

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: zasciurinskas res
 Street:
 City, State, Zip: , FL ,
 Owner:
 Design Location: FL, Gainesville

Builder Name: amira
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: Alachua (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	4
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	3228
Conditioned floor area below grade (ft²)	0
7. Windows(468.5 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.31 468.50 ft²
SHGC:	SHGC=0.27
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:	1.500 ft.
Area Weighted Average SHGC:	0.270
8. Floor Types (3228.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 3228.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²

9. Wall Types(2730.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=21.0 2530.00 ft²
b. Frame - Wood, Adjacent	R=21.0 200.00 ft²
c. N/A	R= ft²
d. N/A	R= ft²
10. Ceiling Types (3228.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 3228.00 ft²
b. N/A	R= ft²
c. N/A	R= ft²
11. Ducts	R ft²
a. Sup: Attic, Ret: Attic, AH: Garage	6 455
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	60.0 SEER:14.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	60.0 HSPF:8.20
14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.990
b. Conservation features	
None	
15. Credits	CF, Pstat

Glass/Floor Area: 0.145

Total Proposed Modified Loads: 84.90

Total Baseline Loads: 84.82

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY:
 DATE: 6-3-20

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT:
 DATE:

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.



BUILDING OFFICIAL:
 DATE:

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	zasciurinskas res	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	3228	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	amira	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	3228	32280

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	3228	32280	Yes	1	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	224 ft	0	3228 ft²	----	1	0	0

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	3496 ft²	0 ft²	Medium	N	0.85	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3228 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	3228 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

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	NE	Garage	Frame - Wood	Main	21	20	10	200.0 ft²		0.23	0.75	0
___ 2	N	Exterior	Frame - Wood	Main	21	20	10	200.0 ft²		0.23	0.75	0
___ 3	E	Exterior	Frame - Wood	Main	21	83	10	830.0 ft²		0.23	0.75	0
___ 4	S	Exterior	Frame - Wood	Main	21	53	10	530.0 ft²		0.23	0.75	0
___ 5	W	Exterior	Frame - Wood	Main	21	97	10	970.0 ft²		0.23	0.75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
___ 1	NE	Insulated	Main	None	.46	2 8	8	21.3 ft²
___ 2	E	Wood	Main	None	.46	6	8	48 ft²
___ 3	W	Insulated	Main	None	.46	2 8	8	21.3 ft²
___ 4	W	Insulated	Main	None	.46	2 6	8	20 ft²
___ 5	W	Insulated	Main	None	.46	6	8	48 ft²
___ 6	W	Insulated	Main	None	.46	2 8	8	21.3 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___ 1	N	2	Vinyl	Low-E Double	Yes	0.31	0.27	N	36.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 2	N	2	Vinyl	Low-E Double	Yes	0.31	0.27	N	6.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 3	E	3	Vinyl	Low-E Double	Yes	0.31	0.27	N	108.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 4	E	3	Vinyl	Low-E Double	Yes	0.31	0.27	N	12.5 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 5	S	4	Vinyl	Low-E Double	Yes	0.31	0.27	N	90.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 6	S	4	Vinyl	Low-E Double	Yes	0.31	0.27	N	6.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 7	W	5	Vinyl	Low-E Double	Yes	0.31	0.27	N	16.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 8	W	5	Vinyl	Low-E Double	Yes	0.31	0.27	N	50.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 9	W	5	Vinyl	Low-E Double	Yes	0.31	0.27	N	72.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5
___ 10	W	5	Vinyl	Low-E Double	Yes	0.31	0.27	N	72.0 ft²	1 ft 6 in	2 ft 0 in	Drapes/blinds	Exterior 5

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	382.8 ft²	382.8 ft²	64 ft	8 ft	1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000318	2690	147.68	277.73	.1307	5

INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM														
✓	#	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts						
_____	1	Electric Heat Pump/	Split	Singl	HSPF:8.2	60 kBtu/hr	1	sys#1						
COOLING SYSTEM														
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts				
_____	1	Central Unit/	Split	Singl	SEER: 14	60 kBtu/hr	1800 cfm	0.75	1	sys#1				
HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric	None	Garage	0.99	50 gal	70 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	Company Name	System Model #			Collector Model #		Collector Area	Storage Volume	FEF				
_____	None	None						ft²						
DUCTS														
✓	#	---- Supply ----			---- Return ----		Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat Cool	
_____	1	Attic	6	455 ft²	Attic	161.4 ft	Default Leakage	Garage	(Default)	(Default)			1	1
TEMPERATURES														
Programable Thermostat: Y					Ceiling Fans:									
Cooling Heating Venting	<input type="checkbox"/> Jan <input checked="" type="checkbox"/> Jan	<input type="checkbox"/> Feb <input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr <input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May <input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun <input type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul <input type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug <input type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep <input type="checkbox"/> Sep	<input type="checkbox"/> Oct <input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec <input checked="" type="checkbox"/> Dec		
Thermostat Schedule: HERS 2006 Reference														
Schedule Type			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 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
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
MASS														
Mass Type			Area			Thickness			Furniture Fraction			Space		
Default(8 lbs/sq.ft.			0 ft²			0 ft			0.3			Main		

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 100****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>4</u>	c) AHU location <u>Garage</u>
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	13. Cooling system: Capacity <u>60.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>3228</u>	a) Split system SEER <u>14.0</u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.310</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.270</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>468.5</u>	e) Other <u> </u>
8. Skylights		14. Heating system: Capacity <u>60.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u>8.2</u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u> </u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u>0.99</u>
1. Wood frame (Insulation R-value)	10A1. <u>21.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u> </u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u>21.0</u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u>Yes</u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: __, FL _____