


FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

ProjectName: AmiraCreasey Street: City, State, Zip: , FL , Owner: Creasey DesignLocation: FL, Gainesville	BuilderName: Amira Builders Permit Office: PermitNumber: Jurisdiction: County: Alachua (Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Detached 3. Number of units, if multiple family 1 4. Number of Bedrooms 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2028 Conditioned floor area below grade (ft²) 0 7. Windows (176.0 sqft.) Description Area a. U-Factor: Dbl, U=0.34 176.00 ft² SHGC: SHGC=0.23 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft. Area Weighted Average SHGC: 0.230 8. Skylights Area c. U-Factor:(AVG) N/A ft² SHGC(AVG): N/A 9. Floor Types (2028.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2028.00 ft² b. N/A R= ft² c. N/A R= ft²	10. Wall Types(1903.3 sqft.) Insulation Area a. Frame - Wood, Exterior R=19.0 1603.30 ft² b. Frame - Wood, Adjacent R=19.0 300.00 ft² c. N/A R= ft² d. N/A R= ft² 11. Ceiling Types (2028.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2028.00 ft² b. N/A R= ft² c. N/A R= ft² 12. Ducts R ft² a. Sup: Attic, Ret: Attic, AH: Garage 6 300 13. Cooling systems kBtu/hr Efficiency a. Central Unit 33.0 SEER:14.00 14. Heating systems kBtu/hr Efficiency a. Electric Heat Pump 33.8 HSPF:8.20 15. Hot water systems a. Electric Cap: 40 gallons b. Conservation features EF: 0.920 None 16. Credits CF, Pstat
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Glass/Floor Area: 0.087	Total Proposed Modified Loads: 46.55	PASS
	Total Baseline Loads: 49.05	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____ 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. <div style="text-align: center;">  </div> BUILDING OFFICIAL: _____ DATE: _____
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- 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:	AmiraCreasey	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	ConditionedArea:	2028	Lot #	
Owner Name:	Creasey	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Amira Builders	RotateAngle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Alachua
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Detached				
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	DegreeDays	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2028	20280

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2028	20280	Yes	3	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	Main	192 ft	0	2028 ft²	----	0.22	0.22	0.56

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2348 ft²	592 ft²	Medium	N	0.96	No	0.9	No	0	30.26

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2028 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2028 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	N	Exterior	Frame - Wood	Main	19	61	8	10		616.7 ft²		0.111	0.150000	0
___ 2	E	Exterior	Frame - Wood	Main	19	30		10		300.0 ft²		0.111	0.150000	0
___ 3	S	Garage	Frame - Wood	Main	19	30		10		300.0 ft²		0.111	0.150000	0
___ 4	S	Exterior	Frame - Wood	Main	19	34		10		340.0 ft²		0.111	0.150000	0
___ 5	W	Exterior	Frame - Wood	Main	19	34	8	10		346.7 ft²		0.111	0.150000	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___ 1	N	Insulated	Main	None	.46	6		8		48 ft²
___ 2	S	Insulated	Main	None	.46	2	8	8		21.3 ft²
___ 3	S	Insulated	Main	None	.46	1		8		8 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___ 1	N	1	Vinyl	Low-E Double	Yes	0.34	0.23	N	96.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 2	E	2	Vinyl	Low-E Double	Yes	0.34	0.23	N	6.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 3	S	4	Vinyl	Low-E Double	Yes	0.34	0.23	N	12.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 4	S	4	Vinyl	Low-E Double	Yes	0.34	0.23	N	16.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 5	S	4	Vinyl	Low-E Double	Yes	0.34	0.23	N	40.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None
___ 6	W	5	Vinyl	Low-E Double	Yes	0.34	0.23	N	6.0 ft²	1 ft 6 in	1 ft 6 in	Drapes/blinds	None

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)	.000317	1690	92.72	174.07	.1071	5

HEATING SYSTEM

✓ #	System Type	Subtype	Speed	Efficiency	Capacity	Block	Ducts
___ 1	Electric Heat Pump/	None	Single	HSPF:8.2	33.8 kBtu/hr	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM														
✓	#	System Type	Subtype	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts				
_____	1	Central Unit/	None	Single	SEER: 14	33 kBtu/hr	1100 cfm	0.75	1	sys#1				
HOT WATER SYSTEM														
✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric	None	Garage	0.92	40 gal	60 gal	120 deg	None					
SOLAR HOT WATER SYSTEM														
✓	FSEC Cert #	CompanyName	System Model #			Collector Model #		Collector Area	Storage Volume	FEF				
_____	None	None						ft²						
DUCTS														
✓	#	---- Supply ----			---- Return ----			Air	CFM 25	CFM25			HVAC #	
		Location	R-Value	Area	Location	Area	LeakageType	Handler	TOT	OUT	QN	RLF	Heat Cool	
_____	1	Attic	6	300 ft²	Attic	101.4 ft²	DefaultLeakage	Garage	(Default)	c(Default)	c		1 1	
TEMPERATURES														
ProgrammableThermostat: Y				Ceiling Fans:										
Cooling	<input type="checkbox"/> Jan	<input 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 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 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		
ThermostatSchedule: HERS 2006 Reference														
ScheduleType			1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	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	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
MASS														
Mass Type	Area			Thickness			FurnitureFraction			Space				
Default(8 lbs/sq.ft.)	0 ft²			0 ft			0.3			Main				

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Florida Department of Business and Professional Regulation - Residential Performance Method

ProjectName: AmiraCreasey
 Street:
 City, State, Zip: , FL ,
 Owner: Creasey
 DesignLocation: FL, Gainesville

BuilderName: Amira Builders
 Permit Office:
 PermitNumber:
 Jurisdiction:
 County: Alachua (Florida Climate Zone 2)

1. New construction or existing New (From Plans)
 2. Single family or multiple family Detached
 3. Number of units, if multiple family 1
 4. Number of Bedrooms 3
 5. Is this a worst case? No
 6. Conditioned floor area above grade (ft²) 2028
 Conditioned floor area below grade (ft²) 0
 7. Windows (176.0 sqft.) Description Area
 a. U-Factor: Dbl, U=0.34 176.00 ft²
 SHGC: SHGC=0.23
 b. U-Factor: N/A ft²
 SHGC:
 c. U-Factor: N/A ft²
 SHGC:
 Area Weighted Average Overhang Depth: 1.500 ft.
 Area Weighted Average SHGC: 0.230
 8. Skylights Area
 c. U-Factor:(AVG) N/A ft²
 SHGC(AVG): N/A
 9. Floor Types (2028.0 sqft.) Insulation Area
 a. Slab-On-Grade Edge Insulation R=0.0 2028.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²

10. Wall Types(1903.3 sqft.) Insulation Area
 a. Frame - Wood, Exterior R=19.0 1603.30 ft²
 b. Frame - Wood, Adjacent R=19.0 300.00 ft²
 c. N/A R= ft²
 d. N/A R= ft²
 11. Ceiling Types (2028.0 sqft.) Insulation Area
 a. Under Attic (Vented) R=30.0 2028.00 ft²
 b. N/A R= ft²
 c. N/A R= ft²
 12. Ducts R ft²
 a. Sup: Attic, Ret: Attic, AH: Garage 6 300
 13. Cooling systems kBtu/hr Efficiency
 a. Central Unit 33.0 SEER:14.00
 14. Heating systems kBtu/hr Efficiency
 a. Electric Heat Pump 33.8 HSPF:8.20
 15. Hot water systems
 a. Electric Cap: 40 gallons
 EF: 0.920
 b. Conservation features
 None
 16. Credits CF, Pstat

Glass/Floor Area: 0.087

Total Proposed Modified Loads: 46.55

Total Baseline Loads: 49.05

PASS

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

PREPARED BY: *John B. Z. II* (Tight Seal Inc.)

DATE: 9/2/21

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).

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 95

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

1. New construction or existing	New (From Plans)	10. Wall Type and Insulation	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	1603.30 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=19.0	300.00 ft²
4. Number of Bedrooms	3	c. N/A	R=	ft²
5. Is this a worst case?	No	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	2028	11. Ceiling Type and insulation level	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2028.00 ft²
a. U-Factor:	Dbl, U=0.34	b. N/A	R=	ft²
SHGC:	SHGC=0.23	c. N/A	R=	ft²
b. U-Factor:	N/A	12. Ducts, location & insulation level	R	ft²
SHGC:		a. Sup: Attic, Ret: Attic, AH: Garage	6	300
c. U-Factor:	N/A			
SHGC:		13. Cooling systems	kBtu/hr	Efficiency
d. U-Factor:	N/A	a. Central Unit	33.0	SEER:14.00
SHGC:				
Area Weighted Average Overhang Depth:	1.500 ft.	14. Heating systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.230	a. Electric Heat Pump	33.8	HSPF:8.20
8. Skylights	Description			
a. U-Factor(AVG):	N/A	15. Hot water systems		Cap: 40 gallons
SHGC(AVG):	N/A	a. Electric		EF: 0.92
9. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	Credits (Performance method)		CF, Pstat
c. N/A	R=			

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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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