	400	88

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-17.2	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-17.2			

Room Checksums

By DFG

Guest Room

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	1,393	1,393	25
Glass Solar	203	0	203	4
Glass Cond	368	0	368	6
Wall Cond	1,404	447	1,851	33
Partition	361		361	6
Exposed Floor	0		0	0
Infiltration	689		689	12
Sub Total ==>	3,025	1,840	4,865	86
Internal Loads				
Lights	341	0	341	6
People	500		500	9
Misc	0	0	0	0
Sub Total ==>	841	0	841	15
Ceiling Load	166	-166	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-34	-34	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	4,032	1,640	5,672	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 15
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	203	6
Glass Cond	368	11
Wall Cond	1,404	42
Partition	361	11
Exposed Floor	0	0
Infiltration	213	6
Sub Total ==>	2,549	77
Internal Loads		
Lights	341	10
People	250	8
Misc	0	0
Sub Total ==>	591	18
Ceiling Load	166	5
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
System Plenum Heat		
Grand Total ==>	3,306	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-293	13
Glass Solar	0	0	0
Glass Cond	-560	-560	24
Wall Cond	-693	-881	38
Partition	-521	-521	23
Exposed Floor	0	0	0
Infiltration	-298	-298	13
Sub Total ==>	-2,073	-2,554	111
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-286	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		59	-3
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		195	-8
Grand Total ==>	-2,359	-2,300	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	77.4	63.9
Return	77.4	63.9
Ret/OA	77.4	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	13	13
Supply	166	0
MinStop/Rh	0	0
Return	179	0
Exhaust	13	13
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.76	0.00
cfm/ton	351.91	
ft²/ton	461.20	
Btu/hr·ft²	26.02	-10.82
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	5.7	5.0	166	77.4	63.4	65.1	57.2	51.8	48.7
Aux Clg	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	0.0
Total	0.5	5.7								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	218		
Part	64		
ExFlr	0		
Roof	218	0	0
Wall	209	25	12

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2.4	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2.4			

Room Checksums

By DFG

Gym

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 87 / 74 / 108

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	143	143	2
Glass Solar	698	0	698	10
Glass Cond	776	0	776	11
Wall Cond	2,630	830	3,460	49
Partition	521		521	7
Exposed Floor	0		0	0
Infiltration	629		629	9
Sub Total ==>	5,254	973	6,227	89
Internal Loads				
Lights	341	0	341	5
People	500		500	7
Misc	0	0	0	0
Sub Total ==>	841	0	841	12
Ceiling Load	189	-189	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-39	-39	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	6,285	745	7,030	100.00

CLG SPACE PEAK

Mo/Hr: 7 / 18
OADB: 87

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	698	12
Glass Cond	776	14
Wall Cond	2,630	47
Partition	521	9
Exposed Floor	0	0
Infiltration	190	3
Sub Total ==>	4,815	86
Internal Loads		
Lights	341	6
People	250	4
Misc	0	0
Sub Total ==>	591	11
Ceiling Load	189	3
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	5,595	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-34	1
Glass Solar	0	0	0
Glass Cond	-1,503	-1,503	32
Wall Cond	-1,732	-2,206	47
Partition	-815	-815	18
Exposed Floor	0	0	0
Infiltration	-338	-338	7
Sub Total ==>	-4,388	-4,896	105
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-325	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		67	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		183	-4
Grand Total ==>	-4,713	-4,646	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	77.4	63.9
Return	77.4	63.9
Ret/OA	77.4	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	14	14
Supply	282	0
MinStop/Rh	0	0
Return	296	0
Exhaust	14	14
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.14	0.00
cfm/ton	480.56	
ft²/ton	422.50	
Btu/hr·ft²	28.40	-19.04
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	Enter DB/WB/HR °F	Enter DB/WB/HR gr/lb	Leave DB/WB/HR °F	Leave DB/WB/HR °F	Leave DB/WB/HR gr/lb
Main Clg	0.6	7.0	6.3	282	77.4	63.4	65.1	57.2	55.1	61.6
Aux Clg	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	0.0
Total	0.6	7.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	248		
Part	100		
ExFlr	0		
Roof	25	0	0
Wall	528	67	13

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.7	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-4.7			

Room Checksums

By DFG

Hall & Stairs 1rst Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 18
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,654	2,654	24
Glass Solar	2,220	0	2,220	20
Glass Cond	2,086	0	2,086	19
Wall Cond	1,175	572	1,747	16
Partition	252		252	2
Exposed Floor	0		0	0
Infiltration	1,354		1,354	12
Sub Total ==>	7,087	3,227	10,314	93
Internal Loads				
Lights	341	0	341	3
People	500		500	5
Misc	0	0	0	0
Sub Total ==>	841	0	841	8
Ceiling Load	506	-506	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-104	-104	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	8,434	2,617	11,051	100.00

CLG SPACE PEAK

Mo/Hr: 7 / 19
OADB: 85

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	2,385	33
Glass Cond	1,710	24
Wall Cond	1,521	21
Partition	218	3
Exposed Floor	0	0
Infiltration	327	5
Sub Total ==>	6,161	85
Internal Loads		
Lights	341	5
People	250	3
Misc	0	0
Sub Total ==>	591	8
Ceiling Load	494	7
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	7,246	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-755	12
Glass Solar	0	0	0
Glass Cond	-3,759	-3,759	58
Wall Cond	-901	-1,366	21
Partition	-367	-367	6
Exposed Floor	0	0	0
Infiltration	-661	-661	10
Sub Total ==>	-5,688	-6,908	106
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-219	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		45	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		335	-5
Grand Total ==>	-5,907	-6,528	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	81.6
Plenum	78.3	66.6
Return	78.3	66.6
Ret/OA	78.3	66.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.1	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	28	28
Supply	390	390
MinStop/Rh	0	0
Return	418	418
Exhaust	28	28
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.81	0.81
cfm/ton	423.57	
ft²/ton	525.56	
Btu/hr·ft²	22.83	-13.49
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.9	11.1	9.9	390	78.3	63.7	64.9	58.2	54.3	56.6
Aux Clg	0.0	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	0.0
Total	0.9	11.1								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	484		
Part	45		
ExFlr	0		
Roof	484	0	0
Wall	446	168	38

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.5	390	66.6	81.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-6.5			

Room Checksums

By DFG

Hall 1rst Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 11
Outside Air: OADB/WB/HR: 84 / 73 / 102

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	57	57	1
Glass Solar	3,714	0	3,714	53
Glass Cond	795	0	795	11
Wall Cond	133	135	268	4
Partition	736		736	10
Exposed Floor	0		0	0
Infiltration	684		684	10
Sub Total ==>	6,062	192	6,254	88
Internal Loads				
Lights	341	0	341	5
People	500		500	7
Misc	0	0	0	0
Sub Total ==>	841	0	841	12
Ceiling Load	120	-120	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-25	-25	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	7,023	47	7,070	100.00

CLG SPACE PEAK

Mo/Hr: 9 / 10
OADB: 82

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	4,183	66
Glass Cond	631	10
Wall Cond	81	1
Partition	576	9
Exposed Floor	0	0
Infiltration	155	2
Sub Total ==>	5,626	89
Internal Loads		
Lights	341	5
People	250	4
Misc	0	0
Sub Total ==>	591	9
Ceiling Load	77	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	6,294	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-34	1
Glass Solar	0	0	0
Glass Cond	-1,976	-1,976	39
Wall Cond	-159	-298	6
Partition	-2,200	-2,200	43
Exposed Floor	0	0	0
Infiltration	-445	-445	9
Sub Total ==>	-4,780	-4,952	97
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-428	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		88	-2
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-256	5
Grand Total ==>	-5,207	-5,120	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	76.2	63.9
Return	76.2	63.9
Ret/OA	76.2	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	19	19
Supply	317	0
MinStop/Rh	0	0
Return	336	0
Exhaust	19	19
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.97	0.00
cfm/ton	537.46	
ft²/ton	552.62	
Btu/hr·ft²	21.71	-15.99
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.6	7.1	6.3	316	76.2	63.0	65.1	57.2	55.6	63.3
Aux Clg	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	0.0
Total	0.6	7.1								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	326		
Part	270		
ExFlr	0		
Roof	25	0	0
Wall	154	88	57

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.2	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-5.2			

Room Checksums

By DFG

Hallway 2nd Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,579	2,579	25
Glass Solar	2,864	0	2,864	28
Glass Cond	773	0	773	7
Wall Cond	0	85	85	1
Partition	2,096		2,096	20
Exposed Floor	0		0	0
Infiltration	1,266		1,266	12
Sub Total ==>	7,000	2,665	9,664	93
Internal Loads				
Lights	341	0	341	3
People	500		500	5
Misc	0	0	0	0
Sub Total ==>	841	0	841	8
Ceiling Load	622	-622	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-128	-128	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	8,463	1,915	10,378	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	2,864	39
Glass Cond	773	11
Wall Cond	0	0
Partition	2,096	29
Exposed Floor	0	0
Infiltration	384	5
Sub Total ==>	6,117	83
Internal Loads		
Lights	341	5
People	250	3
Misc	0	0
Sub Total ==>	591	8
Ceiling Load	622	8
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
System Plenum Heat		
Grand Total ==>	7,331	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-657	10
Glass Solar	0	0	0
Glass Cond	-1,272	-1,272	20
Wall Cond	0	-74	1
Partition	-2,933	-2,933	45
Exposed Floor	0	0	0
Infiltration	-579	-579	9
Sub Total ==>	-4,785	-5,516	85
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-211	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-775	-775	12
Exhaust Heat		43	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-234	4
Grand Total ==>	-5,771	-6,481	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.8	80.7
Plenum	79.6	66.4
Return	79.6	66.4
Ret/OA	79.6	66.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	25	25
Supply	407	407
MinStop/Rh	0	0
Return	431	431
Exhaust	25	25
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.96	0.96
cfm/ton	470.25	
ft²/ton	490.50	
Btu/hr·ft²	24.46	-15.28
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.9	10.4	9.3	407	79.6	64.1	64.9	58.8	55.8	61.6
Aux Clg	0.0	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	0.0
Total	0.9	10.4								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	424		
Part	360		
ExFlr	0		
Roof	424	0	0
Wall	73	57	78

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-6.5	407	66.4	80.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-6.5			

Room Checksums

By DFG

Kitchen

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 17
Outside Air: OADB/WB/HR: 87 / 75 / 110

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	145	145	1
Glass Solar	4,087	0	4,087	37
Glass Cond	1,457	0	1,457	13
Wall Cond	379	376	755	7
Partition	373		373	3
Exposed Floor	0		0	0
Infiltration	1,291		1,291	12
Sub Total ==>	7,588	521	8,109	73
Internal Loads				
Lights	341	0	341	3
People	500		500	4
Misc	0	0	0	0
Sub Total ==>	841	0	841	8
Ceiling Load	89	-89	0	0
Ventilation Load	0	0	2,259	20
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-50	-50	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	8,518	382	11,159	100.00

CLG SPACE PEAK

Mo/Hr: 11 / 16
OADB: 82

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	5,293	70
Glass Cond	840	11
Wall Cond	303	4
Partition	203	3
Exposed Floor	0	0
Infiltration	226	3
Sub Total ==>	6,865	91
Internal Loads		
Lights	341	5
People	250	3
Misc	0	0
Sub Total ==>	591	8
Ceiling Load	57	1
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	7,514	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-41	0
Glass Solar	0	0	0
Glass Cond	-2,708	-2,708	28
Wall Cond	-240	-478	5
Partition	-587	-587	6
Exposed Floor	0	0	0
Infiltration	-669	-669	7
Sub Total ==>	-4,205	-4,483	47
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-67	0	0
Ventilation Load	0	-1,171	12
Ov/Undr Sizing	-3,959	-3,959	41
Exhaust Heat		38	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		1	0
Grand Total ==>	-8,231	-9,575	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.6	86.0
Plenum	75.6	67.6
Return	75.6	67.6
Ret/OA	77.0	65.1
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	50	50
Infil	29	29
Supply	411	411
MinStop/Rh	0	0
Return	439	439
Exhaust	79	79
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	12.2	12.2
cfm/ft²	0.84	0.84
cfm/ton	441.66	
ft²/ton	526.94	
Btu/hr·ft²	22.77	-19.54
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.9	11.2	8.4	411	77.0	64.4	70.4	58.6	55.5	61.0
Aux Clg	0.0	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	0.0
Total	0.9	11.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	490		
Part	72		
ExFlr	0		
Roof	25	0	0
Wall	217	121	56

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.6	411	65.1	86.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-9.6			

Room Checksums

By DFG

Laundry 1rst Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	56	56	1
Glass Solar	569	0	569	13
Glass Cond	326	0	326	7
Wall Cond	1,367	393	1,759	39
Partition	586		586	13
Exposed Floor	0		0	0
Infiltration	354		354	8
Sub Total ==>	3,202	449	3,651	82
Internal Loads				
Lights	341	0	341	8
People	500		500	11
Misc	0	0	0	0
Sub Total ==>	841	0	841	19
Ceiling Load	139	-139	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-28	-28	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	4,182	282	4,464	100.00

CLG SPACE PEAK

Mo/Hr: 7 / 17
OADB: 88

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	569	15
Glass Cond	326	9
Wall Cond	1,367	37
Partition	586	16
Exposed Floor	0	0
Infiltration	106	3
Sub Total ==>	2,953	80
Internal Loads		
Lights	341	9
People	250	7
Misc	0	0
Sub Total ==>	591	16
Ceiling Load	139	4
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	3,683	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-14	0
Glass Solar	0	0	0
Glass Cond	-577	-577	17
Wall Cond	-952	-1,241	37
Partition	-880	-880	27
Exposed Floor	0	0	0
Infiltration	-172	-172	5
Sub Total ==>	-2,582	-2,884	87
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-57	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-364	-364	11
Exhaust Heat		12	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-82	2
Grand Total ==>	-3,003	-3,318	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	81.6
Plenum	78.5	66.6
Return	78.5	66.6
Ret/OA	78.5	66.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.1	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	7	7
Supply	198	198
MinStop/Rh	0	0
Return	206	206
Exhaust	7	7
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.57	1.57
cfm/ton	533.11	
ft²/ton	338.74	
Btu/hr·ft²	35.42	-26.34
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.4	4.5	4.0	198	78.5	63.8	64.9	58.2	56.3	64.9
Aux Clg	0.0	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	0.0
Total	0.4	4.5								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	126		
Part	108		
ExFlr	0		
Roof	9	0	0
Wall	276	26	9

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-3.3	198	66.6	81.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-3.3			

Room Checksums

By DFG

Laundry 2nd Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 11 / 14
Outside Air: OADB/WB/HR: 82 / 69 / 87

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	944	944	11
Glass Solar	5,379	0	5,379	60
Glass Cond	928	0	928	10
Wall Cond	215	114	329	4
Partition	241		241	3
Exposed Floor	0		0	0
Infiltration	336		336	4
Sub Total ==>	7,099	1,058	8,156	91
Internal Loads				
Lights	341	0	341	4
People	500		500	6
Misc	0	0	0	0
Sub Total ==>	841	0	841	9
Ceiling Load	203	-203	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-42	-42	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	8,143	813	8,956	100.00

CLG SPACE PEAK

Mo/Hr: 11 / 13
OADB: 81

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	5,684	74
Glass Cond	824	11
Wall Cond	142	2
Partition	182	2
Exposed Floor	0	0
Infiltration	102	1
Sub Total ==>	6,934	90
Internal Loads		
Lights	341	4
People	250	3
Misc	0	0
Sub Total ==>	591	8
Ceiling Load	164	2
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	7,690	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-385	5
Glass Solar	0	0	0
Glass Cond	-2,991	-2,991	42
Wall Cond	-448	-745	10
Partition	-880	-880	12
Exposed Floor	0	0	0
Infiltration	-339	-339	5
Sub Total ==>	-4,658	-5,340	75
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-122	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-1,570	-1,570	22
Exhaust Heat		25	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-235	3
Grand Total ==>	-6,350	-7,120	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.6	80.8
Plenum	77.6	66.5
Return	77.6	66.5
Ret/OA	77.6	66.5
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	14	14
Supply	447	447
MinStop/Rh	0	0
Return	461	461
Exhaust	14	14
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.80	1.80
cfm/ton	598.39	
ft²/ton	332.29	
Btu/hr·ft²	36.11	-28.71
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.8	9.0	8.5	447	77.6	63.5	64.9	59.6	56.9	64.9
Aux Clg	0.0	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	0.0
Total	0.8	9.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	248		
Part	108		
ExFlr	0		
Roof	248	0	0
Wall	286	133	47

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-7.1	447	66.5	80.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-7.1			

Room Checksums

By DFG

Living Room

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 90 / 77 / 118

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	3,595	3,595	18
Glass Solar	3,323	0	3,323	17
Glass Cond	5,823	0	5,823	29
Wall Cond	0	209	209	1
Partition	4,515		4,515	23
Exposed Floor	0		0	0
Infiltration	1,785		1,785	9
Sub Total ==>	15,445	3,804	19,249	96
Internal Loads				
Lights	341	0	341	2
People	500		500	3
Misc	0	0	0	0
Sub Total ==>	841	0	841	4
Ceiling Load	507	-507	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-104	-104	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	16,793	3,194	19,986	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 15
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	3,323	22
Glass Cond	5,823	38
Wall Cond	0	0
Partition	4,515	29
Exposed Floor	0	0
Infiltration	552	4
Sub Total ==>	14,212	93
Internal Loads		
Lights	341	2
People	250	2
Misc	0	0
Sub Total ==>	591	4
Ceiling Load	507	3
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	15,310	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-711	4
Glass Solar	0	0	0
Glass Cond	-8,875	-8,875	52
Wall Cond	0	-242	1
Partition	-6,518	-6,518	39
Exposed Floor	0	0	0
Infiltration	-773	-773	5
Sub Total ==>	-16,166	-17,119	101
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-938	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		193	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		15	0
Grand Total ==>	-17,104	-16,911	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.7	68.0
Plenum	77.8	62.8
Return	77.8	62.8
Ret/OA	77.8	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	33	33
Supply	960	0
MinStop/Rh	0	0
Return	993	0
Exhaust	33	33
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.70	0.00
cfm/ton	576.15	
ft²/ton	339.59	
Btu/hr·ft²	35.34	-30.24
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.7	20.0	18.5	960	77.8	63.6	65.2	60.7	56.8	62.7
Aux Clg	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	0.0
Total	1.7	20.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	566		
Part	800		
ExFlr	0		
Roof	566	0	0
Wall	460	396	86

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-17.1	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-17.1			

Room Checksums

By DFG

Lounge

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 17
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	159	159	3
Glass Solar	739	0	739	14
Glass Cond	1,174	0	1,174	21
Wall Cond	242	186	428	8
Partition	1,085		1,085	20
Exposed Floor	0		0	0
Infiltration	1,108		1,108	20
Sub Total ==>	4,348	344	4,692	86
Internal Loads				
Lights	341	0	341	6
People	500		500	9
Misc	0	0	0	0
Sub Total ==>	841	0	841	15
Ceiling Load	312	-312	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-64	-64	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	5,501	-31	5,469	100.00

CLG SPACE PEAK

Mo/Hr: 7 / 18
OADB: 87

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	910	20
Glass Cond	1,073	24
Wall Cond	256	6
Partition	1,042	23
Exposed Floor	0	0
Infiltration	303	7
Sub Total ==>	3,584	80
Internal Loads		
Lights	341	8
People	250	6
Misc	0	0
Sub Total ==>	591	13
Ceiling Load	302	7
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	4,477	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-34	1
Glass Solar	0	0	0
Glass Cond	-2,080	-2,080	43
Wall Cond	-231	-391	8
Partition	-1,629	-1,629	33
Exposed Floor	0	0	0
Infiltration	-539	-539	11
Sub Total ==>	-4,479	-4,673	96
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-518	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		106	-2
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-325	7
Grand Total ==>	-4,998	-4,891	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	77.5	63.9
Return	77.5	63.9
Ret/OA	77.5	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	23	23
Supply	225	0
MinStop/Rh	0	0
Return	248	0
Exhaust	23	23
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.57	0.00
cfm/ton	494.22	
ft²/ton	866.21	
Btu/hr·ft²	13.85	-12.66
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.5	5.5	4.4	225	77.5	63.4	65.1	57.2	55.4	62.7
Aux Clg	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	0.0
Total	0.5	5.5								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	395		
Part	200		
ExFlr	0		
Roof	25	0	0
Wall	178	93	52

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-5.0	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-5.0			

Room Checksums

By DFG

Pool House

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 9 / 14
Outside Air: OADB/WB/HR: 88 / 74 / 106

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	2,749	2,749	13
Glass Solar	7,505	0	7,505	36
Glass Cond	4,456	0	4,456	21
Wall Cond	1,719	766	2,485	12
Partition	1,658		1,658	8
Exposed Floor	0		0	0
Infiltration	1,292		1,292	6
Sub Total ==>	16,630	3,515	20,144	96
Internal Loads				
Lights	341	0	341	2
People	500		500	2
Misc	0	0	0	0
Sub Total ==>	841	0	841	4
Ceiling Load	410	-410	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-84	-84	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	17,881	3,020	20,901	100.00

CLG SPACE PEAK

Mo/Hr: 9 / 14
OADB: 88

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	7,505	45
Glass Cond	4,456	27
Wall Cond	1,719	10
Partition	1,658	10
Exposed Floor	0	0
Infiltration	431	3
Sub Total ==>	15,769	94
Internal Loads		
Lights	341	2
People	250	1
Misc	0	0
Sub Total ==>	591	4
Ceiling Load	410	2
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	16,771	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-794	5
Glass Solar	0	0	0
Glass Cond	-7,777	-7,777	51
Wall Cond	-2,102	-3,132	20
Partition	-2,933	-2,933	19
Exposed Floor	0	0	0
Infiltration	-691	-691	5
Sub Total ==>	-13,503	-15,328	100
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-213	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		44	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		0	0
Grand Total ==>	-13,716	-15,284	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.8	79.6
Plenum	77.6	66.7
Return	77.6	66.7
Ret/OA	77.6	66.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	30	30
Supply	1,058	1,058
MinStop/Rh	0	0
Return	1,087	1,087
Exhaust	30	30
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	2.09	2.09
cfm/ton	607.40	
ft²/ton	290.57	
Btu/hr·ft²	41.30	-30.20
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.7	20.9	19.8	1,058	77.6	63.4	64.9	60.8	57.0	63.4
Aux Clg	0.0	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	0.0
Total	1.7	20.9								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	506		
Part	360		
ExFlr	0		
Roof	506	0	0
Wall	982	347	35

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-15.3	1,058	66.7	79.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-15.3			

Room Checksums

By DFG

Primary MAster Room Bath & WC

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 90 / 76 / 116

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	7,693	7,693	25
Glass Solar	5,675	0	5,675	18
Glass Cond	5,179	0	5,179	17
Wall Cond	4,353	1,634	5,987	19
Partition	2,103		2,103	7
Exposed Floor	0		0	0
Infiltration	3,676		3,676	12
Sub Total ==>	20,985	9,327	30,312	98
Internal Loads				
Lights	341	0	341	1
People	500		500	2
Misc	0	0	0	0
Sub Total ==>	841	0	841	3
Ceiling Load	1,807	-1,807	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-371	-371	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	23,633	7,149	30,783	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 90

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	5,675	27
Glass Cond	5,179	25
Wall Cond	4,353	21
Partition	2,103	10
Exposed Floor	0	0
Infiltration	1,157	6
Sub Total ==>	18,466	89
Internal Loads		
Lights	341	2
People	250	1
Misc	0	0
Sub Total ==>	591	3
Ceiling Load	1,807	9
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	20,864	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-1,875	10
Glass Solar	0	0	0
Glass Cond	-8,061	-8,061	44
Wall Cond	-3,176	-4,495	24
Partition	-2,933	-2,933	16
Exposed Floor	0	0	0
Infiltration	-1,653	-1,653	9
Sub Total ==>	-15,823	-19,018	103
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-601	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		123	-1
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		447	-2
Grand Total ==>	-16,424	-18,447	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.8	80.7
Plenum	79.7	66.4
Return	79.7	66.4
Ret/OA	79.7	66.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	71	71
Supply	1,158	1,158
MinStop/Rh	0	0
Return	1,228	1,228
Exhaust	71	71
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.96	0.96
cfm/ton	451.24	
ft²/ton	471.81	
Btu/hr·ft²	25.43	-15.24
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	2.6	30.8	28.0	1,158	79.7	64.2	64.9	58.8	55.4	60.2
Aux Clg	0.0	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	0.0
Total	2.6	30.8								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	1,210		
Part	360		
ExFlr	0		
Roof	1,210	0	0
Wall	1,273	360	28

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-18.5	1,158	66.4	80.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-18.5			

Room Checksums

By DFG

Staff Room

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 17
Outside Air: OADB/WB/HR: 89 / 76 / 116

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	56	56	1
Glass Solar	1,207	0	1,207	23
Glass Cond	326	0	326	6
Wall Cond	899	263	1,163	22
Partition	1,153		1,153	22
Exposed Floor	0		0	0
Infiltration	530		530	10
Sub Total ==>	4,115	319	4,434	85
Internal Loads				
Lights	341	0	341	7
People	500		500	10
Misc	0	0	0	0
Sub Total ==>	841	0	841	16
Ceiling Load	191	-191	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-39	-39	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	5,148	89	5,236	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 17
OADB: 89

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	1,207	27
Glass Cond	326	7
Wall Cond	899	20
Partition	1,153	25
Exposed Floor	0	0
Infiltration	161	4
Sub Total ==>	3,746	83
Internal Loads		
Lights	341	8
People	250	6
Misc	0	0
Sub Total ==>	591	13
Ceiling Load	191	4
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	4,528	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-14	0
Glass Solar	0	0	0
Glass Cond	-536	-536	13
Wall Cond	-699	-917	22
Partition	-1,613	-1,613	40
Exposed Floor	0	0	0
Infiltration	-243	-243	6
Sub Total ==>	-3,091	-3,323	81
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-80	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-520	-520	13
Exhaust Heat		17	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-253	6
Grand Total ==>	-3,691	-4,079	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.3	81.6
Plenum	78.4	66.6
Return	78.4	66.6
Ret/OA	78.4	66.6
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.1	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	10	10
Supply	244	244
MinStop/Rh	0	0
Return	254	254
Exhaust	10	10
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.37	1.37
cfm/ton	558.65	
ft²/ton	407.02	
Btu/hr·ft²	29.48	-22.97
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.4	5.2	4.6	244	78.4	63.7	64.9	58.2	56.3	64.9
Aux Clg	0.0	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	0.0
Total	0.4	5.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	178		
Part	198		
ExFlr	0		
Roof	9	0	0
Wall	209	24	11

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.1	244	66.6	81.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-4.1			

Room Checksums

By DFG

Study Room 1rst Floor

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 18
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	139	139	2
Glass Solar	954	0	954	12
Glass Cond	801	0	801	10
Wall Cond	3,452	1,066	4,517	55
Partition	151		151	2
Exposed Floor	0		0	0
Infiltration	791		791	10
Sub Total ==>	6,150	1,205	7,354	90
Internal Loads				
Lights	341	0	341	4
People	500		500	6
Misc	0	0	0	0
Sub Total ==>	841	0	841	10
Ceiling Load	218	-218	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-45	-45	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	7,209	942	8,151	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 18
OADB: 88

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	954	15
Glass Cond	801	13
Wall Cond	3,452	54
Partition	151	2
Exposed Floor	0	0
Infiltration	234	4
Sub Total ==>	5,592	87
Internal Loads		
Lights	341	5
People	250	4
Misc	0	0
Sub Total ==>	591	9
Ceiling Load	218	3
Ventilation Load	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	6,401	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-34	1
Glass Solar	0	0	0
Glass Cond	-1,443	-1,443	33
Wall Cond	-2,034	-2,575	59
Partition	-220	-220	5
Exposed Floor	0	0	0
Infiltration	-387	-387	9
Sub Total ==>	-4,085	-4,659	106
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-372	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	0	0	0
Exhaust Heat		76	-2
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		202	-5
Grand Total ==>	-4,457	-4,381	100.00

TEMPERATURES

	Cooling	Heating
SADB	57.2	68.0
Plenum	77.4	63.9
Return	77.4	63.9
Ret/OA	77.4	47.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	17	17
Supply	322	0
MinStop/Rh	0	0
Return	339	0
Exhaust	17	17
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.14	0.00
cfm/ton	474.16	
ft²/ton	417.39	
Btu/hr·ft²	28.75	-15.72
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	0.7	8.2	7.3	322	77.4	63.4	65.1	57.2	55.0	61.2
Aux Clg	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	0.0
Total	0.7	8.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	284		
Part	27		
ExFlr	0		
Roof	25	0	0
Wall	602	64	11

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-4.5	0	0.0	0.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-4.5			

Room Checksums

By DFG

Theater

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 11 / 14
Outside Air: OADB/WB/HR: 82 / 69 / 87

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	1,412	1,412	11
Glass Solar	7,252	0	7,252	59
Glass Cond	1,065	0	1,065	9
Wall Cond	680	293	973	8
Partition	401		401	3
Exposed Floor	0		0	0
Infiltration	504		504	4
Sub Total ==>	9,902	1,705	11,607	94
Internal Loads				
Lights	341	0	341	3
People	500		500	4
Misc	0	0	0	0
Sub Total ==>	841	0	841	7
Ceiling Load	321	-321	0	0
Ventilation Load	0	0	0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		-66	-66	-1
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Reheat at Design			0	0
Grand Total ==>	11,065	1,317	12,382	100.00

CLG SPACE PEAK

Mo/Hr: 11 / 14
OADB: 82

	Space Sensible Btu/h	Percent Of Total (%)
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	7,252	69
Glass Cond	1,065	10
Wall Cond	680	6
Partition	401	4
Exposed Floor	0	0
Infiltration	172	2
Sub Total ==>	9,569	91
Lights	341	3
People	250	2
Misc	0	0
Sub Total ==>	591	6
	321	3
	0	0
	0	0
Grand Total ==>	10,482	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 47

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0
Skylite Cond	0	0	0
Roof Cond	0	-576	6
Glass Solar	0	0	0
Glass Cond	-3,434	-3,434	37
Wall Cond	-927	-1,376	15
Partition	-1,466	-1,466	16
Exposed Floor	0	0	0
Infiltration	-508	-508	5
Sub Total ==>	-6,335	-7,361	79
Internal Loads			
Lights	0	0	0
People	0	0	0
Misc	0	0	0
Sub Total ==>	0	0	0
Ceiling Load	-185	0	0
Ventilation Load	0	0	0
Ov/Undr Sizing	-1,732	-1,732	19
Exhaust Heat		38	0
OA Preheat Diff.		0	0
RA Preheat Diff.		0	0
Additional Reheat		0	0
System Plenum Heat		-213	2
Grand Total ==>	-8,252	-9,268	100.00

TEMPERATURES

	Cooling	Heating
SADB	58.8	80.7
Plenum	77.7	66.4
Return	77.7	66.4
Ret/OA	77.7	66.4
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Vent	0	0
Infil	22	22
Supply	582	582
MinStop/Rh	0	0
Return	603	603
Exhaust	22	22
Rm Exh	0	0
Auxil	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.56	1.56
cfm/ton	563.59	
ft²/ton	360.51	
Btu/hr·ft²	33.29	-24.91
No. People	1	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	1.0	12.4	11.8	582	77.7	63.5	64.9	58.8	56.5	64.6
Aux Clg	0.0	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	0.0
Total	1.0	12.4								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	372		
Part	180		
ExFlr	0		
Roof	372	0	0
Wall	433	153	35

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-9.3	582	66.4	80.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-9.3			

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Hall & Stairs 1rst Floor **Zone Description: Zone - 001** **System Description: System - 001**

GENERAL INFORMATION

Floor Area:	484 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 % Height Above Floor: 0 ft
Floor Multiplier:	1 Moisture Capacitance: None
Room Multiplier:	1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	484 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	446 ft²	315	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	168	0.24	1.04	Overhang -	None	1.00				
Partition - 1	45 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Laundry 1rst Floor **Zone Description: Zone - 001** **System Description: System - 001**

GENERAL INFORMATION

Floor Area:	126 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 % Height Above Floor: 0 ft
Floor Multiplier:	1 Moisture Capacitance: None
Room Multiplier:	1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	9 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	111 ft²	315	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	12	0.24	1.04	Overhang - None	None	1.00				
Wall - 2	165 ft²	45	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	14	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	108 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Staff Room | **Zone Description: Zone - 001** | **System Description: System - 001**

GENERAL INFORMATION

Floor Area:	178 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	9 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	209 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	24	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	108 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	90 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Dinning Room | **Zone Description: Zone - 002** | **System Description: System - 002**

GENERAL INFORMATION

Floor Area:	351 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	9 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	184 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	94	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	200 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	200 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Family Room | **Zone Description: Zone - 002** | **System Description: System - 002**

GENERAL INFORMATION

Floor Area:	774 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 2	289 ft²	225	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	257	0.24	1.04	Overhang - 10Ft	None	1.00				
Wall - 1	248 ft²	315	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	152	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	72 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Kitchen | **Zone Description: Zone - 002** | **System Description: System - 002**

GENERAL INFORMATION

Floor Area:	490 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	50.00 cfm	50.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	217 ft²	225	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	121	0.24	1.04	Overhang - 10Ft	None	1.00				
Partition - 1	72 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Foyer 1rst Floor | **Zone Description: Zone - 003** | **System Description: System - 003**

GENERAL INFORMATION

Floor Area: 566 ft²
Flr-Flr Height: 9.0 ft
Plenum Height: 2.0 ft
Floor Cnstr Type: 4* LW Concrete
Room Mass: None
Ceiling R-Value: 1.786 hr·ft²·°F/Btu
Is There Carpet?: YES
Design Clg DB: 75.0 °F
Design Htg DB: 68.0 °F
Design RH: 50 % Height Above Floor: 0 ft
Floor Multiplier: 1 Moisture Capacitance: None
Room Multiplier: 1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type: None
# of People: 1 People
People Sensible: 250 Btu/h
People Latent : 250 Btu/h
People Schedule: Cooling Only (Design)
Lighting Type: Fluorescent, hung below ceiling, 100% load to space
Fixture Type: SUSFLUOR
% Load to RA: 0 %
Lighting Schedule: Cooling Only (Design)
Lighting Amount: 100.0 W
Ballast Factor: 1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	566 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	456 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	400	0.24	1.04	Overhang - None	None	1.00				
Partition - 2	400 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	400 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Living Room | **Zone Description: Zone - 003** | **System Description: System - 003**

GENERAL INFORMATION

Floor Area: 566 ft²
Flr-Flr Height: 9.0 ft
Plenum Height: 2.0 ft
Floor Cnstr Type: 4* LW Concrete
Room Mass: None
Ceiling R-Value: 1.786 hr·ft²·°F/Btu
Is There Carpet?: YES
Design Clg DB: 75.0 °F
Design Htg DB: 68.0 °F
Design RH: 50 % Height Above Floor: 0 ft
Floor Multiplier: 1 Moisture Capacitance: None
Room Multiplier: 1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type: None
# of People: 1 People
People Sensible: 250 Btu/h
People Latent : 250 Btu/h
People Schedule: Cooling Only (Design)
Lighting Type: Fluorescent, hung below ceiling, 100% load to space
Fixture Type: SUSFLUOR
% Load to RA: 0 %
Lighting Schedule: Cooling Only (Design)
Lighting Amount: 100.0 W
Ballast Factor: 1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	566 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	460 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	396	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	400 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	400 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Guest Room | **Zone Description: Zone - 004** | **System Description: System - 004**

GENERAL INFORMATION

Floor Area:	218 ft²		
Flr-Flr Height:	9.0 ft		
Plenum Height:	2.0 ft		
Floor Cnstr Type:	4* LW Concrete		
Room Mass:	None		
Ceiling R-Value:	1.786 hr·ft²·°F/Btu		
Is There Carpet?:	YES		
Design Clg DB:	75.0 °F		
Design Htg DB:	68.0 °F		
Design RH:	50 %	Height Above Floor:	0 ft
Floor Multiplier:	1	Moisture Capacitance:	None
Room Multiplier:	1	Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	218 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	209 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	25	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	64 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Gym | **Zone Description: Zone - 004** | **System Description: System - 004**

GENERAL INFORMATION

Floor Area:	248 ft²		
Flr-Flr Height:	9.0 ft		
Plenum Height:	2.0 ft		
Floor Cnstr Type:	4* LW Concrete		
Room Mass:	None		
Ceiling R-Value:	1.786 hr·ft²·°F/Btu		
Is There Carpet?:	YES		
Design Clg DB:	75.0 °F		
Design Htg DB:	68.0 °F		
Design RH:	50 %	Height Above Floor:	0 ft
Floor Multiplier:	1	Moisture Capacitance:	None
Room Multiplier:	1	Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 3	165 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90		0			Overhang - None	None	1.00				
Wall - 2	198 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	67	0.24	1.04	Overhang - None	None	1.00				
Wall - 1	165 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90		0			Overhang - 10Ft	None	1.00				
Partition - 1	100 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Hall 1rst Floor | **Zone Description: Zone - 004** | **System Description: System - 004**

GENERAL INFORMATION

Floor Area:	326 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	154 ft²	135	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	88	0.24	1.04	Overhang - None	None	1.00				
Partition - 3	90 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	90 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	90 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Lounge | **Zone Description: Zone - 004** | **System Description: System - 004**

GENERAL INFORMATION

Floor Area:	395 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	178 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	93	0.24	1.04	Overhang - 10Ft	None	1.00				
Partition - 1	100 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	100 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Study Room 1rst Floor **Zone Description: Zone - 004** **System Description: System - 004**

GENERAL INFORMATION

Floor Area:	284 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	25 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 3	308 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	9	0.24	1.04	Overhang - 10Ft	None	1.00				
Wall - 1	162 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	28	0.24	1.04	Overhang - 10Ft	None	1.00				
Wall - 2	132 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	28	0.24	1.04	Overhang - 10Ft	None	1.00				
Partition - 1	27 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Hallway 2nd Floor **Zone Description: Zone - 005** **System Description: System - 005**

GENERAL INFORMATION

Floor Area:	424 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	424 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	73 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	57	0.24	1.04	Overhang - None	None	1.00				
Partition - 2	180 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	180 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Primary MAster Room Bath & WC **Zone Description: Zone - 005** **System Description: System - 005**

GENERAL INFORMATION

Floor Area:	1,210 ft²		
Flr-Flr Height:	9.0 ft		
Plenum Height:	2.0 ft		
Floor Cnstr Type:	4* LW Concrete		
Room Mass:	None		
Ceiling R-Value:	1.786 hr·ft²·°F/Btu		
Is There Carpet?:	YES		
Design Clg DB:	75.0 °F		
Design Htg DB:	68.0 °F		
Design RH:	50 %	Height Above Floor:	0 ft
Floor Multiplier:	1	Moisture Capacitance:	None
Room Multiplier:	1	Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	1,210 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 4	495 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	129	0.24	1.04	Overhang - None	None	1.00				
Wall - 2	330 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	23	0.24	1.04	Overhang - None	None	1.00				
Wall - 3	143 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	53	0.24	1.04	Overhang - None	None	1.00				
Wall - 1	305 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	154	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	180 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	180 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Theater **Zone Description: Zone - 005** **System Description: System - 005**

GENERAL INFORMATION

Floor Area:	372 ft²		
Flr-Flr Height:	9.0 ft		
Plenum Height:	2.0 ft		
Floor Cnstr Type:	4* LW Concrete		
Room Mass:	None		
Ceiling R-Value:	1.786 hr·ft²·°F/Btu		
Is There Carpet?:	YES		
Design Clg DB:	75.0 °F		
Design Htg DB:	68.0 °F		
Design RH:	50 %	Height Above Floor:	0 ft
Floor Multiplier:	1	Moisture Capacitance:	None
Room Multiplier:	1	Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	372 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 1	173 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	9	0.24	1.04	Overhang - None	None	1.00				
Wall - 2	261 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	144	0.24	1.04	Overhang - None	None	1.00				
Partition - 2	90 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	90 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Bedroom #1 2nd Floor **Zone Description: Zone - 006** **System Description: System - 006**

GENERAL INFORMATION

Floor Area:	405 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 % Height Above Floor: 0 ft
Floor Multiplier:	1 Moisture Capacitance: None
Room Multiplier:	1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	405 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 2	264 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	9	0.24	1.04	Overhang - None	None	1.00				
Wall - 1	198 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	103	0.24	1.04	Overhang - None	None	1.00				
Partition - 2	90 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	90 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Bedroom #2 & Bath 2nd Floor **Zone Description: Zone - 006** **System Description: System - 006**

GENERAL INFORMATION

Floor Area:	363 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 % Height Above Floor: 0 ft
Floor Multiplier:	1 Moisture Capacitance: None
Room Multiplier:	1 Humidistat Location: Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	Glass External Shading	Glass Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	363 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 2	193 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	103	0.24	1.04	Overhang - None	None	1.00				
Wall - 3	153 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90		0			Overhang - 10Ft	None	1.00				
Wall - 1	259 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	9	0.24	1.04	Overhang - 10Ft	None	1.00				
Partition - 2	45 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 1	45 ft²			0.75* Gyp Frame	0.39								Hourly C				

ENTERED VALUES
ROOM BY ROOM
By DFG

Room Description: Laundry 2nd Floor | **Zone Description: Zone - 006** | **System Description: System - 006**

GENERAL INFORMATION

Floor Area:	248 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	248 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 2	143 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	27	0.24	1.04	Overhang - None	None	1.00				
Wall - 1	143 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Coated 1/4*	107	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	108 ft²			0.75* Gyp Frame	0.39								Hourly C				

Room Description: Pool House | **Zone Description: Zone - 007** | **System Description: System - 007**

GENERAL INFORMATION

Floor Area:	506 ft²
Flr-Flr Height:	9.0 ft
Plenum Height:	2.0 ft
Floor Cnstr Type:	4* LW Concrete
Room Mass:	None
Ceiling R-Value:	1.786 hr·ft²·°F/Btu
Is There Carpet?:	YES
Design Clg DB:	75.0 °F
Design Htg DB:	68.0 °F
Design RH:	50 %
Height Above Floor:	0 ft
Floor Multiplier:	1
Moisture Capacitance:	None
Room Multiplier:	1
Humidistat Location:	Room

PEOPLE AND LIGHTS

People Type:	None
# of People:	1 People
People Sensible:	250 Btu/h
People Latent :	250 Btu/h
People Schedule:	Cooling Only (Design)
Lighting Type:	Fluorescent, hung below ceiling, 100% load to space
Fixture Type:	SUSFLUOR
% Load to RA:	0 %
Lighting Schedule:	Cooling Only (Design)
Lighting Amount:	100.0 W
Ballast Factor:	1.0

AIRFLOW INFORMATION

	Cooling	Heating
Vent Type:	None	None
Vent Value:	0.00 cfm	0.00 cfm
Vent Schedule:	Available (100%)	
Infil Type:	Neutral, Average Const.	Neutral, Average Const.
Infil Value:	0.50 air changes/hr	0.50 air changes/hr
Infil Schedule:	Available (100%)	
Vav Min Airflow:		
Vav Min Sched:	Available (100%)	
Supply:	To be calculated	To be calculated
Aux Supply:	To be calculated	To be calculated
Room Exhaust:		

ROOM COMPONENTS

Description	Area/ Amount	Dir	Tilt	Const Type/ Schedule	U Value Btu/h·ft²·°F	Alpha	Glass Type	Glass Area ft²	Glass Shade Coef	Glass U Value Btu/h·ft²·°F	External Shading	Internal Shading	Adj Temp/ Grnd Refl	Pct Sen/ Cool Tmp	Pct Rm/ Heat Tmp	Pct Ret/ Perm Len	Rad Frc/ Loss Coef
Roof - 1	506 ft²	0	90	1* Wood, 3* Ins	0.08	0.90		0			Overhang - None	None					
Wall - 4	231 ft²	270	0	8* LW Block, 1* Ins	0.24	0.90		0			Overhang - None	None	1.00				
Wall - 3	256 ft²	180	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	220	0.24	1.04	Overhang - None	None	1.00				
Wall - 1	255 ft²	0	0	8* LW Block, 1* Ins	0.24	0.90		0			Overhang - None	None	1.00				
Wall - 2	240 ft²	90	0	8* LW Block, 1* Ins	0.24	0.90	Single Clear 1/4*	127	0.24	1.04	Overhang - None	None	1.00				
Partition - 1	180 ft²			0.75* Gyp Frame	0.39								Hourly C				
Partition - 2	180 ft²			0.75* Gyp Frame	0.39								Hourly C				