

ASHRAE Standard 140 – Las Vegas

L100AL (base case)

CoolingLoad = 54.61 HeatingLoad = 0.00

L110AL (high infiltration)

CoolingLoad = 56.72 HeatingLoad = 0.00

L120AL (improved insulation)

CoolingLoad = 49.05 HeatingLoad = 0.00

L130AL (low-e windows)

CoolingLoad = 38.51 HeatingLoad = 0.00

L140AL (zero windows)

CoolingLoad = 25.48 HeatingLoad = 0.00

L150AL (all south glass)

CoolingLoad = 70.74 HeatingLoad = 0.00

L155AL (south glass with OH)

CoolingLoad = 56.51 HeatingLoad = 0.00

L160AL (east-west windows)

CoolingLoad = 64.32 HeatingLoad = 0.00

L170AL (no internal gains)

CoolingLoad = 43.18 HeatingLoad = 0.00

L200AL (inefficient)

CoolingLoad = 67.56 HeatingLoad = 0.00

L202AL (low alpha)

CoolingLoad = 55.21 HeatingLoad = 0.00

Building Input Summary Report

PROJECT											
Title:	L100AL (base case)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street:	111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Las Vegas , NV ,				
Family Type:	Single-family		Whole House Fan:								
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST basecase home										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	1.389			
Fuel Oil	Gallon	EnergyGauge Default					0	2.5			
Propane	Gallon	EnergyGauge Default					0	2.27			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	1	0	Yes	Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
2	S	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
3	E	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
4	W	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	33.2 kBtu/hr		0	0	0	sys#1			1
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	76 kBtu/hr	1149 cfm	0.75	sys#1					1
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L110AL (high infiltration)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST high infiltration case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area			Tile	Wood	Carpet	
1	Raised Floor	Main	----	----	1539 ft²		10.4	0	0 1	

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
2	S	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
3	E	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
4	W	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump----- Entry Power Volt. Curr				Ducts	Block		
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	90 kBtu/hr	2700 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply ----- R-Value Area		----- Return ----- Location Area		Number	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1 1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L120AL (improved insulation)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street:	111 Anywhere Lane			
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Las Vegas , NV ,			
Family Type:	Single-family		Whole House Fan:							
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST improved insulation case									
CLIMATE										
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0		High
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	54.3	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	18	57	8	456.0 ft²	7.2	0.22	0.6	0		
2	S	Exterior	Frame - Wood	Main	18	57	8	456.0 ft²	7.2	0.22	0.6	0		
3	E	Exterior	Frame - Wood	Main	18	27	8	216.0 ft²	7.2	0.22	0.6	0		
4	W	Exterior	Frame - Wood	Main	18	27	8	216.0 ft²	7.2	0.22	0.6	0		
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3	6	8	20 ft²					
2	S	Insulated	Main	None	.46	3	6	8	20 ft²					
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	30.4 kBtu/hr		0	0	0	sys#1			1
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	70 kBtu/hr	1026 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	Hours
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L130AL (low-e windows)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane					
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,					
Family Type:	Single-family		Whole House Fan:			NV ,					
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST low-e windows case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0		High
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0		Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	Wood	Low-E Double	Yes	0.3	0.34	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	S	2	Wood	Low-E Double	Yes	0.3	0.34	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
3	E	3	Wood	Low-E Double	Yes	0.3	0.34	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
4	W	4	Wood	Low-E Double	Yes	0.3	0.34	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	140 kBtu/hr		0	0	0	sys#1			1
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	50 kBtu/hr	777 cfm	0.75	sys#1					1
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L140AL (zero windows)	Bedrooms:	0	Address Type:						
Building Type:	User	Bathrooms:	0	Lot #						
Owner:	FSEC	Conditioned Area:	1539 sq.ft.	Block/SubDivision:						
# of Units:	1	Total Stories:	1	PlatBook:						
Builder Name:	James Q. Hammer	Worst Case:	No	Street:	111 Anywhere Lane					
Permit Office:		Rotate Angle:	0	County:						
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Las Vegas , NV ,					
Family Type:	Single-family	Whole House Fan:								
New/Existing:	New (From Plans)	Terrain:	Suburban							
Year Construct:		Shielding:	Suburban							
Comment:	HERS BESTEST zero windows case									
CLIMATE										
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range		
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name				Monthly Fixed Cost				\$/Unit
Electricity	kWh	EnergyGauge Default				0				0.1188
Natural Gas	Therm	EnergyGauge Default				0				0.682
Fuel Oil	Gallon	EnergyGauge Default				0				1.1
Propane	Gallon	EnergyGauge Default				0				1.4
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0		Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.09	0.01	N	0.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0.1	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block			
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1			
COOLING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block					
1	Central Unit	None		SEER:10	54 kBtu/hr	1620 cfm	0.75	sys#1	1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number						Heat	Cool	
		6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L150AL (all south glass)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street:	111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Las Vegas , NV ,				
Family Type:	Single-family		Whole House Fan:								
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST all south glass case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0		Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	270.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	140 kBtu/hr		0	0	0	sys#1			1
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	100 kBtu/hr	1470 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L155AL (south glass with OH)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane					
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,					
Family Type:	Single-family		Whole House Fan:			NV ,					
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST south glass w/ overhang case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0		Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	270.0 ft²	2 ft 6 in	1 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr				
1	Electric Strip Heat	None		COP:1	140 kBtu/hr		0	0	0	sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	84 kBtu/hr	1260 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
1	Main	6	384.75 ft²	Main	77 ft²	Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L160AL (east-west windows)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST east-west windows case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0		Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	28	8	224.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	28	8	224.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	135.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	135.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr				
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	90 kBtu/hr	1365 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L170AL (no internal gains)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST no internal gains case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block			
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1			
COOLING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block					
1	Central Unit	None		SEER:10	76 kBtu/hr	1149 cfm	0.75	sys#1	1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	Heat	Cool	
		6	384.75 ft²	Main	77 ft²		Prop. Air Leakage					1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-no_gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Miscellaneous	AM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
% Released: 0	PM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 0	PM	0.216	0.183	0.187	0.187	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

HARD WIRED LIGHTING

ID	Type	Screen	Location	Total#	Qualify#	Comp Fl	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60

Building Input Summary Report

MISC ELECTRICAL LOADS

ID	Type	Screen	Item	Quantity	Category	Operating	Location	Schedule	Off Standby
1	Misc Elec	Simple Default		1		1	Main	HERS201	1

CEILING FANS

ID	Type	Screen	Default New	cfmperWatt
1	CeilingFa	Default New	Standard	70.5
2	CeilingFa	Default New	Standard	70.5

Building Input Summary Report

PROJECT										
Title:	L200AL (inefficient)	Bedrooms:	0	Address Type:						
Building Type:	User	Bathrooms:	0	Lot #						
Owner:	FSEC	Conditioned Area:	1539 sq.ft.	Block/SubDivision:						
# of Units:	1	Total Stories:	1	PlatBook:						
Builder Name:	James Q. Hammer	Worst Case:	No	Street:	111 Anywhere Lane					
Permit Office:		Rotate Angle:	0	County:						
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Las Vegas , NV ,					
Family Type:	Single-family	Whole House Fan:								
New/Existing:	New (From Plans)	Terrain:	Suburban							
Year Construct:		Shielding:	Suburban							
Comment:	HERS BESTEST inefficient case									
CLIMATE										
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range		
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name				Monthly Fixed Cost				\$/Unit
Electricity	kWh	EnergyGauge Default				0				0.1188
Natural Gas	Therm	EnergyGauge Default				0				0.682
Fuel Oil	Gallon	EnergyGauge Default				0				1.1
Propane	Gallon	EnergyGauge Default				0				1.4
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	0	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	9.1	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	1.01	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	1.01	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	1.01	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	1.01	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block			
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None		COP:1	66.4 kBtu/hr	0	0	0		sys#1	1			
COOLING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block					
1	Central Unit	None		SEER:10	106 kBtu/hr	1746 cfm	0.75	sys#1	1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		---	---	0.00	0.60	1	1	
		6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	cfm	cfm					
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L202AL (low alpha)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street:	111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Las Vegas , NV ,				
Family Type:	Single-family		Whole House Fan:								
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST low-alpha case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	0	0	0	1			

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.2	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	9.1	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.2	0
2	S	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.2	0
3	E	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.2	0
4	W	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.2	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	66.4 kBtu/hr		0	0	0	sys#1			1
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	116 kBtu/hr	1746 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

HERS BESTEST LOADS – Las Vegas

L100AL (base case)

CoolingLoad = 54.71 HeatingLoad = 0.00

L110AL (high infiltration)

CoolingLoad = 56.82 HeatingLoad = 0.00

L120AL (improved insulation)

CoolingLoad = 49.07 HeatingLoad = 0.00

L130AL (low-e windows)

CoolingLoad = 38.63 HeatingLoad = 0.00

L140AL (zero windows)

CoolingLoad = 25.62 HeatingLoad = 0.00

L150AL (all south glass)

CoolingLoad = 70.78 HeatingLoad = 0.00

L155AL (south glass with OH)

CoolingLoad = 56.55 HeatingLoad = 0.00

L160AL (east-west windows)

CoolingLoad = 64.42 HeatingLoad = 0.00

L170AL (no internal gains)

CoolingLoad = 43.29 HeatingLoad = 0.00

L200AL (inefficient)

CoolingLoad = 67.10 HeatingLoad = 0.00

L202AL (low alpha)

CoolingLoad = 54.98 HeatingLoad = 0.00

Building Input Summary Report

PROJECT										
Title:	L100AL (base case)	Bedrooms:	0	Address Type:						
Building Type:	User	Bathrooms:	0	Lot #						
Owner:	FSEC	Conditioned Area:	1539 sq.ft.	Block/SubDivision:						
# of Units:	1	Total Stories:	1	PlatBook:						
Builder Name:	James Q. Hammer	Worst Case:	No	Street: 111 Anywhere Lane						
Permit Office:		Rotate Angle:	0	County:						
Jurisdiction:		Cross Ventilation:		City, State, Zip: Las Vegas ,						
Family Type:	Single-family	Whole House Fan:		NV ,						
New/Existing:	New (From Plans)	Terrain:	Suburban							
Year Construct:		Shielding:	Suburban							
Comment:	HERS BESTEST basecase home									
CLIMATE										
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0		High
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	1.389		
Fuel Oil	Gallon	EnergyGauge Default					0	2.5		
Propane	Gallon	EnergyGauge Default					0	2.27		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft	
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	1	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	33.2 kBtu/hr		0	0	0	sys#1		1	
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	76 kBtu/hr	1149 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L110AL (high infiltration)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST high infiltration case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
2	S	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
3	E	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
4	W	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr				
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	90 kBtu/hr	2700 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
1	Main	6	384.75 ft²	Main	77 ft²	Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L120AL (improved insulation)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST improved insulation case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	54.3	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	18	57		8		456.0 ft²	7.2	0.22	0.6	0
2	S	Exterior	Frame - Wood	Main	18	57		8		456.0 ft²	7.2	0.22	0.6	0
3	E	Exterior	Frame - Wood	Main	18	27		8		216.0 ft²	7.2	0.22	0.6	0
4	W	Exterior	Frame - Wood	Main	18	27		8		216.0 ft²	7.2	0.22	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	30.4 kBtu/hr		0	0	0	sys#1		1	
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	70 kBtu/hr	1026 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	Supply R-Value	Supply Area	Return Location	Return Area	Number	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60

MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	

CEILING FANS				
ID	Type	Screen	Default New	cfmperWatt
1	CeilingFa	Default New	Standard	70.5
2	CeilingFa	Default New	Standard	70.5

Building Input Summary Report

PROJECT										
Title:	L130AL (low-e windows)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST low-e windows case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0		Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	Wood	Low-E Double	Yes	0.3	0.34	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	S	2	Wood	Low-E Double	Yes	0.3	0.34	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None
3	E	3	Wood	Low-E Double	Yes	0.3	0.34	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
4	W	4	Wood	Low-E Double	Yes	0.3	0.34	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump----- Entry Power Volt. Curr				Ducts	Block		
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	50 kBtu/hr	777 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply ----- R-Value Area		----- Return ----- Location Area		Number	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1 1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60

MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	

CEILING FANS				
ID	Type	Screen	Default New	cfmperWatt
1	CeilingFa	Default New	Standard	70.5
2	CeilingFa	Default New	Standard	70.5

Building Input Summary Report

PROJECT										
Title:	L140AL (zero windows)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST zero windows case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0		Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area			Tile	Wood	Carpet	
1	Raised Floor	Main	----	1539 ft ²	----	10.4	0	0	1	

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	N	1	Vinyl	Low-E Double	Yes	0.09	0.01	N	0.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0.1	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump----- Entry Power Volt. Curr				Ducts	Block			
1	Electric Strip Heat	None		COP:1	140 kBtu/hr	0	0	0		sys#1	1			
COOLING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block					
1	Central Unit	None		SEER:10	54 kBtu/hr	1620 cfm	0.75	sys#1	1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply ----- R-Value Area		----- Return ----- Location Area		Number	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L150AL (all south glass)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street:	111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip:	Las Vegas , NV ,				
Family Type:	Single-family		Whole House Fan:								
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST all south glass case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft			
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0		Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	270.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump----- Entry Power Volt. Curr				Ducts	Block		
1	Electric Strip Heat	None			COP:1	140 kBtu/hr	0	0	0		sys#1	1		
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	100 kBtu/hr	1470 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply ----- R-Value Area		----- Return ----- Location Area		Number	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT											
Title:	L155AL (south glass with OH)		Bedrooms:	0		Address Type:					
Building Type:	User		Bathrooms:	0		Lot #					
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:					
# of Units:	1		Total Stories:	1		PlatBook:					
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane					
Permit Office:			Rotate Angle:	0		County:					
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,					
Family Type:	Single-family		Whole House Fan:			NV ,					
New/Existing:	New (From Plans)		Terrain:	Suburban							
Year Construct:			Shielding:	Suburban							
Comment:	HERS BESTEST south glass w/ overhang case										
CLIMATE											
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70	75	2300.5	0	High	
UTILITY RATES											
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit			
Electricity	kWh	EnergyGauge Default					0	0.1188			
Natural Gas	Therm	EnergyGauge Default					0	0.682			
Fuel Oil	Gallon	EnergyGauge Default					0	1.1			
Propane	Gallon	EnergyGauge Default					0	1.4			
SURROUNDINGS											
Ornt	Type	Shade Trees			Adjacent Buildings						
		Height	Width	Distance	Exist	Height	Width	Distance			
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	0 ft		
BLOCKS											
Number	Name	Area	Volume								
1	Block1	1539	12312								
SPACES											
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
1	Main	1539	12312	Yes	0	0		Yes	Yes		
FLOORS											
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet				
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1			

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	27	8	216.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	270.0 ft²	2 ft 6 in	1 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr				
1	Electric Strip Heat	None		COP:1	140 kBtu/hr		0	0	0	sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	84 kBtu/hr	1260 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
1	Main	6	384.75 ft²	Main	77 ft²	Prop. Air Leakage	Main	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT										
Title:	L160AL (east-west windows)		Bedrooms:	0		Address Type:				
Building Type:	User		Bathrooms:	0		Lot #				
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:				
# of Units:	1		Total Stories:	1		PlatBook:				
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane				
Permit Office:			Rotate Angle:	0		County:				
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,				
Family Type:	Single-family		Whole House Fan:			NV ,				
New/Existing:	New (From Plans)		Terrain:	Suburban						
Year Construct:			Shielding:	Suburban						
Comment:	HERS BESTEST east-west windows case									
CLIMATE										
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0		Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1		

Building Input Summary Report

ROOF													
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4		
ATTIC													
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
1	Full attic	Vented	150	1539 ft²	N	N							
CEILING													
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type							
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood							
WALLS													
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%	
1	N	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
2	S	Exterior	Frame - Wood	Main	11	57	8	456.0 ft²		0.25	0.6	0	
3	E	Exterior	Frame - Wood	Main	11	28	8	224.0 ft²		0.25	0.6	0	
4	W	Exterior	Frame - Wood	Main	11	28	8	224.0 ft²		0.25	0.6	0	
DOORS													
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area					
1	N	Insulated	Main	None	.46	3	6	8	20 ft²				
2	S	Insulated	Main	None	.46	3	6	8	20 ft²				
WINDOWS													
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening
1	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	135.0 ft²	0 ft 0 in	0 ft 0 in	None	None
2	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	135.0 ft²	0 ft 0 in	0 ft 0 in	None	None
INFILTRATION													
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)				
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All				
MASS													
Mass Type	Area	Thickness	Furniture Fraction	Space									
No Added Mass	0 ft²	0 ft	0	Main									

Building Input Summary Report

HEATING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr				
1	Electric Strip Heat	None		COP:1	140 kBtu/hr		0	0	0	sys#1	1		
COOLING SYSTEM													
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None		SEER:10	90 kBtu/hr	1365 cfm	0.75	sys#1	1				
HOT WATER SYSTEM													
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits					
					gal	gal	deg						
DUCTS													
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #	
		R-Value	Area	Location	Area	Number		TOT	OUT			Heat	Cool
1	Main	6	384.75 ft²	Main	77 ft²		Prop. Air Leakage	--- cfm	--- cfm	0.00	0.60	1	1
TEMPERATURES													
Programable Thermostat: N						Ceiling Fans: N							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Thermostat Schedule: BESTEST-cooling													
Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT									
Title:	L170AL (no internal gains)		Bedrooms:	0		Address Type:			
Building Type:	User		Bathrooms:	0		Lot #			
Owner:	FSEC		Conditioned Area:	1539 sq.ft.		Block/SubDivision:			
# of Units:	1		Total Stories:	1		PlatBook:			
Builder Name:	James Q. Hammer		Worst Case:	No		Street: 111 Anywhere Lane			
Permit Office:			Rotate Angle:	0		County:			
Jurisdiction:			Cross Ventilation:			City, State, Zip: Las Vegas ,			
Family Type:	Single-family		Whole House Fan:			NV ,			
New/Existing:	New (From Plans)		Terrain:	Suburban					
Year Construct:			Shielding:	Suburban					
Comment:	HERS BESTEST no internal gains case								
CLIMATE									
Design Location	Tmy Site		Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1		32	105		70 75	2300.5	0	High
UTILITY RATES									
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit	
Electricity	kWh	EnergyGauge Default					0	0.1188	
Natural Gas	Therm	EnergyGauge Default					0	0.682	
Fuel Oil	Gallon	EnergyGauge Default					0	1.1	
Propane	Gallon	EnergyGauge Default					0	1.4	
SURROUNDINGS									
Ornt	Type	Shade Trees			Adjacent Buildings				
		Height	Width	Distance	Exist	Height	Width	Distance	
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
BLOCKS									
Number	Name	Area	Volume						
1	Block1	1539	12312						
SPACES									
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes
FLOORS									
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet		
1	Raised Floor	Main	----	1539 ft ²	10.4	0	0	1	

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	16.7	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
2	S	Exterior	Frame - Wood	Main	11	57		8		456.0 ft²		0.25	0.6	0
3	E	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
4	W	Exterior	Frame - Wood	Main	11	27		8		216.0 ft²		0.25	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.000744	3005.2	164.98	310.27	.67	14.645	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	140 kBtu/hr		0	0	0	sys#1		1	
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	76 kBtu/hr	1149 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	Hours
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-no_gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Miscellaneous	AM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
% Released: 0	PM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 0	PM	0.216	0.183	0.187	0.187	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

HARD WIRED LIGHTING

ID	Type	Screen	Location	Total#	Qualify#	Comp Fl	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60

Building Input Summary Report

MISC ELECTRICAL LOADS									
ID	Type	Screen	Item	Quantity	Category	Operating	Location	Schedule	Off Standby
1	Misc Elec	Simple Default		1		1	Main	HERS201	1
CEILING FANS									
ID	Type	Screen	Default New	cfmperWatt					
1	CeilingFa	Default New	Standard	70.5					
2	CeilingFa	Default New	Standard	70.5					

Building Input Summary Report

PROJECT										
Title:	L200AL (inefficient)	Bedrooms:	0	Address Type:						
Building Type:	User	Bathrooms:	0	Lot #						
Owner:	FSEC	Conditioned Area:	1539 sq.ft.	Block/SubDivision:						
# of Units:	1	Total Stories:	1	PlatBook:						
Builder Name:	James Q. Hammer	Worst Case:	No	Street:	111 Anywhere Lane					
Permit Office:		Rotate Angle:	0	County:						
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Las Vegas , NV ,					
Family Type:	Single-family	Whole House Fan:								
New/Existing:	New (From Plans)	Terrain:	Suburban							
Year Construct:		Shielding:	Suburban							
Comment:	HERS BESTEST inefficient case									
CLIMATE										
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Heating	Design	Daily Temp		
					Winter	Summer	Degree Days	Moisture	Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0	High	
UTILITY RATES										
Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default					0	0.1188		
Natural Gas	Therm	EnergyGauge Default					0	0.682		
Fuel Oil	Gallon	EnergyGauge Default					0	1.1		
Propane	Gallon	EnergyGauge Default					0	1.4		
SURROUNDINGS										
Ornt	Type	Shade Trees			Adjacent Buildings					
		Height	Width	Distance	Exist	Height	Width	Distance		
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft		
BLOCKS										
Number	Name	Area	Volume							
1	Block1	1539	12312							
SPACES										
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	
FLOORS										
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet			
1	Raised Floor	Main	----	1539 ft ²	0	0	0	1		

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.6	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	9.1	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.6	0
2	S	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.6	0
3	E	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.6	0
4	W	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.6	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block		
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None			COP:1	66.4 kBtu/hr		0	0	0	sys#1		1	
COOLING SYSTEM														
#	System Type	Subtype			Efficiency	Capacity	Air Flow	SHR	Ducts	Block				
1	Central Unit	None			SEER:10	106 kBtu/hr	1746 cfm	0.75	sys#1	1				
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area	Number		--- cfm	--- cfm	0.00	0.60	1	1	
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						

Building Input Summary Report

PROJECT									
Title:	L202AL (low alpha)	Bedrooms:	0	Address Type:					
Building Type:	User	Bathrooms:	0	Lot #					
Owner:	FSEC	Conditioned Area:	1539 sq.ft.	Block/SubDivision:					
# of Units:	1	Total Stories:	1	PlatBook:					
Builder Name:	James Q. Hammer	Worst Case:	No	Street:	111 Anywhere Lane				
Permit Office:		Rotate Angle:	0	County:					
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Las Vegas , NV ,				
Family Type:	Single-family	Whole House Fan:							
New/Existing:	New (From Plans)	Terrain:	Suburban						
Year Construct:		Shielding:	Suburban						
Comment:	HERS BESTEST low-alpha case								
CLIMATE									
Design Location	Tmy Site	Design Temp	97.5 %	2.5 %	Int Design Temp	Heating Degree Days	Design Moisture	Daily Temp Range	
NV, LAS_VEGASTMY1	NV_LAS_VEGASTMY1	32	105		70	75	2300.5	0	High
UTILITY RATES									
Fuel	Unit	Utility Name				Monthly Fixed Cost	\$/Unit		
Electricity	kWh	EnergyGauge Default				0	0.1188		
Natural Gas	Therm	EnergyGauge Default				0	0.682		
Fuel Oil	Gallon	EnergyGauge Default				0	1.1		
Propane	Gallon	EnergyGauge Default				0	1.4		
SURROUNDINGS									
Ornt	Type	Shade Trees			Adjacent Buildings				
		Height	Width	Distance	Exist	Height	Width	Distance	
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft	
BLOCKS									
Number	Name	Area	Volume						
1	Block1	1539	12312						
SPACES									
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes
FLOORS									
#	Floor Type	Space	R-Value	Area	Tile	Wood	Carpet		
1	Raised Floor	Main	----	1539 ft ²	0	0	0	1	

Building Input Summary Report

ROOF														
#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)			
1	Gable or shed	Composition shingles	1622 ft²	256 ft²	Medium	0.2	No	0.9	No	0	18.4			
ATTIC														
#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC								
1	Full attic	Vented	150	1539 ft²	N	N								
CEILING														
#	Ceiling Type	Space	R-Value	Area	Framing Fraction	Truss Type								
1	Under Attic ()	Main	9.1	1539 ft²	0.11	Wood								
WALLS														
Wall orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.														
#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	N	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.2	0
2	S	Exterior	Frame - Wood	Main	1.01	57		8		456.0 ft²		0.25	0.2	0
3	E	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.2	0
4	W	Exterior	Frame - Wood	Main	1.01	27		8		216.0 ft²		0.25	0.2	0
DOORS														
#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
1	N	Insulated	Main	None	.46	3		6	8	20 ft²				
2	S	Insulated	Main	None	.46	3		6	8	20 ft²				
WINDOWS														
#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Storm	Area	Overhang Depth	Overhang Separation	Interior Shade	Screening	
1	N	1	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
2	S	2	TIM	Single (Clear)	Yes	1.09	0.7	N	90.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
3	E	3	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
4	W	4	TIM	Single (Clear)	Yes	1.09	0.7	N	45.0 ft²	0 ft 0 in	0 ft 0 in	None	None	
INFILTRATION														
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50	Space(s)					
1	Wholehouse	Proposed ACH	.001667	6728	369.36	694.64	1.5	32.787	All					
MASS														
Mass Type	Area	Thickness	Furniture Fraction	Space										
No Added Mass	0 ft²	0 ft	0	Main										

Building Input Summary Report

HEATING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	-----Geothermal HeatPump-----				Ducts	Block			
						Entry	Power	Volt.	Curr					
1	Electric Strip Heat	None		COP:1	66.4 kBtu/hr	0	0	0		sys#1	1			
COOLING SYSTEM														
#	System Type	Subtype		Efficiency	Capacity	Air Flow	SHR	Ducts	Block					
1	Central Unit	None		SEER:10	116 kBtu/hr	1746 cfm	0.75	sys#1	1					
HOT WATER SYSTEM														
#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Credits						
					gal	gal	deg							
DUCTS														
DUCT #	Location	----- Supply -----		----- Return -----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC #		
1	Main	R-Value	Area	Location	Area			---	---	0.00	0.60	1	1	
		6	384.75 ft²	Main	77 ft²	Prop. Air Leakage	Main	cfm	cfm					
TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Heating	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Thermostat Schedule: BESTEST-cooling														
Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	
	PM	78	78	78	78	78	78	78	78	78	78	78	78	
Heating (WD)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68	
	PM	68	68	68	68	68	68	68	68	68	68	68	68	

Building Input Summary Report

APPLIANCES & LIGHTING

Appliance Schedule: BESTEST-gains		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer)	AM	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5
% Released: 0	PM	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.75
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Clothes Washer	AM	0.105	0.081	0.046	0.046	0.081	0.128	0.256	0.57	0.849	1	0.977	0.872
% Released: 60	PM	0.779	0.698	0.605	0.57	0.581	0.57	0.57	0.57	0.57	0.488	0.43	0.198
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dishwasher	AM	0.139	0.05	0.028	0.024	0.029	0.09	0.169	0.303	0.541	0.594	0.502	0.443
% Released: 60	PM	0.377	0.396	0.335	0.323	0.344	0.448	0.791	1	0.8	0.597	0.383	0.281
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Dryer	AM	0.2	0.1	0.05	0.05	0.05	0.075	0.2	0.375	0.5	0.8	0.95	1
% Released: 0	PM	0.875	0.85	0.8	0.625	0.625	0.6	0.575	0.55	0.625	0.7	0.65	0.375
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Lighting	AM	0.144	0.144	0.144	0.144	0.144	0.243	0.304	0.607	0.356	0.216	0.216	0.29
% Released: 100	PM	0.216	0.183	0.186	0.186	0.274	0.295	0.317	0.499	0.499	0.523	0.523	0.469
Annual Use: 800 kWh/Yr		Peak Value: 308 Watts											
Miscellaneous	AM	0.238	0.238	0.238	0.238	0.238	0.398	0.5	1	0.583	0.357	0.357	0.476
% Released: 100	PM	0.357	0.297	0.31	0.31	0.453	0.488	0.524	0.821	0.821	0.857	0.857	0.774
Annual Use: 6500 kWh/Yr		Peak Value: 1518 Watts											
Pool Pump	AM	0	0	0	0	0	0	0	0	0	1	1	1
% Released: 0	PM	1	1	1	1	0	0	0	0	0	0	0	0
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Range	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.4
% Released: 0	PM	0.457	0.343	0.286	0.4	0.571	1	0.857	0.429	0.286	0.229	0.171	0.114
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Refrigeration	AM	0.85	0.78	0.75	0.73	0.73	0.73	0.75	0.75	0.8	0.8	0.8	0.8
% Released: 0	PM	0.88	0.85	0.85	0.83	0.88	0.95	1	0.98	0.95	0.93	0.9	0.85
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											
Well Pump	AM	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1
% Released: 0	PM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Annual Use: 0 kWh/Yr		Peak Value: 0 Watts											

MECHANICAL VENTILATION

Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System	Cooling System
None	0	0	0	0W	0%	1 - Electric Strip Heat	1 - Central Unit

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwash	Default New	Main	12	2004 or N			HERS201	372

RANGE OVEN

ID	Type	Screen	Location	Type	Fueltype	Make	Model	Cooktop	Oven
1	RangeOv	Default New	Main	CooktopOven C	Natural G			Electric fl	Not Conv

Building Input Summary Report

HARD WIRED LIGHTING										
ID	Type	Screen	Location	Total#	Qualify#	Comp FI	All Other FL	txtBulbtype	Schedule	Watts per bulb
1	Hard-Wir	By Count - Qualif	Main	15	11	0	2	Incandes	HERS201	60
2	Hard-Wir	By Count - Qualif	2nd Floor	18	7	0	2	Incandes	HERS201	60
3	Hard-Wir	By Count - Qualif	Basemen	8	0	0	2	Incandes	HERS201	60
4	Hard-Wir	By Count - Qualif	Exterior	4	1	0	2	Incandes	HERS201	60
5	Hard-Wir	By Count - Qualif	Garage	1	0	0	2	Incandes	HERS201	60
MISC ELECTRICAL LOADS										
ID	Type	Screen	Item	Quantity	Catagory	Operating	Location	Schedule	Off Standby	
1	Misc Elec	Simple Default		1		1	Main	HERS201	1	
CEILING FANS										
ID	Type	Screen	Default New	cfmperWatt						
1	CeilingFa	Default New	Standard	70.5						
2	CeilingFa	Default New	Standard	70.5						