

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Air Distribution System Test Report

Project Name	Case Residence	Builder Name:	
Street		Permit Office	
City, State, Zip	, FL, 32055-	Permit Number:	
Owner:	Case	Jurisdiction:	
Design Location:	FL, Gainesville		

Air Distribution System Leakage Test Results

CFM25 Air Distribution System Leakage Test Values			
Line	System	Duct Leakage to Outdoors	Total Duct Leakage *
1	System 1	_____ cfm25(out)	_____ cfm25(tot)
2	System 2	_____ cfm25(out)	_____ cfm25(tot)
3	System 3	_____ cfm25(out)	_____ cfm25(tot)
4	System 4	_____ cfm25(out)	_____ cfm25(tot)
5	Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_{n,out})	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_{n,tot})

*Total duct leakage testing is required for prescriptive methods but optional for Performance. To qualify as "substantially leak free", for a post construction test, Q_{n, out} must be less than or equal to 0.03 and Q_{n, tot} must be less than or equal to 0.09, for a rough in test, Q_{n, tot} must be less than or equal to 0.04 if the AH is included in the test, or Q_{n, tot} must be less than or equal to 0.02 if the AH is not installed at the time of the test. See FBC, EC Section 403.2.2.1

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 403.2.2.1.

Signature: _____

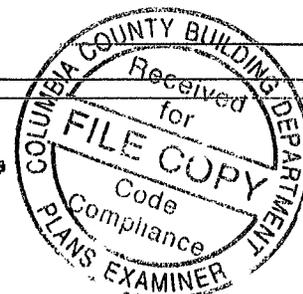
Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm duct leakage be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at <http://energygauge.com/search.htm>

BUILDING OFFICIAL: _____
DATE: _____



Residential System Sizing Calculation

Summary

Project Title:
Case Residence

Case
FL 32055-

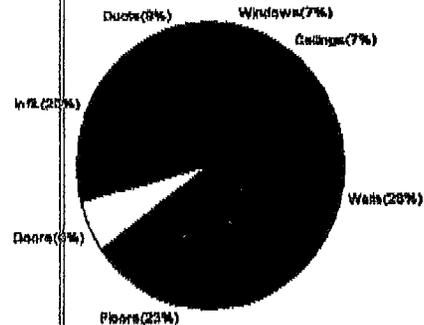
8/7/2014

Location for weather data: Gainesville, FL - Defaults. Latitude(29.7) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature(MJ8 99%)	33 F	Summer design temperature(MJ8 99%)	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	16923 Btuh	Total cooling load calculation	16504 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	141.8 24000	Sensible (SHF = 0.75)	145.5 18000
Heat Pump + Auxillary(0.0kW)	141.8 24000	Latent	145.2 6000
		Total (Electric Heat Pump)	145.4 24000

WINTER CALCULATIONS

Winter Heating Load (for 970 sqft)

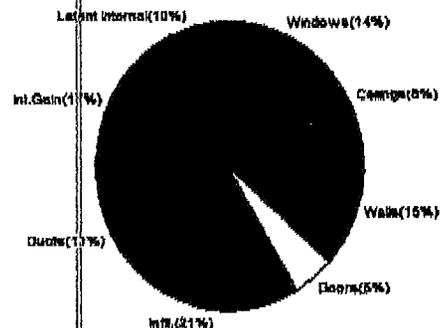
Load component		Load	
Window total	60 sqft	1221	Btuh
Wall total	1680 sqft	4804	Btuh
Door total	60 sqft	1021	Btuh
Ceiling total	970 sqft	1143	Btuh
Floor total	970 sqft	3864	Btuh
Infiltration	84 cfm	3388	Btuh
Duct loss		1482	Btuh
Subtotal		16923	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		16923	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 970 sqft)

Load component		Load	
Window total	60 sqft	2343	Btuh
Wall total	1680 sqft	2419	Btuh
Door total	60 sqft	773	Btuh
Ceiling total	970 sqft	1297	Btuh
Floor total		0	Btuh
Infiltration	63 cfm	1168	Btuh
Internal gain		2860	Btuh
Duct gain		1511	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Blower Load		0	Btuh
Total sensible gain		12371	Btuh
Latent gain(ducts)		240	Btuh
Latent gain(infiltration)		2293	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		4133	Btuh
TOTAL HEAT GAIN		16504	Btuh



EnergyGauge® System Sizing
 PREPARED BY: _____
 DATE: _____

TABLE 402.4.2

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Case Residence Street: City, State, Zip: , FL, 32055- Owner: Case Design Location: FL, Gainesville		Builder Name: Permit Office: Permit Number: Jurisdiction:	
COMPONENT	CRITERIA		CHECK
Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier. Breaks or joints in the air barrier are filled or repaired. Air-permeable insulation is not used as a sealing material. Air-permeable insulation is inside of an air barrier.		
Ceiling/attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed Attic access (except unvented attic), knee wall door, or drop down stair is sealed.		
Walls	Corners and headers are insulated. Junction of foundation and sill plate is sealed.		
Windows and doors	Space between window/door jambs and framing is sealed		
Rim joists	Rim joists are insulated and include an air barrier.		
Floors (including above-garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking Air barrier is installed at any exposed edge of insulation		
Crawl space walls	Insulation is permanently attached to walls. Exposed earth in unvented crawl spaces is covered with Class I vapor retarder with overlapping joints taped		
Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed		
Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.		
Garage separation	Air sealing is provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures are air tight, IC rated, and sealed to drywall. Exception—fixtures in conditioned space.		
Plumbing and wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.		
Shower/tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.		
Electrical/phone box on	Air barrier extends behind boxes or air sealed-type boxes are installed.		
Common wall	Air barrier is installed in common wall between dwelling units.		
HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.		
Fireplace	Fireplace walls include an air barrier.		

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

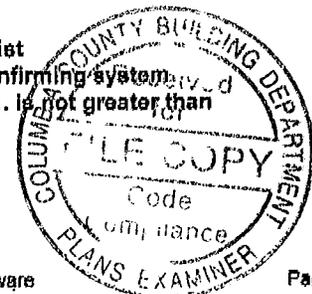
Project Name: Case Residence	Builder Name
Street	Permit Office:
City, State, Zip: FL, 32055-	Permit Number:
Owner: Case	Jurisdiction:
Design Location: FL, Gainesville	

1 New construction or existing	New (From Plans)	9 Wall Types (1800.2 sqft)	Insulation	Area
2 Single family or multiple family	Single-family	a. Frame - Wood, Exterior	R=19.0	1240.20 ft ²
3 Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=19.0	560.00 ft ²
4 Number of Bedrooms	2	c. N/A	R=	ft ²
5 Is this a worst case?	No	d. N/A	R=	ft ²
6. Conditioned floor area above grade (ft ²)	970	10 Ceiling Types (970.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Under Attic (Vented)	R=30.0	970.00 ft ²
7 Windows(60.0 sqft.)	Description	b. N/A	R=	ft ²
a. U-Factor	DbI, U=0.55	c. N/A	R=	ft ²
SHGC	SHGC=0.50	11 Ducts		R ft ²
b. U-Factor	N/A	a. Sup Attic, Ret: Main, AH, Main		6 194
SHGC				
c. U-Factor:	N/A	12. Cooling systems	kBtu/hr	Efficiency
SHGC		a. Central Unit	24.0	SEER:13.00
d. U-Factor	N/A	13 Heating systems	kBtu/hr	Efficiency
SHGC		a. Electric Heat Pump	24.0	HSPF:8.00
Area Weighted Average Overhang Depth	2.000 ft	14 Hot water systems		
Area Weighted Average SHGC	0.500	a. Electric		Cap 40 gallons
8. Floor Types (970.0 sqft.)	Insulation	b. Conservation features		EF: 0.920
a. Slab-On-Grade Edge Insulation	R=0.0			
b. N/A	R=	15. Credits		CF
c. N/A	R=			

Glass/Floor Area: 0.062	Total Proposed Modified Loads: 21.17	PASS
	Total Standard Reference Loads: 29.17	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>Jean Doucette</u></p> <p>DATE: _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.</p> <div style="text-align: center;">  </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
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- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist
- Compliance requires an air distribution system test report, by a Florida Class 1 Rater, confirming system leakage to outdoors tested at 25 pascals pressure difference in accordance with 403.2.2.1. is not greater than (29 cfm:Duct#1)



WALLS														
✓ #	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	19	24	3 5	14	0	340.1 ft²		0.23	0.75	0
2	E	Exterior	Frame - Wood	Main	19	40	0	14		560.0 ft²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	19	24	3 5	14		340.1 ft²		0.23	0.75	0
4	W	Garage	Frame - Wood	Main	19	40		14		560.0 ft²		0.23	0.75	0

DOORS										
✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	6		6	8	40 ft²
2	W	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS													
Orientation shown is the entered, Proposed orientation													
✓ #	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Area	Overhang Depth	Separation	Int Shade	Screening	
1	N	1	Metal	Double (Tinted)	Yes	0.55	0.5	5.0 ft²	2 ft 0 in	7 ft 0 in	Drapes/blinds	Interior 5	
2	E	2	Metal	Double (Tinted)	Yes	0.55	0.5	5.0 ft²	2 ft 0 in	7 ft 0 in	Drapes/blinds	Interior 5	

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation	
1	1430 ft²	1430 ft²	11.5 ft	14 ft	19	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0003	763.3	41.9	78.8	.231	3.3724

HEATING SYSTEM							
✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts	
1	Electric Heat Pump	None	HSPF 8	24 kBtu/hr	1	sys#1	

COOLING SYSTEM								
✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit	Split	SEER: 13	24 kBtu/hr	720 cfm	0.75	1	sys#1

HOT WATER SYSTEM									
✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation	
1	Electric	None	Main	0.92	40 gal	50 gal	120 deg	None	

SOLAR HOT WATER SYSTEM														
<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #		Collector Model #		Collector Area	Storage Volume	FEF					
	None	None					ft ²							
DUCTS														
<input checked="" type="checkbox"/>	#	Location	--- Supply --- R-Value	Area	--- Return --- Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
	1	Attic	6	194 ft ²	Main	48.5 ft ²	Prop Leak Free	Main	--- cfm	29.1 cfm	0.03	0.60	1	1
TEMPERATURES														
Programmable Thermostat: None							Ceiling Fans							
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input checked="" 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 type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input 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		
Thermostat Schedule: HERS 2008 Reference														
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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 73

The lower the Energy Performance Index, the more efficient the home

, , FL, 32055-

<p>1 New construction or existing 2 Single family or multiple family 3 Number of units, if multiple family 4 Number of Bedrooms 5 Is this a worst case? 6 Conditioned floor area (ft²)</p>	<p>New (From Plans) Single-family 1 2 No 970</p>	<p>9 Wall Types a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A 10 Ceiling Types a. Under Attic (Vented) b. N/A c. N/A 11 Ducts a. Sup. Attic, Ret: Main, AH: Main</p>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">Insulation</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>R=19.0</td> <td>1240.20 ft²</td> </tr> <tr> <td>R=19.0</td> <td>560.00 ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td style="text-align: right;">Insulation</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>R=30.0</td> <td>970.00 ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td style="text-align: right;">R</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td></td> <td>6 194</td> </tr> </table>	Insulation	Area	R=19.0	1240.20 ft ²	R=19.0	560.00 ft ²	R=	ft ²	R=	ft ²	Insulation	Area	R=30.0	970.00 ft ²	R=	ft ²	R=	ft ²	R	ft ²		6 194
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<p>7 Windows** a. U-Factor SHGC b. U-Factor SHGC c. U-Factor SHGC d. U-Factor SHGC: Area Weighted Average Overhang Depth Area Weighted Average SHGC</p>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">Description</td> <td style="text-align: right;">Area</td> </tr> <tr> <td>U=0.55 SHGC=0.50</td> <td>60.00 ft²</td> </tr> <tr> <td>N/A</td> <td>ft²</td> </tr> <tr> <td>N/A</td> <td>ft²</td> </tr> <tr> <td>N/A</td> <td>ft²</td> </tr> <tr> <td></td> <td>2.000 ft</td> </tr> <tr> <td></td> <td>0.500</td> </tr> </table>	Description	Area	U=0.55 SHGC=0.50	60.00 ft ²	N/A	ft ²	N/A	ft ²	N/A	ft ²		2.000 ft		0.500	<p>12 Cooling systems a. Central Unit</p>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">kBTu/hr</td> <td style="text-align: right;">Efficiency</td> </tr> <tr> <td></td> <td>24.0 SEER/13.00</td> </tr> </table>	kBTu/hr	Efficiency		24.0 SEER/13.00				
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		<p>14 Hot water systems a. Electric b. Conservation features None</p>	<table border="0" style="width: 100%;"> <tr> <td style="text-align: right;">Cap: 40 gallons</td> </tr> <tr> <td style="text-align: right;">EF 0.92</td> </tr> </table>	Cap: 40 gallons	EF 0.92																				
Cap: 40 gallons																									
EF 0.92																									
		<p>15 Credits</p>	<p style="text-align: right;">CF</p>																						

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features

Builder Signature: _____ Date: _____
Address of New Home: _____ City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

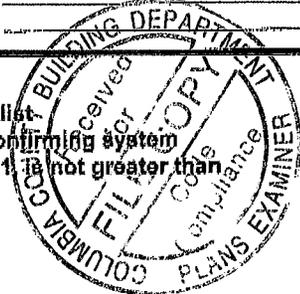
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Case Residence	Builder Name
Street	Permit Office:
City, State, Zip , FL , 32055-	Permit Number
Owner Case	Jurisdiction:
Design Location: FL, Gainesville	

<p>1 New construction or existing New (From Plans)</p> <p>2 Single family or multiple family Single-family</p> <p>3 Number of units, if multiple family 1</p> <p>4 Number of Bedrooms 2</p> <p>5 Is this a worst case? No</p> <p>6 Conditioned floor area above grade (ft²) 970 Conditioned floor area below grade (ft²) 0</p> <p>7 Windows(60.0 sqft.) Description Area a. U-Factor: Dbl, U=0.55 60.00 ft² SHGC: SHGC=0.50 b U-Factor: N/A ft² SHGC c U-Factor: N/A ft² SHGC d. U-Factor: N/A ft² SHGC Area Weighted Average Overhang Depth: 2.000 ft. Area Weighted Average SHGC 0.600</p> <p>8. Floor Types (970.0 sqft) Insulation Area a Slab-On-Grade Edge Insulation R=0.0 970.00 ft² b N/A R= ft² c. N/A R= ft²</p>	<p>9 Wall Types (1800.2 sqft) a. Frame - Wood, Exterior R=19.0 1240.20 ft² b Frame - Wood, Adjacent R=19.0 560.00 ft² c. N/A R= ft² d. N/A R= ft²</p> <p>10 Ceiling Types (970.0 sqft.) a Under Attic (Vented) Insulation Area R=30.0 970.00 ft² b. N/A R= ft² c. N/A R= ft²</p> <p>11 Ducts R ft² a Sup. Attic, Ret: Main, AH, Main 6 194</p> <p>12. Cooling systems kBtu/hr Efficiency a. Central Unit 24.0 SEER.13.00</p> <p>13 Heating systems kBtu/hr Efficiency a. Electric Heat Pump 24.0 HSPF.8.00</p> <p>14 Hot water systems a Electric Cap 40 gallons EF: 0.920 b. Conservation features None</p> <p>15. Credits CF</p>
--	--

Glass/Floor Area: 0.062	Total Proposed Modified Loads: 21.17	PASS
	Total Standard Reference Loads: 29.17	

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: <u>Jana Doucarter</u></p> <p>DATE: _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 563.008 Florida Statutes.</p> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p> <div style="text-align: right;">  </div>
---	--



- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist
- Compliance requires an air distribution system test report, by a Florida Class 1 Rater, confirming system leakage to outdoors tested at 25 pascals pressure difference in accordance with 403.2.2.1 is not greater than (29 cfm:Duct#1)

PROJECT											
Title	Case Residence	Bedrooms	2	Address Type: Street Address							
Building Type:	User	Conditioned Area:	970	Lot #							
Owner	Case	Total Stories:	1	Block/SubDivision							
# of Units	1	Worst Case	No	PlatBook:							
Builder Name		Rotate Angle	0	Street:							
Permit Office		Cross Ventilation		County: Columbia							
Jurisdiction:		Whole House Fan:		City, State, Zip							
Family Type	Single-family			FL, 32055-							
New/Existing	New (From Plans)										
Comment											
CLIMATE											
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Heating Degree Days Summer	Design Moisture	Daily Temp Range		
	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75 1305.5	51	Medium		
BLOCKS											
	Number	Name	Area	Volume							
	1	Block1	970	13580							
SPACES											
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
	1	Main	970	13580	Yes	2	2	1	Yes	Yes	Yes
FLOORS											
✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet		
	1	Slab-On-Grade Edge Insulatio	Main	88.5 ft	0	970 ft²	0.25	0	0.75		
ROOF											
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitl Tested	Deck Insul	Pitch (deg)
	1	Gable or shed	Metal	1085 ft²	242 ft²	Medium	0.06	No	0.9	No	0 28.6
ATTIC											
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC				
	1	Full attic	Vented	300	970 ft²	N	N				
CEILING											
✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type				
	1	Under Attic (Vented)	Main	30	970 ft²	0.11	Wood				

WALLS														
✓ #	Omt	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	19	24	3 5	14	0	340 1 ft²		0.23	0.75	0
2	E	Exterior	Frame - Wood	Main	19	40	0	14		560 0 ft²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	19	24	3 5	14		340 1 ft²		0.23	0.75	0
4	W	Garage	Frame - Wood	Main	19	40		14		560.0 ft²		0.23	0.75	0

DOORS										
✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	6		6	8	40 ft²
2	W	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS													
Orientation shown is the entered, Proposed orientation													
✓ #	Omt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Separation	Int Shade	Screening	
1	N	1	Metal	Double (Tinted)	Yes	0.55	0.5	5.0 ft²	2 ft 0 in	7 ft 0 in	Drapes/blinds	Interior 5	
2	E	2	Metal	Double (Tinted)	Yes	0.55	0.5	5.0 ft²	2 ft 0 in	7 ft 0 in	Drapes/blinds	Interior 5	

GARAGE						
✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation	
1	1430 ft²	1430 ft²	11.5 ft	14 ft	19	

INFILTRATION								
#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0003	763.3	41.9	78.8	.231	3.3724

HEATING SYSTEM							
✓ #	System Type	Subtype	Efficiency	Capacity	Block	Ducts	
1	Electric Heat Pump	None	HSPF: 8	24 kBtu/hr	1	sys#1	

COOLING SYSTEM								
✓ #	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
1	Central Unit	Split	SEER: 13	24 kBtu/hr	720 cfm	0.75	1	sys#1

HOT WATER SYSTEM								
✓ #	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
1	Electric	None	Main	0.92	40 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM															
<input checked="" type="checkbox"/>	FSEC Cert #	Company Name	System Model #		Collector Model #		Collector Area	Storage Volume	FEF						
	None	None					ft ²								
DUCTS															
<input checked="" type="checkbox"/>	#	--- Supply --- Location	R-Value	Area	--- Return --- Location	Area	Leakage Type		Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
	1	Attic	0	194 ft ²	Main	48.5 ft ²	Prop Leak Free		Main	--- cfm	29.1 cfm	0.03	0.60	1	1
TEMPERATURES															
Programable Thermostat: None						Ceiling Fans									
Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" 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 type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec			
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" 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 checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec			
Thermostat Schedule:	HERS 2008 Reference						Hours								
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	78
	PM	78	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	78
	PM	78	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	68
	PM	68	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	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68	68	68

FORM 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS: FL, 32055-	PERMIT #:
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MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.	
	403.3.3	Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/15/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 73

The lower the Energy Performance Index, the more efficient the home

, , FL, 32055-

<p>1 New construction or existing New (From Plans)</p> <p>2 Single family or multiple family Single-family</p> <p>3 Number of units, if multiple family 1</p> <p>4 Number of Bedrooms 2</p> <p>5 Is this a worst case? No</p> <p>6 Conditioned floor area (ft²) 970</p> <p>7 Windows**</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">a U-Factor:</td> <td style="width: 40%;">Description Db), U=0.55</td> <td style="width: 40%; text-align: right;">Area</td> </tr> <tr> <td></td> <td>SHGC</td> <td style="text-align: right;">60.00 ft²</td> </tr> <tr> <td></td> <td>SHGC=0.50</td> <td></td> </tr> <tr> <td>b U-Factor:</td> <td>N/A</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td>c U-Factor:</td> <td>N/A</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td>d U-Factor:</td> <td>N/A</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td></td> <td>SHGC:</td> <td></td> </tr> <tr> <td colspan="2">Area Weighted Average Overhang Depth</td> <td style="text-align: right;">2.000 ft.</td> </tr> <tr> <td colspan="2">Area Weighted Average SHGC:</td> <td style="text-align: right;">0.500</td> </tr> </table> <p>8 Floor Types</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">a Slab-On-Grade Edge Insulation</td> <td style="width: 40%;">Insulation R=0.0</td> <td style="width: 40%; text-align: right;">Area 970.00 ft²</td> </tr> <tr> <td>b N/A</td> <td>R=</td> <td style="text-align: right;">ft²</td> </tr> <tr> <td>c N/A</td> <td>R=</td> <td style="text-align: right;">ft²</td> </tr> </table>	a U-Factor:	Description Db), U=0.55	Area		SHGC	60.00 ft ²		SHGC=0.50		b U-Factor:	N/A	ft ²		SHGC:		c U-Factor:	N/A	ft ²		SHGC:		d U-Factor:	N/A	ft ²		SHGC:		Area Weighted Average Overhang Depth		2.000 ft.	Area Weighted Average SHGC:		0.500	a Slab-On-Grade Edge Insulation	Insulation R=0.0	Area 970.00 ft ²	b N/A	R=	ft ²	c N/A	R=	ft ²	<p>9 Wall Types</p> <p>a. Frame - Wood, Exterior</p> <p>b. Frame - Wood, Adjacent</p> <p>c. N/A</p> <p>d. N/A</p> <p>10 Ceiling Types</p> <p>a. Under Attic (Vented)</p> <p>b. N/A</p> <p>c. N/A</p> <p>11 Ducts</p> <p>a. Sup. Attic, Ret: Main, AH: Main</p> <p>12 Cooling systems</p> <p>a. Central Unit</p> <p>13 Heating systems</p> <p>a. Electric Heat Pump</p> <p>14 Hot water systems</p> <p>a. Electric</p> <p>b. Conservation features</p> <p>None</p> <p>15 Credits</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">Insulation</td> <td style="width: 80%;">Area</td> </tr> <tr> <td>R=19.0</td> <td>1240.20 ft²</td> </tr> <tr> <td>R=19.0</td> <td>860.00 ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>R=30.0</td> <td>970.00 ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>R=</td> <td>ft²</td> </tr> <tr> <td>R</td> <td>ft²</td> </tr> <tr> <td>6</td> <td>194</td> </tr> </table> <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 20%;">kBTu/hr</td> <td style="width: 80%;">Efficiency</td> </tr> <tr> <td>24.0</td> <td>SEER:13.00</td> </tr> </table> <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 20%;">kBTu/hr</td> <td style="width: 80%;">Efficiency</td> </tr> <tr> <td>24.0</td> <td>HSPF:8.00</td> </tr> </table> <p style="margin-top: 10px;">Cap: 40 gallons</p> <p style="margin-left: 20px;">EF 0.92</p> <p style="text-align: right; margin-top: 10px;">CF</p>	Insulation	Area	R=19.0	1240.20 ft ²	R=19.0	860.00 ft ²	R=	ft ²	R=	ft ²	Insulation	Area	R=30.0	970.00 ft ²	R=	ft ²	R=	ft ²	R	ft ²	6	194	kBTu/hr	Efficiency	24.0	SEER:13.00	kBTu/hr	Efficiency	24.0	HSPF:8.00
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I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.