

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION


Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Dent - Inlaw Suite		Builder Name:	
Street:		Permit Office:	
City, State, Zip: , FL,		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Gainesville		County: Columbia(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		1	
5. Is this a worst case?		No	
6. Conditioned floor area above grade (ft²)		787	
Conditioned floor area below grade (ft²)		0	
7. Windows(82.0 sqft.)		Description	
a. U-Factor:		Dbl, U=0.26	
SHGC:		SHGC=0.20	
b. U-Factor:		N/A	
SHGC:		ft²	
c. U-Factor:		N/A	
SHGC:		ft²	
Area Weighted Average Overhang Depth:		1.500 ft	
Area Weighted Average SHGC:		0.200	
8. Skylights		Description	
U-Factor:(AVG)		N/A	
SHGC(AVG):		N/A	
9. Floor Types		Insulation	
a. Slab-On-Grade Edge Insulation		R= 0.0	
b. N/A		R=	
c. N/A		R=	
10. Wall Types(960.0 sqft.)		Insulation	
a. Frame - Wood, Exterior		R=13.0	
b. N/A		Area	
c. N/A		960.00 ft²	
d. N/A			
11. Ceiling Types(787.0 sqft.)		Insulation	
a. Single assembly, no ai (Unvented)		R=30.0	
b. N/A		Area	
c. N/A		787.00 ft²	
12. Roof(Metal, Unvent)		Deck R=30.0	
13. Ducts, location & insulation level		R	
a. Sup: Main, Ret: Main, AH: Main		6	
b.		157	
c.			
14. Cooling Systems		kBtu/hr	
a. Central Unit		24.0	
		SEER2:15.00	
15. Heating Systems		kBtu/hr	
a. Electric Heat Pump		24.0	
		HSPF2:7.50	
16. Hot Water Systems			
a. ElectricTankless		Cap: 1 gallons	
		EF: 0.920	
b. Conservation features			
		None	
17. Credits		CF, Pstat	

Glass/Floor Area: 0.104	Total Proposed Modified Loads: 19.75
	Total Baseline Loads: 24.64

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.	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.
PREPARED BY: [Signature]	
DATE: 4-12-24	
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.	
OWNER/AGENT:	BUILDING OFFICIAL:
DATE:	DATE:

File Copy

Plans Examined

Compliance

- 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 5.90 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title: Dent - Inlaw Suite		Bedrooms: 1		Address type: Street Address								
Building Type: User		Conditioned Area: 787		Lot #: —								
Owner:		Total Stories: 1		Block/SubDivision: —								
Builder Home ID:		Worst Case: No		PlatBook: —								
Builder Name:		Rotate Angle: 0		Street:								
Permit Office:		Cross Ventilation:		County: Columbia								
Jurisdiction:		Whole House Fan:		City, State, Zip: , FL,								
Family Type: Detached		Terrain: Rural										
New/Existing: New (From Plans)		Shielding: Moderate/Rural										
Year Construct: 2024												
Comment:												

CLIMATE									
<input checked="" type="checkbox"/> Design Location	Tmy Site	Design Temp 97.5%	2.5%	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium	

BLOCKS			
<input checked="" type="checkbox"/> Number	Name	Area	Volume
___ 1	Block1	787	6296 cu ft

SPACES									
<input checked="" type="checkbox"/> Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	787	6296	Yes	2	1	Yes	Yes	Yes

FLOORS (Total Exposed Area = 787 sq.ft.)											
<input checked="" type="checkbox"/> #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet	
___ 1	Slab-On-Grade Edge Ins	Main	120	787 sqft	0	—	0.563	0 (ft)/0 (ft)	0.20	0.60	0.20

ROOF												
<input checked="" type="checkbox"/> #	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	830 ft²	132 ft²	Unf. Gal.	N	0.7	No	0.7	No	30	18.43

ATTIC						
<input checked="" type="checkbox"/> #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	787 ft²	N	N

CEILING (Total Exposed Area = 787 sq.ft.)								
<input checked="" type="checkbox"/> #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Single assembly, no airspace(Unvented)	Main	30.0	Blown	787.0ft²	0.018	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 960 sq.ft.)			
✓ #	Omt	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	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 2	E	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 3	S	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			
___ 4	W	Exterior	Frame - Wood	Main	13.0	30.0	0	8.0	0	240.0	0.084		0.23	0.75	0 %			

DOORS										(Total Exposed Area = 40 sq.ft.)			
✓ #	Omt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area		
___ 1	S	Exterior	Insulated	Main	None	0.46	6.00	0	6.00	8	40.0ft²		

WINDOWS															(Total Exposed Area = 82 sq.ft.)			
✓ #	Omt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen		
___ 1	N	1	Vinyl	Low-E Double	Y	0.26	0.20	N	N	4.0	1	4.00	1.00	1.5	1.3	None	None	
___ 2	E	2	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None	
___ 3	S	3	Vinyl	Low-E Double	Y	0.26	0.20	N	N	30.0	2	3.00	5.00	1.5	1.3	None	None	
___ 4	W	4	Vinyl	Low-E Double	Y	0.26	0.20	N	N	18.0	2	3.00	3.00	1.5	1.3	None	None	

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00030	619	33.94	63.72	0.1155	5.9	All	6296 cu ft

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

HEATING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal Entry---	HeatPump Power	Ducts Volt	Block Current
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	24.0		0.00	0.00	0.00 sys#1

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:15.0	24.0	720	0.75	sys#1	1

HOT WATER SYSTEM													
<input checked="" type="checkbox"/>	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length		
	1	Electric	Tankless	Exterior	0.92 (0.92)	1.00 gal	40 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														
<input checked="" type="checkbox"/>	Duct #	Supply Location	R-Value	Area	Return Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	Qn	RLF	HVAC # Heat Cool
	1	Main	6.0	157 ft²	Main	6.0	39 ft²	Prop. Leak Free	Main	---	---	0.030	0.50	1 1

TEMPERATURES														
Programable Thermostat: Y				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 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 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 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 type="checkbox"/> Dec		
<input checked="" type="checkbox"/>	Thermostat Schedule: HERS 2006 Reference													
	Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12
	Cooling (WD)	AM PM	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	80 78	80 78	80 78	80 78
	Cooling (WEH)	AM PM	78 80	78 80	78 80	78 80	78 80	78 80	78 80	78 80	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
	Heating (WEH)	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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD
ESTIMATED ENERGY PERFORMANCE INDEX* = 80

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

.,FL,

1. New construction or existing	New (From Plans)	10. Wall Types(960.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	960.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	1	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	787	11. Ceiling Types(787.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Single assembly, no ai (Unvented)	R=30.0	787.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.26	c. N/A		
SHGC:	SHGC=0.20	12. Roof(Metal, Unvent)	Deck R=30.0	830 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: Main, Ret: Main, AH: Main	6	157
c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	1.500 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.200	a. Central Unit	24.0	SEER2:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	24.0	HSPF2:7.50
SHGC(AVG):	N/A			
9. Floor Types	Insulation	16. Hot Water Systems		
a. Slab-On-Grade Edge Insulation	R= 0.0	a. ElectricTankless		Cap: 1 gallons
b. N/A	R=			EF: 0.920
c. N/A	R=	b. Conservation features		
				None
		17. 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.