

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Swink Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia(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      4 5. Is this a worst case?      No 6. Conditioned floor area above grade (ft²)      3000 Conditioned floor area below grade (ft²)      0 7. Windows(210.0 sqft.)      Description      Area a. U-Factor:      Dbl, U=0.26      210.00 ft² SHGC:      SHGC=0.20 b. U-Factor:      N/A      ft² SHGC: c. U-Factor:      N/A      ft² SHGC: Area Weighted Average Overhang Depth:      18.214 ft Area Weighted Average SHGC:      0.200 8. Skylights      Description      Area U-Factor:(AVG)      N/A      N/A ft² SHGC(AVG):      N/A 9. Floor Types      Insulation      Area a. Slab-On-Grade Edge Insulation      R= 0.0      1500.00 ft² b. Floor Over Other Space      R= 0.0      1500.00 ft² c. N/A      R=      ft²	10. Wall Types(2986.7 sqft.)      Insulation      Area a. Frame - Wood, Exterior      R=19.0      2426.70 ft² b. Frame - Wood, Adjacent      R=13.0      560.00 ft² c. N/A      R=      ft² d. N/A      R=      ft² 11. Ceiling Types(3000.0 sqft.)      Insulation      Area a. Cathedral/Single Assembly (Unvented)      R=30.0      3000.00 ft² b. N/A      R=      ft² c. N/A      R=      ft² 12. Ducts, location & insulation level      R      ft² a. a. Sup: 1st Floor, Ret: 1st Floor, AH: 1st Floor 6      300 b. b. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor 6      300 c. 13. Cooling Systems      kBtu/hr      Efficiency a. Central Unit      30.0      SEER:15.00 b. Central Unit      30.0      SEER:15.00 14. Heating Systems      kBtu/hr      Efficiency a. Electric Heat Pump      30.0      HSPF:8.50 b. Electric Heat Pump      30.0      HSPF:8.50 15. Hot Water Systems a. Electric Tankless      Cap: 1 gallons EF: 0.920 b. Conservation features      None CF, Pstat 16. Credits
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Glass/Floor Area: 0.070	Total Proposed Modified Loads: 59.62	<b>PASS</b>
	Total Baseline Loads: 73.32	

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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

# INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Swink Residence			Address type:	Street Address																			
Building Type:	User			Bedrooms:	4		Lot #:	---																
Owner:				Conditioned Area:	3000		Block/SubDivision:	---																
				Total Stories:	2		PlatBook:	---																
Builder Name:				Worst Case:	No		Street:																	
Permit Office:				Rotate Angle:	0		County:	Columbia																
Jurisdiction:				Cross Ventilation:			City, State, Zip:	, FL,																
Family Type:	Detached			Whole House Fan:																				
New/Existing:	New (From Plans)			Terrain:	Rural																			
Year Construct:	2022			Shielding:	Moderate/Rural																			
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_REGIONA			32 92		70 75		1305.5		51		Medium												
BLOCKS																								
✓ Number	Name		Area		Volume																			
___ 1	Block1		1500		15000																			
___ 2	Block2		1500		13000.5																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	1st Floor		1500		15000		Yes		4		2		Yes		Yes		Yes							
___ 2	2nd Floor		1500		13000.5		Yes		4		2		Yes		Yes		Yes							
FLOORS													(Total Exposed Area = 1500 sq.ft.)											
✓ #	Floor Type		Space		Exposed Perim		Perimeter R-Value		Area		U-Factor		Joist R-Value		Tile		Wood		Carpet					
___ 1	Slab-On-Grade Edge Ins		1st Floor		160		0		1500 ft		0.600		---		0.33		0.33		0.34					
___ 2	Floor Over Other Space		2nd Floor		---		---		1500 ft		0.245				0.33		0.33		0.34					
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		Metal		1581 ft²		2500 ft²		Finished, Galvanized		No		0.7		No		0.7		No		0		18.43	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	No attic		Unvented		0		1500 ft²		N		N													

# INPUT SUMMARY CHECKLIST REPORT

CEILING (Total Exposed Area = 3000 sq.ft.)														
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type						
___ 1	Cathedral/Single Assembly(Unvented)	1st Floor	30.0	Blown	1500.0ft²	0.060	0.11	Wood						
___ 2	Cathedral/Single Assembly(Unvented)	2nd Floor	30.0	Blown	1500.0ft²	0.060	0.11	Wood						

WALLS (Total Exposed Area = 2987 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	1st Floor	19.0	30.0	0	10.0	0	300.0	0.071		0.23	0.75	0 %
___ 2	E	Exterior	Frame - Wood	1st Floor	19.0	20.0	0	10.0	0	200.0	0.071		0.23	0.75	0 %
___ 3	E	Garage	Frame - Wood	1st Floor	13.0	30.0	0	10.0	0	300.0	0.094		0.23	0.75	0 %
___ 4	S	Exterior	Frame - Wood	1st Floor	19.0	30.0	0	10.0	0	300.0	0.071		0.23	0.75	0 %
___ 5	W	Exterior	Frame - Wood	1st Floor	19.0	50.0	0	10.0	0	500.0	0.071		0.23	0.75	0 %
___ 6	N	Exterior	Frame - Wood	2nd Floor	19.0	30.0	0	8.0	8	260.0	0.071		0.23	0.75	0 %
___ 7	E	Exterior	Frame - Wood	2nd Floor	19.0	20.0	0	8.0	8	173.3	0.071		0.23	0.75	0 %
___ 8	E	Garage	Frame - Wood	2nd Floor	13.0	30.0	0	8.0	8	260.0	0.094		0.23	0.75	0 %
___ 9	S	Exterior	Frame - Wood	2nd Floor	19.0	30.0	0	8.0	8	260.0	0.071		0.23	0.75	0 %
___ 10	W	Exterior	Frame - Wood	2nd Floor	19.0	50.0	0	8.0	8	433.3	0.071		0.23	0.75	0 %

DOORS (Total Exposed Area = 180 sq.ft.)														
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area			
___ 1	E	Exterior	Insulated	1st Floor	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 2	S	Exterior	Insulated	1st Floor	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 3	W	Exterior	Insulated	1st Floor	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 4	E	Garage	Insulated	2nd Floor	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 5	W	Exterior	Insulated	2nd Floor	None	0.40	3.00	0	6.00	8	20.0ft²			
___ 6	W	Exterior	Insulated	1st Floor	None	0.40	6.00	0	6.00	8	40.0ft²			
___ 7	W	Exterior	Insulated	2nd Floor	None	0.40	6.00	0	6.00	8	40.0ft²			

WINDOWS (Total Exposed Area = 210 sq.ft.)													
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp Storm	Area	-----Overhang----- Depth Separation		Interior Shade	Screening
___ 1	N	1	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	11.0 ft 0 in	None	None
___ 2	S	4	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	11.0 ft 0 in	None	None
___ 3	W	5	Vinyl	Low-E Double	Yes	0.26	0.20	N N	45.0ft²	40.0 ft 6 in	2.0 ft 4 in	None	None
___ 4	N	6	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 5	S	9	Vinyl	Low-E Double	Yes	0.26	0.20	N N	30.0ft²	1.0 ft 6 in	2.0 ft 4 in	None	None
___ 6	W	10	Vinyl	Low-E Double	Yes	0.26	0.20	N N	45.0ft²	40.0 ft 6 in	2.0 ft 4 in	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	
___ 1	Wholehouse	Proposed ACH(50)	0.00030	2333	128.02	240.34	0.1375	5.0	All	

GARAGE					
✓ #	Floor Area	Roof Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
___ 1	910 ft²	910 ft²	91 ft	10 ft	1

## INPUT SUMMARY CHECKLIST REPORT

MASS													
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space								
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	1st Floor								
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	2nd Floor								

HEATING SYSTEM											
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---				Ducts	Block
						Entry	Power	Volt	Current		
___ 1	Electric Heat Pump	None/Single		HSPF: 8.50	30.0		0.00	0.00	0.00	sys#1	1
___ 2	Electric Heat Pump	None/Single		HSPF: 8.50	30.0		0.00	0.00	0.00	sys#2	2

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:15.0	30.0	900	0.85	sys#1	1
___ 2	Central Unit	None/Single		SEER:15.0	30.0	900	0.85	sys#2	2

HOT WATER SYSTEM										
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	Tankless	Garage	0.92 (0.92)	1.00 gal	70 gal	120 deg	Standard	None	99

	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS													
✓ Duct #	Location	-----Supply----- R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool			
___ 1	1st Floor	6.0 300 ft²	1st Floor 6.0 75 ft²	Prop. Leak Free	1st Floor	---	---	0.03	0.50	1 1			
___ 2	2nd Floor	6.0 300 ft²	2nd Floor 6.0 75 ft²	Prop. Leak Free	2nd Floor	---	---	0.03	0.50	2 2			

TEMPERATURES													
Programable Thermostat: Y				Ceiling Fans: N									
Cooling	[ ] Jan	[ ] Feb	[ ] Mar	[ ] Apr	[ ] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[ ] Oct	[ ] Nov	[ ] Dec	
Heating	[X] Jan	[X] Feb	[X] Mar	[ ] Apr	[ ] May	[ ] Jun	[ ] Jul	[ ] Aug	[ ] Sep	[ ] Oct	[X] Nov	[X] Dec	
Venting	[ ] Jan	[ ] Feb	[X] Mar	[X] Apr	[ ] May	[ ] Jun	[ ] Jul	[ ] Aug	[ ] Sep	[X] Oct	[X] Nov	[ ] 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 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
___ Heating (WD)	AM PM	65 68	65 68	65 68	65 68	65 68	65 68	65 68	68 68	68 68	68 68	68 68	68 68

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

___ Heating (WEH)	AM	65	65	65	65	65	65	65	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

## ESTIMATED ENERGY PERFORMANCE INDEX\* = 81

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

„FL,

1. New construction or existing	New (From Plans)	10. Wall Types(2986.7 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=19.0	2426.70 ft <sup>2</sup>
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	560.00 ft <sup>2</sup>
4. Number of Bedrooms	4	c. N/A	R=	ft <sup>2</sup>
5. Is this a worst case?	No	d. N/A	R=	ft <sup>2</sup>
6. Conditioned floor area above grade (ft <sup>2</sup> )	3000	11. Ceiling Types(3000.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft <sup>2</sup> )	0	a. Cathedral/Single Assembly (Unvented)	R=10.0	3000.00 ft <sup>2</sup>
7. Windows**	Description	b. N/A	R=	ft <sup>2</sup>
a. U-Factor:	Dbl, U=0.26	c. N/A	R=	ft <sup>2</sup>
SHGC:	SHGC=0.20	12. Ducts, location & insulation level	R	ft <sup>2</sup>
b. U-Factor:	N/A	a. a. Sup: 1st Floor, Ret: 1st Floor, AH: 1st Floor 6	300	
SHGC:		b. b. Sup: 2nd Floor, Ret: 2nd Floor, AH: 2nd Floor 6	300	
c. U-Factor:	N/A	c.		
SHGC:		13. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average Overhang Depth:	18.214 ft	a. Central Unit	30.0	SEER:15.00
Area Weighted Average SHGC:	0.200	b. Central Unit	30.0	SEER:15.00
8. Skylights	Description	14. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	30.0	HSPF:8.50
SHGC(AVG):	N/A	b. Electric Heat Pump	30.0	HSPF:8.50
9. Floor Types	Insulation	15. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. ElectricTankless	Cap: 1 gallons	
b. Floor Over Other Space	R= 0.0		EF: 0.920	
c. N/A	R=	b. Conservation features		
				None
		16. Credits		CF, Pstat

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: „FL,



\*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.