

# Building Input Summary Report

PROJECT										
Title:	L202AL (low alpha)				Address type:		Y			
Building Type:	User		Bedrooms:	0		Lot #:				
Owner:	FSEC		Conditioned Area:	1539		Block/SubDivision:				
Builder Name:	James Q. Hammer		Total Stories:	1		PlatBook:				
Permit Office:			Worst Case:	No		Street:	111 Anywhere Lane			
Jurisdiction:			Rotate Angle:	0		County:				
Family Type:	Single-family		Cross Ventilation:			City, State, Zip:	Las Vegas, NV,			
New/Existing:	New (From Plans)		Whole House Fan:							
Year Construct:			Terrain:	Suburban						
Comment:	HERS BESTEST low-alpha case									
CLIMATE										
<input checked="" type="checkbox"/> 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										
<input checked="" type="checkbox"/> Fuel	Unit	Utility Name					Monthly Fixed Cost	\$/Unit		
___ Electricity	kWh	EnergyGauge Default					0.00	0.12		
___ Natural Gas	Therm	EnergyGauge Default					0.00	0.68		
___ Fuel Oil	Gallon	EnergyGauge Default					0.00	1.10		
___ Propane	Gallon	EnergyGauge Default					0.00	1.40		
SURROUNDINGS										
Ornt	Type	-----Shade Trees-----			Exist	-----Adjacent Buildings-----				
		Height	Width	Distance		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										
<input checked="" type="checkbox"/> Number	Name	Area	Volume							
___ 1	Block1	1539	12312							
SPACES										
<input checked="" type="checkbox"/> Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated	
___ 1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes	

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FLOORS (Total Exposed Area = 1539 sq.ft.)												
✓ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet		
___ 1	Raised Floor	Main	---	---	1539 ft	0.233	0	0	0	1		

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 (Total Exposed Area = 1539 sq.ft.)								
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	9.1	Blown	1539.0ft²	0.081	0.11	Wood

WALLS (Total Exposed Area = 1344 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Main	1.0	57.0	0	8.0	0	456.0	0.261		0.25	0.2	0 %
___ 2	S	Exterior	Frame - Wood	Main	1.0	57.0	0	8.0	0	456.0	0.261		0.25	0.2	0 %
___ 3	E	Exterior	Frame - Wood	Main	1.0	27.0	0	8.0	0	216.0	0.261		0.25	0.2	0 %
___ 4	W	Exterior	Frame - Wood	Main	1.0	27.0	0	8.0	0	216.0	0.261		0.25	0.2	0 %

DOORS (Total Exposed Area = 40 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	N	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	
___ 2	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS (Total Exposed Area = 270 sq.ft.)														
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang----- Depth	Separation	Interior Shade	Screening
___ 1	N	1	TIM	Single (Clear)	Yes	1.09	0.70	N	N	90.0ft²	0.0 ft 0 in	0.0 ft 0 in	None	None
___ 2	S	2	TIM	Single (Clear)	Yes	1.09	0.70	N	N	90.0ft²	0.0 ft 0 in	0.0 ft 0 in	None	None
___ 3	E	3	TIM	Single (Clear)	Yes	1.09	0.70	N	N	45.0ft²	0.0 ft 0 in	0.0 ft 0 in	None	None
___ 4	W	4	TIM	Single (Clear)	Yes	1.09	0.70	N	N	45.0ft²	0.0 ft 0 in	0.0 ft 0 in	None	None

INFILTRATION									
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH	0.00168	6779	372.13	699.85	1.5000	33.0	All

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MASS														
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space									
___ 1	No Added Mass	0 ft²	0 ft	0.00	Main									
HEATING SYSTEM														
✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block				
___ 1	Electric Strip Heat	None		COP: 1.00	66.4	0.00	0.00	0.00	sys#1	1				
COOLING SYSTEM														
✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm			SHR	Duct	Block			
___ 1	Central Unit	None		SEER:10	116.0	1746			0.75	sys#1	1			
HOT WATER SYSTEM														
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length				
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits				
DUCTS														
✓ Duct #	Location	-----Supply----- R-Value Area	Location	-----Return----- R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool			
___ 1	Main	6.0 385 ft²	Main	6.0 77 ft²	Prop. Air Leakage	Main	---	---	0.00	0.60	1 1			
MECHANICAL VENTILATION														
✓ Type	Supply CFM	Exhaust CFM	HRV	Fan	Run Time	Heating System				Cooling System				
___ None	0.0	0.0	0.0	0.0 W	0 %	1 - Electric Strip Heat				1 - Central Unit				
TEMPERATURES														
Programable Thermostat: N Cooling [X] Jan [X] Feb [X] Mar [X] Apr [X] May [X] Jun [X] Jul [X] Aug [X] Sep [X] Oct [X] Nov [X] Dec Heating [] Jan [] Feb [] Mar [] Apr [] May [] Jun [] Jul [] Aug [] Sep [] Oct [] Nov [] Dec Venting [] Jan [] Feb [] Mar [] Apr [] May [] Jun [] Jul [] Aug [] Sep [] Oct [] Nov [] Dec														
✓ Thermostat Schedule: BESTEST-cooling	Hours													
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	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	78 78

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## TEMPERATURES(Continued)

___ 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

## CLOTHES DRYERS

✓ ID	Type	Screen	Location	Quantity	Fuel Type	Make	Model	Schedule	kWhPerYr
___ 1 Dryers		Default Existing	Main		Electricity			HERS2011	0

## RANGE OVENS

✓ ID	Type	Screen	Location	Type	Fuel Type	Make	Model	Cooktop	Oven
___ 1 Ranges		Default New	Main	Combo	Elec			Elec Flat Coil	Not Convec

## HARD WIRED LIGHTING

✓ ID	Type	Screen	Location	Total#	Quantity#	Comp FI	All Other FI	Bulb Type	Schedule	Watts per bulb
___ 1 Hard-Wired	By Count - Qualifying		Main	100	10				HERS2011	
___ 2 Hard-Wired	Default New		Exterior						HERS2011	
___ 3 Hard-Wired	Default New		Garage						HERS2011	

## MISC ELECTRICAL LOADS

✓ ID	Type	Screen	Location	Item	Quantity	Catagory	Operating	Schedule	Off Standby
___ 1	Misc Elec Load	Simple Default	Main		1		1	HERS2011	1

## APPLIANCES & LIGHTING SCHEDULES

Appliance Schedule: HERS2014		Hours												
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12
Occupancy peak:	400 Btu	AM	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.980	0.460	0.270	0.270	0.270
% Released:	100 %	PM	0.270	0.270	0.270	0.270	0.330	0.610	1.000	1.000	0.930	0.930	0.930	0.930
refrig peak:	0 W	AM	0.824	0.804	0.784	0.764	0.744	0.734	0.744	0.754	0.764	0.794	0.814	0.854
% Released:	100 %	PM	0.854	0.864	0.884	0.904	0.925	0.945	0.925	0.915	0.904	0.894	0.874	0.854
cWash peak:	0 W	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
% Released:	30 %	PM	0.875	0.850	0.800	0.625	0.625	0.600	0.575	0.550	0.625	0.700	0.650	0.375
E-cDry peak:	74 W	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
% Released:	15 %	PM	0.875	0.850	0.800	0.625	0.625	0.600	0.575	0.550	0.625	0.700	0.650	0.375
dWash peak:	0 W	AM	0.139	0.050	0.028	0.024	0.029	0.090	0.169	0.303	0.541	0.594	0.502	0.443
% Released:	60 %	PM	0.376	0.396	0.334	0.323	0.344	0.448	0.791	1.000	0.800	0.597	0.383	0.281
E-rOven peak:	122 W	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.400
% Released:	80 %	PM	0.457	0.343	0.286	0.400	0.571	1.000	0.857	0.429	0.286	0.229	0.171	0.114
TVs peak:	151 W	AM	0.100	0.050	0.050	0.050	0.100	0.200	0.400	0.450	0.400	0.200	0.100	0.100
% Released:	100 %	PM	0.050	0.050	0.150	0.450	0.850	1.000	0.950	0.800	0.500	0.250	0.150	0.100

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## APPLIANCES & LIGHTING SCHEDULES(Continued)

cFan peak:	0 W	AM	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.250	0.250	0.250	0.250	0.250
% Released:	100 %	PM	0.250	0.250	0.250	0.250	0.250	0.250	0.550	0.600	0.600	0.600	0.600	0.600
lgts-in peak:	545 W	AM	0.160	0.150	0.160	0.180	0.230	0.450	0.420	0.260	0.190	0.160	0.120	0.110
% Released:	100 %	PM	0.160	0.170	0.250	0.270	0.340	0.550	0.600	0.880	1.000	0.880	0.510	0.280
lgts-out peak:	47 W	AM	1.000	1.000	1.000	1.000	1.000	0.750	0.750	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	0.500	0.750	0.750	0.750	1.000
lgts-gar peak:	0 W	AM	0.000	0.000	0.000	0.000	0.000	0.500	0.750	1.000	0.750	0.500	0.000	0.000
% Released:	0 %	PM	0.000	0.000	0.500	0.500	0.750	1.000	0.750	0.500	0.000	0.000	0.000	0.000
MEL peak:	184 W	AM	0.500	0.500	0.500	0.750	0.750	0.850	1.000	1.000	1.000	1.000	0.900	0.900
% Released:	90 %	PM	0.900	0.900	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.850	0.750	0.750