

Building Input Summary Report

PROJECT											
Title:	L324AC (basement-insulated)					Address type:					Y
Building Type:	User	Bedrooms:	0			Lot #:					
Owner:	FSEC	Conditioned Area:	3078			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:					Colorado Springs, CO,
New/Existing:	New (From Plans)	Whole House Fan:									
Year Construct:		Terrain:	Suburban								
Comment:	HERS BESTEST insulated basement 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	
___ CO, COLORADO_SPRINGSTM	CO_COLORADO_SPRINGSTM	7	88		70	75	6114.5	0		High	
UTILITY											
✓ 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											
✓ Number	Name	Area	Volume								
___ 1	Block1	3078	23469.75								
SPACES											
✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
___ 1	Main	1539	12312	Yes	0	0	Yes	Yes	Yes		
___ 2	BSMT-2	1539	11157.75	No	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	Floor Over Other Space	Main	---	---	1539 ft	0.317		1	0	0		
___ 2	Slab-Below-Grade	BSMT-2	---	---	1539 ft	0.710		1	0	0		

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 (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	16.7	Blown	1539.0ft²	0.059	0.11	Wood

WALLS (Total Exposed Area = 2688 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	11.0	57.0	0	8.0	0	456.0	0.093		0.25	0.6	0 %
___ 2	S	Exterior	Frame - Wood	Main	11.0	57.0	0	8.0	0	456.0	0.093		0.25	0.6	0 %
___ 3	E	Exterior	Frame - Wood	Main	11.0	27.0	0	8.0	0	216.0	0.093		0.25	0.6	0 %
___ 4	W	Exterior	Frame - Wood	Main	11.0	27.0	0	8.0	0	216.0	0.093		0.25	0.6	0 %
___ 5	N	Exterior	Frame - Wood	BSMT-2	12.9	57.0	0	0.0	9	42.8	0.074		0.1	0.6	0 %
___ 6	S	Exterior	Frame - Wood	BSMT-2	12.9	57.0	0	0.0	9	42.8	0.074		0.1	0.6	0 %
___ 7	E	Exterior	Frame - Wood	BSMT-2	12.9	27.0	0	0.0	9	20.3	0.074		0.1	0.6	0 %
___ 8	W	Exterior	Frame - Wood	BSMT-2	12.9	27.0	0	0.0	9	20.3	0.074		0.1	0.6	0 %
___ 9	N	Exterior	Concrete - 6 inch	BSMT-2	11.0	57.0	0	7.3	0	413.3	0.078	0	90.80	0.4138	0.835938 %
___ 10	S	Exterior	Concrete - 6 inch	BSMT-2	11.0	57.0	0	7.3	0	413.3	0.078	0	90.80	0.4138	0.835938 %
___ 11	E	Exterior	Concrete - 6 inch	BSMT-2	11.0	27.0	0	7.3	0	195.8	0.078	0	90.80	0.4138	0.835938 %
___ 12	W	Exterior	Concrete - 6 inch	BSMT-2	11.0	27.0	0	7.3	0	195.8	0.078	0	90.80	0.4138	0.835938 %

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

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WINDOWS(Continued)

___ 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
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INFILTRATION

✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH	0.00034	2755	151.25	284.45	0.3400	7.0	All

MASS

✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	No Added Mass	0 ft²	0 ft	0.00	Main
___ 2	No Added Mass	0 ft²	0 ft	0.00	BSMT-2

HEATING SYSTEM

✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current				Ducts	Block
___ 1	Electric Strip Heat	None		COP: 1.00	130.0		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	24.8	744	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	-----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

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TEMPERATURES														
Programable Thermostat: N					Ceiling Fans: N									
Cooling	<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		
Heating	<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		
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		
<input checked="" type="checkbox"/>	Thermostat Schedule: BESTEST-heating													
	Schedule Type	1	2	3	4	5	6	Hours	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
CLOTHES DRYERS														
<input checked="" type="checkbox"/>	ID	Type	Screen	Location	Quantity	Fuel Type	Make	Model	Schedule	kWhPerYr				
___	1 Dryers	Default Existing	Main	Electricity	HERS2011	0								
RANGE OVENS														
<input checked="" type="checkbox"/>	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														
<input checked="" type="checkbox"/>	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														
<input checked="" type="checkbox"/>	ID	Type	Screen	Location	Item	Quantity	Catagory	Operating	Schedule	Off Standby				
___	1	Misc Elec Load	Simple Default	Main	1	1	HERS2011	1						

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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
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:	943 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:	68 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:	369 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